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with Data for June 2016

August 2016

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August 2016 EPM Revision Notice – September 22, 2016

Table B.1, "Major Disturbances and Unusual Occurrences, Year-to-Date, 2016" overstated the durations of these disturbances and occurrences. This revision corrects these errors.

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

Preface

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

Background

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

Data sources

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

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		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	116,381	126,122	-7.7%	87,236	95,310	28,265	29,751	30	42	851	1,018	0	0
Petroleum Liquids	Utility Scale Facilities	944	1,036	-8.9%	698	777	204	205	NM	NM	36	43	0	0
Petroleum Coke	Utility Scale Facilities	1,014	812	24.8%	793	604	131	139	0	0	91	70	0	0
Natural Gas	Utility Scale Facilities	132,419	121,546	8.9%	64,027	57,061	60,031	56,626	705	652	7,656	7,207	0	0
Other Gas	Utility Scale Facilities	1,066	1,106	-3.7%	19	17	340	285	0	0	707	804	0	0
Nuclear	Utility Scale Facilities	67,175	68,546	-2.0%	37,000	35,150	30,175	33,396	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	23,152	20,089	15.2%	21,622	18,216	1,428	1,770	NM	NM	96	100	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	26,448	22,920	15.4%	3,264	2,474	20,606	17,794	260	289	2,317	2,362	0	0
... Wind	Utility Scale Facilities	16,364	13,477	21.4%	2,555	1,825	13,792	11,639	11	9	NM	NM	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	3,591	2,717	32.1%	230	172	3,294	2,482	63	60	NM	3	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,358	3,539	-5.1%	270	263	864	1,023	9	NM	2,215	2,252	0	0
... Other Biomass	Utility Scale Facilities	1,777	1,805	-1.6%	119	121	1,388	1,363	177	218	93	103	0	0
... Geothermal	Utility Scale Facilities	1,359	1,381	-1.6%	90	93	1,269	1,288	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-497	-398	25.0%	-409	-300	-88	-98	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,123	1,137	-1.2%	29	35	605	578	81	103	409	420	0	0
All Energy Sources	Utility Scale Facilities	369,225	362,917	1.7%	214,278	209,345	141,696	140,446	1,089	1,101	12,162	12,025	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	1,656	1,218	36.0%	0	0	0	0	581	505	153	118	922	595
Estimated Total Solar Photovoltaic	All Facilities	4,835	3,552	36.1%	220	157	2,892	2,114	644	564	NM	122	922	595
Estimated Total Solar	All Facilities	5,247	3,935	33.3%	230	172	3,294	2,482	644	564	NM	122	922	595
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	63,384	69,166	-8.4%	46,646	51,328	16,414	17,451	10	14	313	373	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,605	1,773	-9.5%	1,268	1,409	281	286	9	20	46	57	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	387	305	26.8%	308	233	52	55	0	0	27	17	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,011,265	926,723	9.1%	501,713	446,829	449,310	421,584	6,080	6,182	54,162	52,128	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,179	1,374	-14.2%	77	87	157	173	38	50	908	1,064	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	211	215	-1.9%	1	1	80	83	11	10	118	121	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	75	116	-35.2%	0	2	8	9	0	0	67	106	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	76,266	73,185	4.2%	753	637	24,985	24,293	4,380	4,153	46,148	44,103	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	64,563	70,540	-8.5%	46,723	51,415	16,572	17,624	48	64	1,221	1,437	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,816	1,988	-8.7%	1,270	1,410	362	369	20	30	164	179	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	463	422	9.7%	308	235	60	64	0	0	94	123	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,087,531	999,909	8.8%	502,466	447,466	474,295	445,877	10,460	10,335	100,310	96,231	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	187,140	168,632	11.0%	147,373	132,123	38,035	34,916	125	195	1,607	1,398	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	32,996	31,367	5.2%	20,934	20,737	10,513	8,698	242	544	1,307	1,388	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,018	1,211	-15.9%	W	883	W	149	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for June									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	June 2016	June 2015	Percentage Change	June 2016	June 2015	Percentage Change	June 2016	June 2015	Percentage Change
Residential	124,558	119,926	3.9%	15,860	15,511	2.2%	12.73	12.93	-1.5%
Commercial	120,181	119,112	0.9%	12,720	12,878	-1.2%	10.58	10.81	-2.1%
Industrial	80,189	83,772	-4.3%	5,636	5,947	-5.2%	7.03	7.10	-1.0%
Transportation	633	612	3.5%	61	62	-2.9%	9.58	10.22	-6.3%
All Sectors	325,562	323,422	0.7%	34,276	34,399	-0.4%	10.53	10.64	-1.0%

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 2016 and 2015

Net Generation and Consumption of Fuels for January through June														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	549,441	687,757	-20.1%	417,583	513,486	126,656	168,316	218	273	4,984	5,682	0	0
Petroleum Liquids	Utility Scale Facilities	6,124	11,196	-45.3%	4,277	6,113	1,581	4,614	51	147	215	322	0	0
Petroleum Coke	Utility Scale Facilities	5,884	5,428	8.4%	4,703	4,053	630	826	4	4	547	545	0	0
Natural Gas	Utility Scale Facilities	655,490	608,742	7.7%	313,322	281,017	293,868	282,743	3,836	3,614	44,464	41,368	0	0
Other Gas	Utility Scale Facilities	6,825	6,485	5.2%	56	130	2,006	1,798	0	0	4,763	4,557	0	0
Nuclear	Utility Scale Facilities	400,425	396,415	1.0%	214,264	207,475	186,161	188,941	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	151,064	135,142	11.8%	138,700	124,056	11,599	10,331	NM	NM	732	734	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	171,918	146,974	17.0%	21,564	18,462	134,974	112,706	1,602	1,666	13,777	14,141	0	0
... Wind	Utility Scale Facilities	116,220	94,132	23.5%	17,665	14,990	98,441	79,053	71	61	42	28	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	16,906	12,978	30.3%	1,085	826	15,507	11,867	299	270	15	15	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	19,712	20,810	-5.3%	1,448	1,413	5,179	5,924	32	30	13,053	13,443	0	0
... Other Biomass	Utility Scale Facilities	10,751	10,593	1.5%	835	703	8,050	7,930	1,199	1,305	666	655	0	0
... Geothermal	Utility Scale Facilities	8,328	8,462	-1.6%	531	530	7,798	7,932	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-2,359	-2,401	-1.7%	-1,888	-1,910	-471	-491	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	6,538	6,298	3.8%	275	186	3,379	3,287	539	581	2,344	2,244	0	0
All Energy Sources	Utility Scale Facilities	1,951,350	2,002,038	-2.5%	1,112,857	1,153,069	760,383	773,071	6,283	6,305	71,827	69,594	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	7,845	5,840	34.3%	0	0	0	0	2,902	2,490	732	579	4,212	2,771
Estimated Total Solar Photovoltaic	All Facilities	23,093	17,200	34.3%	1,037	771	13,896	10,304	3,201	2,760	747	593	4,212	2,771
Estimated Total Solar	All Facilities	24,752	18,817	31.5%	1,085	826	15,507	11,867	3,201	2,760	747	593	4,212	2,771
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	300,336	371,598	-19.2%	225,344	274,841	73,160	94,634	71	91	1,762	2,032	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	10,440	18,972	-45.0%	7,739	10,957	2,355	7,255	62	300	285	460	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,205	2,045	7.8%	1,786	1,545	268	347	1	1	151	153	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	4,910,712	4,551,656	7.9%	2,398,238	2,148,968	2,165,830	2,070,767	34,721	35,028	311,923	296,893	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	7,733	8,834	-12.5%	484	493	855	970	309	374	6,086	6,997	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,266	1,758	-28.0%	14	57	501	655	78	126	672	919	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	509	760	-33.1%	1	5	50	55	6	8	451	692	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	466,736	454,626	2.7%	4,990	3,868	149,190	151,016	28,636	26,512	283,919	273,230	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	308,069	380,432	-19.0%	225,828	275,335	74,015	95,604	379	464	7,848	9,028	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	11,705	20,730	-43.5%	7,753	11,014	2,856	7,910	139	427	957	1,379	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,714	2,805	-3.3%	1,787	1,550	317	402	7	9	602	845	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	5,377,448	5,006,283	7.4%	2,403,229	2,152,836	2,315,020	2,221,783	63,357	61,540	595,842	570,123	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through June									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	Percentage Change
Residential	653,220	682,890	-4.3%	81,157	85,438	-5.0%	12.42	12.51	-0.7%
Commercial	649,033	656,453	-1.1%	66,231	68,907	-3.9%	10.20	10.50	-2.9%
Industrial	461,011	471,714	-2.3%	30,161	32,063	-5.9%	6.54	6.80	-3.8%
Transportation	3,738	3,899	-4.1%	352	400	-12.0%	9.42	10.27	-8.3%
All Sectors	1,767,002	1,814,956	-2.6%	177,902	186,807	-4.8%	10.07	10.29	-2.1%

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

Table ES2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units, 2016 and 2015

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
Coal (1000 tons)	52,327	60,901	40.46	43.80	272	309	284,561	377,718	41.54	43.89
Petroleum Liquids (1000 barrels)	1,245	1,618	62.57	82.09	157	180	8,107	13,057	50.86	77.62
Petroleum Coke (1000 tons)	240	330	40.48	53.88	8	13	2,028	2,300	38.16	55.85
Natural Gas (1000 Mcf)	987,567	902,609	2.76	3.22	776	767	4,819,154	4,490,607	2.66	3.70

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
Coal (1000 tons)	39,864	46,233	41.78	44.47	193	221	215,853	283,922	42.48	44.35
Petroleum Liquids (1000 barrels)	907	1,234	63.78	82.96	107	116	6,018	8,023	50.36	75.67
Petroleum Coke (1000 tons)	220	262	38.34	49.60	6	10	1,729	1,919	33.56	53.63
Natural Gas (1000 Mcf)	481,119	424,467	2.98	3.59	416	400	2,306,484	2,061,928	2.94	3.94

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
Coal (1000 tons)	11,843	13,988	34.90	40.52	61	67	65,081	89,593	37.24	41.45
Petroleum Liquids (1000 barrels)	307	353	59.37	79.16	41	53	1,919	4,596	51.92	80.75
Petroleum Coke (1000 tons)	12	44	W	W	1	1	218	251	68.79	67.46
Natural Gas (1000 Mcf)	445,962	418,650	2.50	2.78	313	320	2,158,611	2,079,896	2.35	3.51

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
Coal (1000 tons)	0	9	--	W	0	2	19	71	W	62.09
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	585	513	W	W	3	3	4,029	2,764	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
Coal (1000 tons)	619	670	62.01	W	18	19	3,608	4,131	W	64.91
Petroleum Liquids (1000 barrels)	31	31	58.65	79.17	9	11	170	438	56.66	83.25
Petroleum Coke (1000 tons)	8	24	W	W	1	2	80	131	W	W
Natural Gas (1000 Mcf)	59,902	58,979	W	W	44	44	350,029	346,019	W	W

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

Table ES2.B. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Btus, 2016 and 2015

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
Coal	1,008,277	1,183,203	2.10	2.25	272	309	5,532,264	7,331,748	2.14	2.26
Petroleum Liquids	7,503	9,793	10.38	13.56	157	180	48,884	79,112	8.43	12.79
Petroleum Coke	6,894	9,380	1.41	1.89	8	13	56,979	65,213	1.36	1.97
Natural Gas	1,018,786	934,429	2.67	3.12	776	767	4,979,486	4,641,682	2.58	3.58
Fossil Fuels	2,041,461	2,136,806	2.40	2.66	950	960	10,617,613	12,117,755	2.36	2.80

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
Coal	775,117	905,477	2.15	2.27	193	221	4,223,322	5,536,689	2.17	2.27
Petroleum Liquids	5,502	7,498	10.51	13.66	107	116	36,622	48,915	8.28	12.41
Petroleum Coke	6,325	7,485	1.33	1.73	6	10	48,778	54,530	1.19	1.89
Natural Gas	496,865	439,136	2.88	3.47	416	400	2,384,014	2,128,641	2.85	3.82
Fossil Fuels	1,283,809	1,359,595	2.46	2.72	537	534	6,692,735	7,768,775	2.44	2.76

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
Coal	219,346	262,292	1.88	2.16	61	67	1,228,097	1,699,496	1.97	2.19
Petroleum Liquids	1,811	2,101	10.06	13.29	41	53	11,224	27,526	8.87	13.45
Petroleum Coke	348	1,237	W	W	1	1	6,010	7,031	2.50	2.41
Natural Gas	459,659	433,601	2.42	2.69	313	320	2,230,485	2,152,358	2.28	3.39
Fossil Fuels	681,164	699,231	W	W	362	374	3,475,815	3,886,411	W	W

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
Coal	0	213	--	W	0	2	434	1,579	W	2.81
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	599	522	W	W	3	3	4,125	2,805	W	W
Fossil Fuels	599	735	W	W	3	3	4,559	4,384	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
Coal	13,814	15,221	2.78	W	18	19	80,411	93,984	W	2.85
Petroleum Liquids	190	195	9.59	12.73	9	11	1,038	2,671	9.27	13.65
Petroleum Coke	222	659	W	W	1	2	2,192	3,651	W	W
Natural Gas	61,662	61,171	W	W	44	44	360,862	357,879	W	W
Fossil Fuels	75,888	77,245	W	W	48	49	444,504	458,185	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), 2006-June 2016
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
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 Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals															
2006	1,990,511	44,460	19,706	816,441	14,177	787,219	289,246	508	96,018	-6,558	12,974	4,064,702	N/A	N/A	N/A
2007	2,016,456	49,505	16,234	896,590	13,453	806,425	247,510	612	104,626	-6,896	12,231	4,156,745	N/A	N/A	N/A
2008	1,985,801	31,917	14,325	882,981	11,707	806,208	254,831	864	125,237	-6,288	11,804	4,119,388	N/A	N/A	N/A
2009	1,755,904	25,972	12,964	920,979	10,632	798,855	273,445	891	143,388	-4,627	11,928	3,950,331	N/A	N/A	N/A
2010	1,847,290	23,337	13,724	987,697	11,313	806,968	260,203	1,212	165,961	-5,501	12,855	4,125,060	N/A	N/A	N/A
2011	1,733,430	16,086	14,096	1,013,689	11,566	790,204	319,355	1,818	192,163	-6,421	14,154	4,100,141	N/A	N/A	N/A
2012	1,514,043	13,403	9,787	1,225,894	11,898	769,331	276,240	4,327	214,006	-4,950	13,787	4,047,765	N/A	N/A	N/A
2013	1,581,115	13,820	13,344	1,124,836	12,853	789,016	268,565	9,036	244,472	-4,681	13,588	4,065,964	N/A	N/A	N/A
2014	1,581,710	18,276	11,955	1,126,609	12,022	797,166	259,367	17,691	261,522	-6,174	13,461	4,093,606	9,536	24,785	27,227
2015	1,356,057	17,456	10,987	1,335,068	12,963	797,178	251,168	26,473	271,885	-5,094	13,239	4,087,381	12,141	35,373	38,614
Year 2014															
January	157,097	5,913	1,158	91,061	933	73,163	21,634	751	24,742	-290	1,092	377,255	530	1,227	1,281
February	143,294	1,847	916	75,942	817	62,639	17,396	835	20,166	-445	941	324,348	564	1,316	1,398
March	136,443	2,002	1,186	78,151	866	62,397	24,257	1,317	24,534	-421	1,093	331,823	769	1,904	2,086
April	109,281	911	842	76,782	854	56,385	25,440	1,487	24,989	-378	1,039	297,631	839	2,100	2,326
May	118,786	960	1,084	89,120	944	62,947	26,544	1,750	22,073	-601	1,118	324,724	927	2,384	2,676
June	137,577	889	1,131	98,468	969	68,138	25,744	1,923	22,541	-653	1,117	357,844	934	2,512	2,858
July	149,627	992	1,050	115,081	1,069	71,940	24,357	1,788	19,256	-545	1,163	385,780	975	2,501	2,763
August	148,452	1,014	1,036	122,348	1,135	71,129	19,807	1,879	17,141	-840	1,239	384,341	967	2,585	2,846
Sept	126,110	929	1,019	106,582	1,126	67,535	16,074	1,832	18,061	-542	1,159	339,887	888	2,463	2,721
October	111,296	908	609	97,683	1,082	62,391	17,159	1,717	21,002	-448	1,122	314,522	819	2,303	2,536
November	119,127	963	775	84,354	1,073	65,140	18,625	1,380	25,428	-531	1,161	317,495	673	1,904	2,052
December	124,620	947	1,149	91,038	1,153	73,363	22,329	1,032	21,590	-480	1,218	337,957	651	1,587	1,682
Year 2015															
January	132,498	1,929	1,041	101,811	1,293	74,270	24,631	1,218	22,431	-551	1,063	361,634	643	1,797	1,861
February	127,152	5,222	1,120	91,357	1,080	63,462	22,770	1,633	21,326	-456	910	335,576	704	2,175	2,337
March	108,537	1,079	728	99,130	1,058	64,547	24,884	2,240	21,966	-411	985	324,743	979	2,933	3,220
April	88,653	912	805	92,979	931	59,757	22,558	2,567	24,203	-214	1,067	294,218	1,094	3,287	3,661
May	104,795	1,019	922	101,919	1,016	65,833	20,210	2,602	23,868	-370	1,136	322,949	1,202	3,456	3,803
June	126,122	1,036	812	121,546	1,106	68,546	20,089	2,717	20,203	-398	1,137	362,917	1,218	3,552	3,935
July	139,598	1,205	1,142	141,365	1,274	71,412	21,114	2,754	20,967	-513	1,217	401,536	1,276	3,648	4,031
August	135,285	1,109	1,071	139,493	1,216	72,415	19,434	2,834	20,237	-626	1,234	393,704	1,260	3,699	4,094
Sept	118,485	1,023	1,037	123,230	1,212	66,466	16,242	2,358	20,412	-544	1,119	351,040	1,136	3,185	3,494
October	97,431	935	857	110,025	847	60,571	16,702	2,030	22,889	-443	1,128	312,972	1,018	2,839	3,048
November	87,852	1,015	697	102,566	848	60,264	19,381	1,896	26,312	-285	1,102	301,647	836	2,528	2,732
December	89,649	972	754	109,646	1,081	69,634	23,154	1,623	27,071	-281	1,140	324,445	774	2,274	2,398
Year 2016															
January	113,751	1,359	980	109,980	1,254	72,536	25,535	1,546	25,404	-312	1,120	353,153	845	2,306	2,392
February	92,900	1,235	911	98,368	1,139	65,638	24,257	2,423	26,624	-399	982	314,079	986	3,168	3,409
March	72,313	822	951	103,477	1,238	66,149	27,158	2,721	28,325	-379	1,062	303,837	1,315	3,779	4,036
April	72,224	798	1,049	100,032	1,146	62,365	25,567	2,981	26,527	-452	1,081	293,317	1,447	4,155	4,428
May	81,873	965	979	111,214	982	66,563	25,396	3,644	25,274	-321	1,171	317,739	1,596	4,851	5,240
June	116,381	944	1,014	132,419	1,066	67,175	23,152	3,591	22,857	-497	1,123	369,225	1,656	4,835	5,247
Year to Date															
2014	802,478	12,522	6,318	509,523	5,383	385,669	141,015	8,063	139,044	-2,788	6,399	2,013,625	4,563	11,443	12,626
2015	687,757	11,196	5,428	608,742	6,485	396,415	135,142	12,978	133,997	-2,401	6,298	2,002,038	5,840	17,200	18,817
2016	549,441	6,124	5,884	655,490	6,825	400,425	151,064	16,906	155,011	-2,359	6,538	1,951,350	7,845	23,093	24,752
Rolling 12 Months Ending in June															
2015	1,466,990	16,950	11,066	1,225,828	13,124	807,912	253,494	22,605	256,475	-5,786	13,361	4,082,019	10,813	30,543	33,418
2016	1,217,741	12,384	11,443	1,381,816	13,303	801,188	267,090	30,402	292,900	-5,052	13,479	4,036,694	14,146	41,265	44,548

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.
Other 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 2014 and prior years are final. Values for 2015 and 2016 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 distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.1.A. Net Generation from Renewable Sources: Total (All Sectors), 2006-June 2016
(Thousand Megawatthours)

	Generation at Utility Scale Facilities										Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
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 Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals													
2006	26,589	15	493	38,762	5,677	8,478	1,944	14,568	289,246	385,772	N/A	N/A	N/A
2007	34,450	16	596	39,014	6,158	8,304	2,063	14,637	247,510	352,747	N/A	N/A	N/A
2008	55,363	76	788	37,300	7,156	8,097	2,481	14,840	254,831	380,932	N/A	N/A	N/A
2009	73,886	157	735	36,050	7,924	8,058	2,461	15,009	273,445	417,724	N/A	N/A	N/A
2010	94,652	423	789	37,172	8,377	7,927	2,613	15,219	260,203	427,376	N/A	N/A	N/A
2011	120,177	1,012	806	37,449	9,044	7,354	2,824	15,316	319,355	513,336	N/A	N/A	N/A
2012	140,822	3,451	876	37,799	9,803	7,320	2,700	15,562	276,240	494,573	N/A	N/A	N/A
2013	167,840	8,121	915	40,028	10,658	7,186	2,986	15,775	268,565	522,073	N/A	N/A	N/A
2014	181,655	15,250	2,441	42,340	11,220	7,228	3,202	15,877	259,367	538,579	9,536	24,785	27,227
2015	190,927	23,232	3,241	42,358	11,233	7,415	3,184	16,767	251,168	549,527	12,141	35,373	38,614
Year 2014													
January	17,911	697	54	3,626	967	584	299	1,355	21,634	47,127	530	1,227	1,281
February	14,009	752	83	3,265	930	490	267	1,206	17,396	38,397	564	1,316	1,398
March	17,736	1,135	182	3,609	961	599	291	1,338	24,257	50,108	769	1,904	2,086
April	18,636	1,261	226	3,230	957	586	267	1,314	25,440	51,916	839	2,100	2,326
May	15,601	1,457	292	3,290	944	635	270	1,332	26,544	50,366	927	2,384	2,676
June	15,799	1,578	345	3,622	943	613	271	1,293	25,744	50,208	934	2,512	2,858
July	12,187	1,525	262	3,807	1,035	646	261	1,320	24,357	45,402	975	2,501	2,763
August	10,171	1,618	261	3,761	988	647	245	1,329	19,807	38,828	967	2,585	2,846
Sept	11,520	1,574	258	3,462	932	606	234	1,308	16,074	35,968	888	2,463	2,721
October	14,508	1,484	233	3,422	854	603	269	1,345	17,159	39,878	819	2,303	2,536
November	18,867	1,232	148	3,508	820	612	258	1,362	18,625	45,432	673	1,904	2,052
December	14,711	936	95	3,737	890	609	268	1,375	22,329	44,950	651	1,587	1,682
Year 2015													
January	15,262	1,154	64	3,794	983	617	299	1,475	24,631	48,280	643	1,797	1,861
February	14,959	1,471	162	3,418	822	519	261	1,346	22,770	45,729	704	2,175	2,337
March	15,331	1,954	287	3,447	895	558	278	1,456	24,884	49,090	979	2,933	3,220
April	17,881	2,194	374	3,244	913	593	233	1,338	22,558	49,328	1,094	3,287	3,661
May	17,221	2,255	347	3,366	940	626	249	1,466	20,210	46,680	1,202	3,456	3,803
June	13,477	2,334	383	3,539	940	625	240	1,381	20,089	43,009	1,218	3,552	3,935
July	13,686	2,371	383	3,913	987	679	266	1,436	21,114	44,835	1,276	3,648	4,031
August	13,073	2,439	395	3,834	976	667	260	1,427	19,434	42,505	1,260	3,699	4,094
Sept	13,916	2,049	309	3,469	891	615	240	1,281	16,242	39,012	1,136	3,185	3,494
October	16,390	1,822	208	3,300	933	624	279	1,363	16,702	41,620	1,018	2,839	3,048
November	19,663	1,691	204	3,404	947	631	288	1,380	19,381	47,589	836	2,528	2,732
December	20,067	1,499	124	3,629	1,006	660	290	1,418	23,154	51,849	774	2,274	2,398
Year 2016													
January	18,511	1,460	86	3,573	964	627	293	1,436	25,535	52,485	845	2,306	2,392
February	20,214	2,182	241	3,392	858	547	272	1,342	24,257	53,304	986	3,168	3,409
March	21,752	2,464	257	3,377	893	587	286	1,429	27,158	58,204	1,315	3,779	4,036
April	20,555	2,708	273	2,898	891	601	277	1,305	25,567	55,075	1,447	4,155	4,428
May	18,824	3,255	389	3,115	953	659	265	1,458	25,396	54,314	1,596	4,851	5,240
June	16,364	3,179	412	3,358	929	617	231	1,359	23,152	49,599	1,656	4,835	5,247
Year to Date													
2014	99,691	6,880	1,183	20,642	5,701	3,505	1,666	7,838	141,015	288,122	4,563	11,443	12,626
2015	94,132	11,360	1,617	20,810	5,493	3,539	1,561	8,462	135,142	282,116	5,840	17,200	18,817
2016	116,220	15,248	1,659	19,712	5,488	3,638	1,625	8,328	151,064	322,982	7,845	23,093	24,752
Rolling 12 Months Ending in June													
2015	176,096	19,730	2,875	42,507	11,012	7,262	3,097	16,500	253,494	532,574	10,813	30,543	33,418
2016	213,015	27,119	3,283	41,261	11,228	7,515	3,247	16,634	267,090	590,392	14,146	41,265	44,548

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 2014 and prior years are final. Values for 2015 and 2016 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 distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.A. Net Generation by Energy Source: Electric Utilities, 2006-June 2016
(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												
2006	1,471,421	31,269	9,634	282,088	30	425,341	261,864	15	6,573	-5,281	700	2,483,656
2007	1,490,985	33,325	7,395	313,785	141	427,555	226,734	11	8,943	-5,328	586	2,504,131
2008	1,466,395	22,206	5,918	320,190	46	424,256	229,645	17	11,291	-5,143	545	2,475,367
2009	1,322,092	18,035	7,182	349,166	96	417,275	247,198	28	14,589	-3,369	483	2,372,776
2010	1,378,028	17,258	8,807	392,616	52	424,843	236,104	101	17,826	-4,466	462	2,471,632
2011	1,301,107	11,688	9,428	414,843	29	415,298	291,413	216	21,717	-5,492	604	2,460,851
2012	1,146,480	9,892	5,664	504,958	0	394,823	252,936	639	27,378	-4,202	603	2,339,172
2013	1,188,452	9,446	9,522	501,427	798	406,114	243,040	943	31,474	-3,773	615	2,388,058
2014	1,173,073	10,696	9,147	501,414	112	419,871	238,185	1,218	33,278	-5,144	622	2,382,473
2015	1,016,989	10,590	8,283	614,474	205	416,680	230,130	1,658	35,641	-4,105	496	2,331,041
Year 2014												
January	115,862	2,445	949	41,208	13	38,847	19,673	53	3,286	-218	47	222,165
February	104,638	1,051	706	33,600	7	32,937	15,973	61	2,698	-361	34	191,345
March	97,957	1,037	953	35,116	9	32,612	22,423	91	3,296	-355	57	193,194
April	77,724	711	572	34,890	20	30,312	22,977	98	3,274	-301	52	170,329
May	89,103	709	833	41,226	12	33,760	23,933	114	2,632	-506	49	191,866
June	104,523	650	894	44,315	5	35,898	23,790	127	2,613	-557	53	212,311
July	112,875	711	792	50,296	7	38,031	22,624	131	2,261	-445	62	227,343
August	112,568	711	778	54,553	6	37,182	18,251	130	1,894	-740	60	225,392
Sept	94,482	711	750	46,260	5	35,296	14,895	126	2,277	-461	50	194,390
October	82,991	652	457	42,360	4	32,017	15,863	124	2,826	-351	48	176,990
November	87,064	643	577	37,477	9	34,552	17,369	91	3,473	-441	55	180,869
December	93,287	666	887	40,114	15	38,428	20,415	72	2,749	-409	56	196,279
Year 2015												
January	96,609	1,160	813	45,834	27	39,377	22,809	77	3,135	-460	28	209,407
February	92,630	2,067	879	43,203	25	33,478	21,402	101	2,883	-387	30	196,310
March	80,517	701	502	45,669	22	33,328	22,856	144	3,121	-319	20	186,561
April	67,605	697	565	42,880	20	31,053	20,179	163	3,160	-153	35	166,204
May	80,817	710	691	46,370	19	35,089	18,595	169	3,035	-292	39	185,242
June	95,310	777	604	57,061	17	35,150	18,216	172	2,302	-300	35	209,345
July	105,860	863	898	64,894	17	37,055	18,979	172	2,526	-413	56	230,908
August	101,770	817	827	63,431	21	38,482	17,924	175	2,558	-513	56	225,550
Sept	87,814	702	797	56,355	23	35,034	15,098	141	2,715	-477	50	198,251
October	72,989	685	618	49,676	12	31,886	15,300	124	3,159	-364	50	174,134
November	65,572	735	485	47,367	0	30,751	17,733	117	3,566	-218	45	166,154
December	69,497	675	606	51,733	NM	35,997	21,039	103	3,481	-210	54	182,976
Year 2016												
January	85,132	940	832	52,140	NM	37,985	23,212	104	3,195	-230	50	203,364
February	70,713	792	734	47,455	NM	34,281	21,915	160	3,611	-332	47	179,383
March	57,878	597	724	49,711	NM	34,445	24,913	177	3,734	-291	57	171,951
April	54,119	579	858	47,080	8	34,036	23,604	193	3,764	-367	42	163,916
May	62,505	671	763	52,908	10	36,517	23,435	222	3,141	-257	51	179,965
June	87,236	698	793	64,027	19	37,000	21,622	230	3,034	-409	29	214,278
Year to Date												
2014	589,807	6,602	4,906	230,355	66	204,366	128,770	545	17,799	-2,298	292	1,181,211
2015	513,486	6,113	4,053	281,017	130	207,475	124,056	826	17,636	-1,910	186	1,153,069
2016	417,583	4,277	4,703	313,322	56	214,264	138,700	1,085	20,479	-1,888	275	1,112,857
Rolling 12 Months Ending in June												
2015	1,096,752	10,206	8,294	552,077	175	422,980	233,471	1,499	33,115	-4,755	516	2,354,331
2016	921,085	8,755	8,933	646,779	NM	423,469	244,773	1,917	38,484	-4,083	585	2,290,829

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.
Other 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 2014 and prior years are final. Values for 2015 and 2016 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, 2006-June 2016
(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												
2006	498,316	10,396	8,409	452,329	4,223	361,877	24,390	493	58,853	-1,277	6,412	1,424,421
2007	507,406	13,645	6,942	500,967	3,901	378,869	19,109	601	65,150	-1,569	6,191	1,501,212
2008	502,442	8,021	6,737	482,182	3,154	381,952	23,451	847	84,928	-1,145	6,414	1,498,982
2009	419,031	6,306	4,288	491,839	2,962	381,579	24,308	863	100,997	-1,259	6,146	1,437,061
2010	449,709	5,117	3,497	508,774	2,915	382,126	22,351	1,105	119,851	-1,035	6,345	1,500,754
2011	416,783	3,655	3,431	511,447	2,911	374,906	26,117	1,511	140,442	-928	7,059	1,487,335
2012	354,076	2,757	1,758	627,833	2,984	374,509	20,923	3,525	156,539	-748	7,030	1,551,186
2013	379,270	3,761	1,780	527,522	3,524	382,902	22,018	7,782	181,263	-908	6,742	1,515,657
2014	395,701	6,789	1,410	531,758	3,246	377,295	19,861	16,086	196,723	-1,030	6,690	1,554,530
2015	326,949	6,104	1,607	626,464	3,450	380,498	19,676	24,232	204,777	-989	6,771	1,599,539
Year 2014												
January	40,054	3,281	109	41,761	253	34,316	1,837	681	18,727	-72	533	141,480
February	37,580	698	123	35,129	204	29,702	1,316	753	15,039	-84	472	120,930
March	37,333	880	129	35,402	206	29,785	1,715	1,196	18,569	-66	571	125,720
April	30,554	160	141	34,693	211	26,072	2,332	1,355	19,166	-77	516	115,124
May	28,635	203	125	40,419	271	29,187	2,477	1,596	16,817	-95	569	120,205
June	31,947	193	108	46,588	252	32,240	1,850	1,755	17,275	-96	565	132,678
July	35,597	236	128	56,400	276	33,909	1,641	1,618	14,183	-100	584	144,474
August	34,761	261	123	59,357	309	33,946	1,458	1,709	12,495	-101	594	144,913
Sept	30,580	171	145	52,430	293	32,238	1,091	1,670	13,267	-81	562	132,366
October	27,332	209	51	47,693	331	30,374	1,200	1,556	15,642	-97	566	124,857
November	31,053	268	88	39,234	292	30,589	1,155	1,260	19,441	-90	578	123,869
December	30,274	228	139	42,652	349	34,935	1,787	939	16,102	-71	580	127,913
Year 2015												
January	34,845	684	129	47,672	372	34,893	1,689	1,117	16,481	-92	584	138,374
February	33,509	2,995	132	41,036	308	29,984	1,252	1,499	15,967	-69	492	127,106
March	26,963	307	141	46,180	294	31,218	1,882	2,048	16,267	-92	521	125,727
April	20,218	171	140	43,198	243	28,705	2,240	2,347	18,514	-62	541	116,255
May	23,031	253	145	48,031	296	30,743	1,498	2,376	18,297	-78	572	125,163
June	29,751	205	139	56,626	285	33,396	1,770	2,482	15,312	-98	578	140,446
July	32,611	293	140	68,036	309	34,357	2,017	2,522	15,635	-101	604	156,424
August	32,373	243	143	67,602	327	33,933	1,426	2,596	14,987	-113	610	154,128
Sept	29,624	276	140	58,915	319	31,432	1,080	2,164	15,112	-67	550	139,546
October	23,452	209	150	52,755	194	28,685	1,301	1,862	17,155	-79	564	126,248
November	21,354	225	140	47,146	211	29,513	1,535	1,736	20,153	-67	565	122,511
December	19,220	244	68	49,268	292	33,637	1,984	1,484	20,896	-71	591	127,611
Year 2016												
January	27,671	364	42	49,632	365	34,551	2,190	1,411	19,539	-82	577	136,260
February	21,293	392	99	43,306	326	31,357	2,214	2,214	20,536	-66	516	122,187
March	13,510	198	138	45,598	366	31,704	2,100	2,491	22,017	-88	525	118,560
April	17,348	187	97	45,123	322	28,329	1,835	2,737	20,422	-84	553	116,868
May	18,571	236	124	50,178	286	30,046	1,832	3,360	19,641	-64	604	124,813
June	28,265	204	131	60,031	340	30,175	1,428	3,294	17,312	-88	605	141,696
Year to Date												
2014	206,104	5,415	736	233,992	1,396	181,303	11,528	7,336	105,594	-490	3,225	756,137
2015	168,316	4,614	826	282,743	1,798	188,941	10,331	11,867	100,838	-491	3,287	773,071
2016	126,656	1,581	630	293,868	2,006	186,161	11,599	15,507	119,467	-471	3,379	760,383
Rolling 12 Months Ending in June												
2015	357,913	5,989	1,501	580,509	3,649	384,933	18,664	20,618	191,968	-1,031	6,752	1,571,464
2016	285,289	3,071	1,412	637,589	3,658	377,719	20,943	27,871	223,406	-969	6,862	1,586,851

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.
Other 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 2014 and prior years are final. Values for 2015 and 2016 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, 2006-June 2016
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
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 Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals															
2006	1,310	228	7	4,355	0	0	93	0	1,619	0	758	8,371	N/A	N/A	N/A
2007	1,371	180	9	4,257	0	0	77	0	1,614	0	764	8,273	N/A	N/A	N/A
2008	1,261	136	6	4,188	0	0	60	0	1,555	0	720	7,926	N/A	N/A	N/A
2009	1,096	157	5	4,225	0	0	71	0	1,769	0	842	8,165	N/A	N/A	N/A
2010	1,111	117	7	4,725	3	0	80	5	1,709	0	834	8,592	N/A	N/A	N/A
2011	1,049	86	3	5,487	3	0	26	84	2,392	0	950	10,080	N/A	N/A	N/A
2012	883	191	6	6,603	0	0	28	148	2,397	0	1,046	11,301	N/A	N/A	N/A
2013	839	118	5	7,154	0	0	44	294	2,662	0	1,118	12,234	N/A	N/A	N/A
2014	595	247	9	7,227	0	0	38	371	2,862	0	1,171	12,520	4,349	4,720	4,720
2015	488	202	8	7,690	0	0	NM	554	2,835	0	1,211	13,029	5,024	5,578	5,578
Year 2014															
January	76	102	1	651	0	0	4	16	264	0	104	1,218	253	269	269
February	79	37	1	533	0	0	3	20	216	0	71	961	271	292	292
March	66	30	1	529	0	0	4	29	230	0	84	972	364	394	394
April	47	9	1	509	0	0	4	33	229	0	96	927	394	427	427
May	39	8	0	557	0	0	4	38	238	0	102	986	433	471	471
June	42	8	0	605	0	0	3	39	245	0	99	1,041	431	470	470
July	50	9	0	701	0	0	3	38	263	0	109	1,173	447	485	485
August	42	7	1	722	0	0	3	39	256	0	110	1,181	440	479	479
Sept	36	8	1	657	0	0	3	35	243	0	104	1,086	396	432	432
October	31	9	1	601	0	0	2	36	230	0	97	1,008	355	390	390
November	44	9	1	560	0	0	2	28	218	0	98	960	287	314	314
December	45	10	1	602	0	0	2	20	230	0	97	1,007	278	298	298
Year 2015															
January	53	26	1	619	0	0	NM	23	244	0	92	1,062	286	310	310
February	59	80	1	533	0	0	NM	32	215	0	83	1,005	312	344	344
March	51	12	1	616	0	0	NM	46	243	0	95	1,067	420	466	466
April	33	8	1	539	0	0	NM	54	227	0	102	968	462	516	516
May	35	11	0	655	0	0	NM	55	238	0	105	1,102	505	560	560
June	42	NM	0	652	0	0	NM	60	229	0	103	1,101	505	564	564
July	44	13	0	720	0	0	NM	58	248	0	110	1,196	528	586	586
August	35	12	1	732	0	0	NM	60	231	0	110	1,184	509	569	569
Sept	32	NM	1	674	0	0	NM	50	233	0	111	1,113	456	506	506
October	34	NM	1	638	0	0	NM	42	236	0	95	1,057	402	444	444
November	33	NM	1	650	0	0	NM	41	245	0	100	1,079	326	366	366
December	37	8	1	661	0	0	NM	34	246	0	104	1,095	313	347	347
Year 2016															
January	41	11	1	656	0	0	NM	29	231	0	91	1,065	342	371	371
February	46	13	1	577	0	0	NM	47	203	0	76	968	385	432	432
March	44	NM	1	626	0	0	NM	50	242	0	99	1,073	501	552	552
April	30	NM	0	621	0	0	NM	50	217	0	97	1,028	523	573	573
May	NM	NM	0	651	0	0	NM	60	213	0	96	1,059	570	629	629
June	30	NM	0	705	0	0	NM	63	197	0	81	1,089	581	644	644
Year to Date															
2014	348	194	4	3,384	0	0	23	175	1,422	0	556	6,105	2,147	2,322	2,322
2015	273	147	4	3,614	0	0	NM	270	1,396	0	581	6,305	2,490	2,760	2,760
2016	218	51	4	3,836	0	0	NM	299	1,303	0	539	6,283	2,902	3,201	3,201
Rolling 12 Months Ending in June															
2015	520	NM	9	7,457	0	0	NM	465	2,836	0	1,196	12,719	4,692	5,158	5,158
2016	NM	NM	8	7,912	0	0	NM	583	2,742	0	1,169	13,007	5,436	6,019	6,019

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.
Other 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 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.D. Net Generation by Energy Source: Industrial Sector, 2006-June 2016
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
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 Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals															
2006	19,464	2,567	1,656	77,669	9,923	0	2,899	0	28,972	0	5,103	148,254	N/A	N/A	N/A
2007	16,694	2,355	1,889	77,580	9,411	0	1,590	0	28,919	0	4,690	143,128	N/A	N/A	N/A
2008	15,703	1,555	1,664	76,421	8,507	0	1,676	0	27,462	0	4,125	137,113	N/A	N/A	N/A
2009	13,686	1,474	1,489	75,748	7,574	0	1,868	0	26,033	0	4,457	132,329	N/A	N/A	N/A
2010	18,441	844	1,414	81,583	8,343	0	1,668	2	26,574	0	5,214	144,082	N/A	N/A	N/A
2011	14,490	657	1,234	81,911	8,624	0	1,799	7	27,612	0	5,541	141,875	N/A	N/A	N/A
2012	12,603	563	2,359	86,500	8,913	0	2,353	14	27,693	0	5,108	146,107	N/A	N/A	N/A
2013	12,554	495	2,036	88,733	8,531	0	3,463	17	29,074	0	5,113	150,015	N/A	N/A	N/A
2014	12,341	544	1,389	86,209	8,664	0	1,282	16	28,659	0	4,978	144,083	943	960	960
2015	11,632	560	1,088	86,440	9,308	0	1,323	29	28,631	0	4,762	143,773	1,190	1,219	1,219
Year 2014															
January	1,105	85	100	7,441	667	0	120	1	2,466	0	408	12,391	51	52	52
February	998	61	86	6,680	606	0	104	1	2,212	0	363	11,112	54	55	55
March	1,087	56	103	7,105	651	0	114	1	2,439	0	382	11,937	77	78	78
April	955	32	128	6,690	624	0	127	2	2,319	0	375	11,251	84	85	85
May	1,009	40	126	6,918	662	0	130	2	2,385	0	397	11,667	92	94	94
June	1,065	37	130	6,960	711	0	100	2	2,409	0	400	11,814	93	95	95
July	1,105	37	129	7,685	786	0	89	2	2,549	0	408	12,790	97	99	99
August	1,081	35	134	7,716	820	0	96	2	2,496	0	476	12,856	96	98	98
Sept	1,013	39	123	7,234	828	0	86	2	2,275	0	444	12,044	88	89	89
October	942	39	101	7,028	748	0	93	1	2,303	0	411	11,667	83	84	84
November	966	42	108	7,083	772	0	99	1	2,297	0	429	11,797	67	68	68
December	1,015	42	121	7,670	790	0	125	1	2,510	0	484	12,757	61	62	62
Year 2015															
January	992	59	98	7,685	894	0	130	NM	2,572	0	359	12,791	66	NM	NM
February	955	80	107	6,586	747	0	113	NM	2,260	0	306	11,155	70	NM	NM
March	1,007	59	84	6,666	743	0	142	3	2,335	0	349	11,387	99	102	102
April	798	36	99	6,363	668	0	136	3	2,302	0	389	10,793	107	110	110
May	912	45	86	6,863	701	0	113	NM	2,298	0	421	11,442	119	NM	NM
June	1,018	43	70	7,207	804	0	100	3	2,359	0	420	12,025	118	122	122
July	1,083	36	104	7,716	948	0	113	NM	2,558	0	447	13,008	123	NM	NM
August	1,108	37	100	7,727	867	0	81	3	2,460	0	458	12,842	120	123	123
Sept	1,015	37	99	7,286	870	0	61	3	2,352	0	409	12,130	110	113	113
October	956	34	89	6,956	641	0	97	2	2,338	0	419	11,533	101	104	104
November	893	49	NM	7,402	637	0	109	NM	2,348	0	392	11,904	81	NM	NM
December	895	45	81	7,984	788	0	127	NM	2,449	0	392	12,763	75	NM	NM
Year 2016															
January	907	45	106	7,551	885	0	127	NM	2,439	0	402	12,464	80	NM	NM
February	848	NM	77	7,031	805	0	124	NM	2,273	0	342	11,540	88	NM	NM
March	881	NM	88	7,541	864	0	139	NM	2,332	0	382	12,253	124	NM	NM
April	726	25	93	7,207	816	0	123	NM	2,124	0	389	11,506	136	NM	NM
May	771	NM	93	7,478	685	0	123	NM	2,279	0	420	11,902	150	NM	NM
June	851	36	91	7,656	707	0	96	NM	2,314	0	409	12,162	153	NM	NM
Year to Date															
2014	6,219	311	672	41,793	3,920	0	694	8	14,230	0	2,325	70,172	451	459	459
2015	5,682	322	545	41,368	4,557	0	734	15	14,126	0	2,244	69,594	579	593	593
2016	4,984	215	547	44,464	4,763	0	732	15	13,762	0	2,344	71,827	732	747	747
Rolling 12 Months Ending in June															
2015	11,804	555	1,262	85,785	9,300	0	1,323	NM	28,556	0	4,897	143,505	1,070	NM	NM
2016	10,934	NM	NM	89,536	9,514	0	1,320	NM	28,267	0	4,862	146,007	1,343	NM	NM

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Other 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 2014 and prior years are final. Values for 2015 and 2016 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 distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.E. Net Generation by Energy Source: Residential Sector, 2014-June 2016
(Thousand Megawatthours)

	Distributed Generation
Period	**Estimated Distributed Solar Photovoltaic Generation**
Annual Totals	
2014	4,243
2015	5,927
Year 2014	
January	226
February	238
March	328
April	361
May	402
June	410
July	431
August	431
Sept	404
October	382
November	319
December	311
Year 2015	
January	291
February	322
March	461
April	524
May	578
June	595
July	625
August	631
Sept	570
October	514
November	429
December	386
Year 2016	
January	423
February	512
March	690
April	788
May	877
June	922
Year to Date	
2014	1,964
2015	2,771
2016	4,212
Rolling 12 Months Ending in June	
2015	5,050
2016	7,367

See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 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:
Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.3.A. Utility Scale Facility Net Generation
by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	9,210	9,240	-0.3%	161	200	8,693	8,688	114	112	242	240
Connecticut	2,682	3,021	-11.2%	NM	NM	2,603	2,944	35	34	41	39
Maine	926	777	19.1%	NM	NM	726	573	18	20	182	184
Massachusetts	3,249	2,698	20.4%	NM	63	3,153	2,574	51	48	NM	NM
New Hampshire	1,541	1,760	-12.5%	50	67	1,483	1,686	NM	NM	NM	NM
Rhode Island	650	828	-21.4%	1	NM	644	822	NM	NM	0	0
Vermont	163	156	4.2%	78	67	85	NM	NM	NM	0	0
Middle Atlantic	35,842	36,197	-1.0%	3,227	2,896	32,044	32,738	185	201	386	362
New Jersey	6,407	6,487	-1.2%	2	4	6,291	6,371	62	61	52	50
New York	11,461	11,533	-0.6%	3,218	2,884	8,058	8,467	104	106	82	77
Pennsylvania	17,974	18,178	-1.1%	NM	NM	17,696	17,900	NM	34	252	235
East North Central	51,964	50,692	2.5%	23,352	22,820	27,700	26,852	154	178	758	843
Illinois	16,370	16,657	-1.7%	1,072	878	15,055	15,518	35	40	208	221
Indiana	9,001	8,873	1.4%	7,872	7,689	862	872	25	18	242	293
Michigan	10,220	9,248	10.5%	7,296	6,812	2,734	2,231	65	95	124	111
Ohio	10,375	10,271	1.0%	2,321	2,972	7,973	7,221	NM	NM	68	69
Wisconsin	5,998	5,643	6.3%	4,791	4,469	1,076	1,009	NM	NM	115	149
West North Central	29,042	27,978	3.8%	25,066	24,700	3,560	2,856	63	54	353	368
Iowa	4,900	4,492	9.1%	3,884	3,461	818	829	NM	18	176	183
Kansas	4,551	4,275	6.5%	3,597	3,507	930	757	0	0	NM	NM
Minnesota	4,938	4,738	4.2%	4,031	4,019	772	573	NM	19	114	127
Missouri	7,538	7,730	-2.5%	7,210	7,514	306	199	18	15	NM	NM
Nebraska	3,195	3,268	-2.2%	2,923	3,061	245	174	NM	NM	25	32
North Dakota	3,005	2,812	6.9%	2,677	2,590	318	208	NM	NM	NM	14
South Dakota	915	663	38.1%	744	547	172	116	NM	NM	0	0
South Atlantic	75,855	74,213	2.2%	63,140	61,883	11,100	10,667	129	116	1,487	1,546
Delaware	873	721	21.1%	NM	NM	758	606	NM	NM	107	109
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	22,664	21,935	3.3%	20,289	20,111	1,936	1,371	NM	NM	431	448
Georgia	13,047	12,267	6.4%	11,318	10,091	1,354	1,765	NM	3	375	408
Maryland	3,199	3,583	-10.7%	NM	NM	3,127	3,526	45	37	25	18
North Carolina	12,201	12,802	-4.7%	11,003	11,839	1,031	801	27	23	141	139
South Carolina	8,619	8,621	0.0%	8,232	8,197	235	271	NM	NM	151	152
Virginia	8,649	8,160	6.0%	7,144	6,590	1,287	1,346	40	41	179	183
West Virginia	6,597	6,117	7.8%	5,146	5,048	1,372	980	0	0	78	90
East South Central	33,317	34,417	-3.2%	27,644	29,141	4,901	4,533	NM	NM	759	730
Alabama	12,618	13,906	-9.3%	8,492	9,948	3,765	3,623	0	0	361	335
Kentucky	6,870	7,148	-3.9%	6,764	7,014	56	80	0	0	49	53
Mississippi	6,309	6,053	4.2%	5,085	5,086	1,060	809	NM	NM	162	156
Tennessee	7,521	7,310	2.9%	7,303	7,092	19	20	NM	NM	187	186
West South Central	65,554	62,998	4.1%	24,028	23,016	34,931	33,760	99	87	6,496	6,135
Arkansas	5,998	5,355	12.0%	4,221	3,896	1,651	1,315	NM	NM	125	143
Louisiana	9,535	9,433	1.1%	5,814	5,672	1,126	1,185	NM	NM	2,580	2,561
Oklahoma	7,225	6,927	4.3%	4,392	4,498	2,754	2,347	NM	NM	75	81
Texas	42,796	41,284	3.7%	9,602	8,949	29,399	28,914	79	70	3,716	3,351
Mountain	33,364	34,121	-2.2%	26,734	27,152	6,280	6,597	47	48	303	324
Arizona	10,860	11,358	-4.4%	8,534	8,899	2,313	2,446	13	13	0	0
Colorado	4,807	4,464	7.7%	3,935	3,763	862	691	NM	NM	NM	NM
Idaho	1,368	1,419	-3.6%	990	970	334	408	0	0	45	41
Montana	2,199	2,643	-16.8%	1,124	1,161	1,073	1,480	0	0	NM	NM
Nevada	3,794	3,701	2.5%	2,957	2,979	804	686	14	15	19	21
New Mexico	3,205	2,828	13.3%	2,677	2,277	517	539	9	9	NM	NM
Utah	3,346	3,721	-10.1%	2,997	3,400	209	188	7	7	133	126
Wyoming	3,786	3,986	-5.0%	3,521	3,703	168	158	0	0	98	125
Pacific Contiguous	33,892	31,813	6.5%	20,159	16,684	12,149	13,442	238	247	1,346	1,441
California	19,260	18,865	2.1%	7,886	6,625	9,962	10,738	227	234	1,186	1,268
Oregon	4,687	4,553	3.0%	3,376	2,920	1,260	1,568	NM	NM	43	55
Washington	9,945	8,395	18.5%	8,897	7,139	928	1,136	NM	NM	117	117
Pacific Noncontiguous	1,184	1,247	-5.1%	766	853	337	313	48	45	34	37
Alaska	412	464	-11.2%	377	421	15	20	13	13	NM	NM
Hawaii	772	783	-1.4%	389	432	322	293	35	32	NM	26
U.S. Total	369,225	362,917	1.7%	214,278	209,345	141,696	140,446	1,089	1,101	12,162	12,025

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

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	52,924	54,618	-3.1%	1,287	2,083	49,520	50,157	629	717	1,488	1,662
Connecticut	17,370	18,736	-7.3%	NM	NM	16,939	18,279	187	212	218	223
Maine	6,194	6,174	0.3%	NM	NM	4,931	4,722	99	111	1,164	1,342
Massachusetts	15,977	14,436	10.7%	246	315	15,356	13,723	282	316	92	82
New Hampshire	9,166	11,128	-17.6%	505	1,277	8,620	9,798	27	38	NM	NM
Rhode Island	3,083	3,100	-0.5%	5	6	3,046	3,056	NM	38	0	0
Vermont	1,134	1,044	8.6%	505	462	628	580	NM	NM	0	0
Middle Atlantic	203,592	210,943	-3.5%	17,542	16,214	182,644	191,366	1,147	1,170	2,259	2,193
New Jersey	37,546	35,553	5.6%	15	3	36,895	34,938	335	335	301	277
New York	64,777	67,116	-3.5%	17,473	16,164	46,191	49,864	618	627	494	461
Pennsylvania	101,269	108,274	-6.5%	NM	NM	99,558	106,565	194	208	1,463	1,455
East North Central	282,076	302,233	-6.7%	123,028	136,558	153,188	159,690	1,013	1,037	4,845	4,948
Illinois	89,631	96,396	-7.0%	4,661	4,907	83,468	89,910	219	274	1,283	1,304
Indiana	49,282	52,734	-6.5%	40,957	44,815	6,698	6,286	130	108	1,497	1,525
Michigan	56,756	57,327	-1.0%	38,578	42,397	16,914	13,691	479	510	785	730
Ohio	55,155	62,989	-12.4%	14,603	18,950	40,046	43,552	72	52	434	435
Wisconsin	31,251	32,787	-4.7%	24,228	25,489	6,062	6,250	113	93	847	955
West North Central	157,484	162,573	-3.1%	129,883	138,217	25,219	21,949	372	320	2,011	2,086
Iowa	26,159	29,471	-11.2%	18,586	21,902	6,446	6,396	133	116	994	1,057
Kansas	23,372	21,985	6.3%	16,519	17,021	6,755	4,926	0	0	98	37
Minnesota	29,343	27,900	5.2%	23,019	22,079	5,541	5,003	135	114	647	704
Missouri	38,217	41,229	-7.3%	36,598	40,021	1,504	1,108	94	82	21	19
Nebraska	18,029	18,752	-3.9%	16,128	17,044	1,726	1,513	9	8	166	187
North Dakota	17,267	18,627	-7.3%	15,004	16,445	2,179	2,099	NM	NM	84	82
South Dakota	5,097	4,609	10.6%	4,029	3,704	1,068	905	NM	NM	0	0
South Atlantic	390,274	394,237	-1.0%	325,688	330,802	55,092	53,798	696	665	8,798	8,972
Delaware	3,907	3,928	-0.5%	NM	NM	3,269	3,302	NM	NM	604	596
District of Columbia	NM	33	NM	0	0	0	0	NM	33	0	0
Florida	113,916	114,966	-0.9%	103,031	106,194	8,268	6,163	45	29	2,572	2,581
Georgia	63,720	63,980	-0.4%	54,029	53,743	7,420	7,887	7	17	2,264	2,333
Maryland	17,118	18,934	-9.6%	11	12	16,728	18,535	245	233	134	154
North Carolina	62,651	64,846	-3.4%	56,772	60,180	5,001	3,794	141	127	737	744
South Carolina	47,900	48,294	-0.8%	45,542	46,500	1,446	931	NM	NM	903	860
Virginia	44,427	41,629	6.7%	37,280	33,515	5,785	6,786	215	220	1,147	1,108
West Virginia	36,605	37,626	-2.7%	28,991	30,631	7,176	6,400	0	0	438	596
East South Central	176,820	188,423	-6.2%	148,531	159,454	23,764	24,477	76	72	4,449	4,420
Alabama	69,250	74,030	-6.5%	48,617	52,601	18,492	19,295	0	0	2,141	2,134
Kentucky	38,332	43,188	-11.2%	37,813	42,642	226	227	0	0	294	319
Mississippi	32,126	32,390	-0.8%	26,251	26,650	4,928	4,834	NM	NM	937	896
Tennessee	37,112	38,815	-4.4%	35,851	37,561	119	121	65	62	1,077	1,071
West South Central	328,284	329,786	-0.5%	112,077	115,293	177,389	178,353	528	460	38,290	35,681
Arkansas	27,693	28,740	-3.6%	20,392	19,684	6,471	8,120	NM	NM	826	932
Louisiana	52,657	51,244	2.8%	31,404	31,224	5,387	5,660	91	92	15,775	14,268
Oklahoma	35,578	36,127	-1.5%	19,980	23,751	15,182	11,981	NM	NM	402	394
Texas	212,356	213,675	-0.6%	40,301	40,633	150,349	152,592	418	363	21,288	20,087
Mountain	170,153	175,826	-3.2%	133,887	141,575	34,398	32,524	230	232	1,638	1,495
Arizona	50,118	50,536	-0.8%	42,649	43,391	7,402	7,076	68	69	0	0
Colorado	26,379	25,208	4.6%	20,101	19,963	6,231	5,193	NM	21	31	31
Idaho	8,421	7,747	8.7%	5,582	5,206	2,560	2,296	0	0	279	245
Montana	13,218	15,029	-12.0%	5,856	6,367	7,352	8,652	0	0	10	9
Nevada	18,662	17,679	5.6%	14,186	13,644	4,282	3,860	66	59	128	116
New Mexico	15,109	15,378	-1.8%	11,039	12,097	3,998	3,215	46	47	NM	19
Utah	16,868	20,398	-17.3%	15,329	19,157	1,066	844	34	35	439	361
Wyoming	21,377	23,850	-10.4%	19,145	21,748	1,508	1,388	0	0	725	714
Pacific Contiguous	182,349	175,575	3.9%	115,974	107,461	57,259	58,879	1,321	1,365	7,795	7,870
California	92,362	90,100	2.5%	37,929	33,632	46,377	48,317	1,248	1,296	6,808	6,856
Oregon	31,130	29,368	6.0%	23,886	22,253	6,911	6,742	NM	51	282	322
Washington	58,857	56,107	4.9%	54,159	51,576	3,970	3,820	NM	18	705	693
Pacific Noncontiguous	7,392	7,822	-5.5%	4,959	5,413	1,908	1,878	271	267	253	265
Alaska	2,787	3,126	-10.8%	2,540	2,863	105	121	83	81	60	62
Hawaii	4,605	4,696	-2.0%	2,419	2,550	1,804	1,757	188	186	193	203
U.S. Total	1,951,350	2,002,038	-2.5%	1,112,857	1,153,069	760,383	773,071	6,283	6,305	71,827	69,594

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

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	122	9	NM	0	4	119	3	0	0	NM	3
Connecticut	-2	0	--	0	0	-2	0	0	0	0	0
Maine	4	3	16.7%	0	0	3	3	0	0	1	1
Massachusetts	119	NM	NM	0	0	118	0	0	0	NM	NM
New Hampshire	0	4	-96.4%	0	4	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	4,938	5,574	-11.4%	0	0	4,879	5,511	NM	NM	58	63
New Jersey	98	104	-5.2%	0	0	98	104	0	0	0	0
New York	149	250	-40.3%	0	0	122	223	0	0	27	27
Pennsylvania	4,690	5,221	-10.2%	0	0	4,659	5,185	NM	NM	31	36
East North Central	25,623	27,248	-6.0%	15,754	17,304	9,697	9,715	NM	12	167	216
Illinois	5,958	6,679	-10.8%	873	817	4,968	5,732	NM	NM	116	129
Indiana	6,575	6,903	-4.7%	6,312	6,421	258	476	4	4	NM	NM
Michigan	3,787	4,559	-16.9%	3,747	4,510	35	36	0	6	NM	7
Ohio	6,126	5,831	5.1%	1,679	2,345	4,436	3,470	NM	0	10	16
Wisconsin	3,177	3,275	-3.0%	3,144	3,211	0	0	NM	NM	33	63
West North Central	16,824	17,858	-5.8%	16,584	17,571	NM	NM	NM	14	228	269
Iowa	2,820	2,825	-0.2%	2,660	2,651	0	0	NM	9	150	165
Kansas	2,336	2,411	-3.1%	2,336	2,411	0	0	0	0	0	0
Minnesota	1,917	2,292	-16.4%	1,870	2,228	0	0	NM	0	46	63
Missouri	5,606	5,944	-5.7%	5,601	5,934	NM	NM	0	5	NM	NM
Nebraska	1,826	2,157	-15.4%	1,803	2,126	0	0	0	0	23	32
North Dakota	2,114	2,229	-5.1%	2,109	2,222	0	0	0	0	NM	7
South Dakota	204	0	--	204	0	0	0	0	0	0	0
South Atlantic	23,834	24,651	-3.3%	21,030	21,762	2,665	2,714	NM	NM	132	169
Delaware	7	35	-79.8%	0	0	7	35	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,006	4,318	-7.2%	3,894	4,100	89	195	0	0	NM	NM
Georgia	4,247	4,122	3.0%	4,225	4,105	0	0	0	0	NM	NM
Maryland	1,317	1,547	-14.9%	0	0	1,312	1,541	0	NM	6	6
North Carolina	4,300	4,919	-12.6%	4,192	4,782	NM	109	5	5	NM	NM
South Carolina	2,126	2,372	-10.3%	2,116	2,357	0	0	0	0	10	14
Virginia	1,582	1,583	0.0%	1,511	1,436	40	112	NM	NM	NM	NM
West Virginia	6,248	5,755	8.6%	5,092	4,982	1,137	722	0	0	19	52
East South Central	12,774	14,791	-13.6%	12,402	14,447	292	250	0	0	79	94
Alabama	3,046	4,426	-31.2%	3,038	4,420	0	0	0	0	NM	NM
Kentucky	5,663	6,408	-11.6%	5,663	6,408	0	0	0	0	0	0
Mississippi	592	632	-6.3%	300	382	292	250	0	0	0	0
Tennessee	3,472	3,324	4.4%	3,401	3,237	0	0	0	0	71	87
West South Central	17,819	18,998	-6.2%	8,507	9,584	9,270	9,366	0	0	NM	48
Arkansas	2,026	2,326	-12.9%	1,703	1,887	320	434	0	0	3	5
Louisiana	1,296	1,489	-13.0%	788	840	509	650	0	0	0	0
Oklahoma	1,537	2,446	-37.2%	1,303	2,230	197	173	0	0	NM	NM
Texas	12,959	12,736	1.7%	4,713	4,627	8,245	8,109	0	0	0	0
Mountain	13,989	15,963	-12.4%	12,840	14,333	1,036	1,508	0	0	112	122
Arizona	2,717	3,327	-18.3%	2,717	3,327	0	0	0	0	0	0
Colorado	2,646	2,829	-6.5%	2,637	2,820	NM	NM	0	0	NM	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	879	1,344	-34.6%	NM	NM	857	1,318	0	0	NM	NM
Nevada	217	235	-7.7%	124	147	94	88	0	0	0	0
New Mexico	2,020	1,824	10.8%	2,020	1,824	0	0	0	0	0	0
Utah	2,219	2,781	-20.2%	2,111	2,671	NM	NM	0	0	82	78
Wyoming	3,286	3,618	-9.2%	3,208	3,518	NM	NM	0	0	24	37
Pacific Contiguous	303	868	-65.1%	102	279	175	558	0	0	26	31
California	25	37	-32.9%	0	0	0	NM	0	0	25	28
Oregon	102	279	-63.6%	102	279	0	0	0	0	0	0
Washington	177	552	-68.0%	0	0	175	549	0	0	2	3
Pacific Noncontiguous	157	162	-3.2%	17	25	128	124	8	8	NM	NM
Alaska	35	50	-29.6%	17	25	NM	17	8	8	0	0
Hawaii	122	112	8.6%	0	0	118	107	0	0	NM	NM
U.S. Total	116,381	126,122	-7.7%	87,236	95,310	28,265	29,751	30	42	851	1,018

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

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

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	1,303	3,018	-56.8%	152	840	1,136	2,142	0	0	15	36
Connecticut	49	586	-91.7%	0	0	49	586	0	0	0	0
Maine	34	62	-45.2%	0	0	30	39	0	0	4	23
Massachusetts	1,068	1,529	-30.1%	0	0	1,057	1,516	0	0	NM	13
New Hampshire	152	840	-81.9%	152	840	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	26,466	39,137	-32.4%	0	0	26,087	38,736	NM	NM	377	396
New Jersey	612	1,136	-46.1%	0	0	612	1,136	0	0	0	0
New York	745	1,571	-52.6%	0	0	576	1,417	0	0	170	155
Pennsylvania	25,108	36,430	-31.1%	0	0	24,898	36,184	NM	NM	207	241
East North Central	126,665	160,606	-21.1%	81,033	100,698	44,414	58,452	56	82	1,162	1,375
Illinois	27,151	37,945	-28.4%	3,880	4,705	22,510	32,419	19	22	743	799
Indiana	34,411	39,885	-13.7%	32,374	37,259	2,010	2,598	20	20	NM	8
Michigan	19,517	26,030	-25.0%	19,244	25,727	213	203	15	38	45	62
Ohio	30,894	38,697	-20.2%	11,112	15,355	19,681	23,232	NM	NM	101	109
Wisconsin	14,691	18,048	-18.6%	14,424	17,651	0	0	NM	NM	266	397
West North Central	83,912	99,916	-16.0%	82,464	98,262	12	14	72	91	1,364	1,549
Iowa	10,883	16,015	-32.0%	9,984	15,023	0	0	53	55	846	937
Kansas	9,966	12,694	-21.5%	9,966	12,694	0	0	0	0	0	0
Minnesota	10,815	12,849	-15.8%	10,503	12,479	0	0	NM	NM	311	370
Missouri	29,458	32,485	-9.3%	29,411	32,420	12	14	18	35	NM	16
Nebraska	9,659	11,519	-16.2%	9,504	11,334	0	0	0	0	155	185
North Dakota	12,074	13,831	-12.7%	12,038	13,789	0	0	0	0	35	42
South Dakota	1,057	523	102.2%	1,057	523	0	0	0	0	0	0
South Atlantic	107,524	128,080	-16.0%	94,161	111,912	12,588	15,181	35	44	740	942
Delaware	220	430	-48.9%	0	0	220	430	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	16,346	21,189	-22.9%	15,958	20,596	275	477	0	0	NM	NM
Georgia	16,665	20,147	-17.3%	16,545	20,018	0	0	0	0	120	129
Maryland	5,871	8,287	-29.2%	0	0	5,834	8,221	0	NM	37	66
North Carolina	15,362	21,789	-29.5%	14,938	21,293	288	362	28	36	NM	NM
South Carolina	10,326	12,131	-14.9%	10,255	12,046	0	0	0	0	71	85
Virginia	8,299	8,494	-2.3%	7,877	7,669	219	628	NM	NM	196	189
West Virginia	34,436	35,612	-3.3%	28,590	30,290	5,751	5,064	0	0	95	259
East South Central	62,551	78,142	-20.0%	60,676	76,018	1,319	1,547	0	0	556	577
Alabama	14,671	19,927	-26.4%	14,594	19,849	0	0	0	0	77	78
Kentucky	31,630	38,435	-17.7%	31,630	38,435	0	0	0	0	0	0
Mississippi	2,255	3,531	-36.1%	935	1,984	1,319	1,547	0	0	0	0
Tennessee	13,996	16,249	-13.9%	13,516	15,749	0	0	0	0	479	500
West South Central	68,482	88,252	-22.4%	35,215	45,984	33,072	42,078	0	0	NM	190
Arkansas	8,861	10,921	-18.9%	6,934	8,876	1,900	2,017	0	0	27	29
Louisiana	5,330	7,697	-30.7%	3,755	3,976	1,575	3,721	0	0	0	0
Oklahoma	6,889	12,345	-44.2%	5,942	11,535	779	648	0	0	NM	162
Texas	47,402	57,290	-17.3%	18,584	21,598	28,818	35,692	0	0	0	0
Mountain	70,338	87,902	-20.0%	63,305	79,323	6,666	8,168	0	0	366	410
Arizona	12,782	17,268	-26.0%	12,782	17,268	0	0	0	0	0	0
Colorado	13,831	15,835	-12.7%	13,795	15,800	NM	NM	0	0	NM	NM
Idaho	30	36	-15.5%	0	0	0	0	0	0	30	36
Montana	5,947	7,400	-19.6%	NM	139	5,829	7,258	0	0	NM	NM
Nevada	753	949	-20.6%	374	587	379	362	0	0	0	0
New Mexico	7,912	9,587	-17.5%	7,912	9,587	0	0	0	0	0	0
Utah	11,149	15,813	-29.5%	10,856	15,491	NM	167	0	0	158	155
Wyoming	17,935	21,015	-14.7%	17,473	20,452	290	349	0	0	172	213
Pacific Contiguous	1,149	1,790	-35.8%	410	305	547	1,296	0	0	192	189
California	176	198	-11.0%	0	0	0	NM	0	0	176	171
Oregon	410	305	34.5%	410	305	0	0	0	0	0	0
Washington	562	1,287	-56.3%	0	0	547	1,269	0	0	15	18
Pacific Noncontiguous	1,051	916	14.8%	166	145	816	701	51	51	NM	NM
Alaska	294	290	1.2%	166	145	77	95	51	51	0	0
Hawaii	757	625	21.1%	0	0	739	607	0	0	NM	NM
U.S. Total	549,441	687,757	-20.1%	417,583	513,486	126,656	168,316	218	273	4,984	5,682

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

Table 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	22	NM	NM	4	NM	15	NM	NM	NM	NM	NM
Connecticut	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Maine	6	NM	NM	NM	NM	5	NM	NM	NM	NM	NM
Massachusetts	9	NM	NM	1	NM	NM	NM	NM	NM	NM	NM
New Hampshire	2	NM	NM	2	NM	NM	NM	NM	NM	NM	NM
Rhode Island	NM	NM	NM	1	NM	0	0	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	38	49	-23.0%	NM	NM	26	30	NM	NM	NM	6
New Jersey	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
New York	15	NM	NM	NM	NM	NM	NM	NM	NM	NM	6
Pennsylvania	20	24	-13.4%	NM	NM	20	23	NM	NM	NM	NM
East North Central	45	59	-23.4%	26	41	17	15	NM	NM	2	2
Illinois	4	5	-17.8%	1	NM	3	4	NM	NM	NM	NM
Indiana	9	20	-57.5%	8	19	NM	NM	NM	NM	1	2
Michigan	12	10	21.6%	11	9	0	0	NM	NM	1	NM
Ohio	19	23	-16.0%	5	11	14	11	NM	NM	NM	NM
Wisconsin	NM	NM	NM	NM	1	0	NM	NM	NM	NM	NM
West North Central	26	20	29.0%	24	18	NM	NM	NM	NM	NM	NM
Iowa	4	4	-1.5%	4	4	NM	NM	NM	NM	NM	NM
Kansas	3	1	88.3%	3	1	0	0	0	0	0	0
Minnesota	NM	NM	NM	3	2	NM	NM	NM	NM	NM	NM
Missouri	7	6	12.9%	7	6	0	0	NM	NM	0	0
Nebraska	3	NM	NM	3	NM	0	0	0	0	0	0
North Dakota	5	3	59.4%	5	3	0	0	NM	NM	NM	NM
South Dakota	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
South Atlantic	175	195	-10.0%	149	158	19	28	NM	NM	7	7
Delaware	NM	NM	NM	NM	NM	NM	3	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	70	76	-7.5%	68	74	NM	NM	0	0	NM	NM
Georgia	7	7	-1.2%	4	4	NM	NM	NM	NM	3	3
Maryland	12	20	-41.8%	NM	NM	11	18	NM	NM	NM	NM
North Carolina	21	21	1.6%	20	19	NM	NM	NM	NM	NM	NM
South Carolina	12	9	28.2%	10	8	NM	NM	NM	NM	1	1
Virginia	43	40	8.1%	36	34	6	5	NM	NM	NM	NM
West Virginia	9	18	-48.7%	9	18	0	0	0	0	0	0
East South Central	27	33	-17.8%	25	30	NM	NM	NM	NM	NM	NM
Alabama	5	6	-22.9%	3	4	NM	NM	0	0	NM	NM
Kentucky	8	9	-14.2%	8	9	0	0	0	0	0	0
Mississippi	1	1	-7.3%	1	1	0	0	0	0	0	0
Tennessee	14	17	-18.8%	13	16	NM	NM	NM	NM	NM	NM
West South Central	18	22	-18.5%	13	16	5	5	NM	NM	NM	NM
Arkansas	8	3	159.6%	5	2	2	0	0	0	0	1
Louisiana	1	7	-81.3%	1	7	0	0	0	0	0	0
Oklahoma	3	2	108.6%	3	2	0	0	NM	NM	NM	NM
Texas	6	11	-44.4%	3	6	3	5	NM	NM	NM	NM
Mountain	20	20	1.3%	16	17	3	2	NM	NM	NM	NM
Arizona	3	4	-27.5%	3	4	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	NM	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	2	NM	NM	NM	2	2	0	0	0	0
Nevada	3	3	-1.7%	2	2	0	0	0	0	0	0
New Mexico	NM	6	NM	NM	6	0	0	0	0	NM	NM
Utah	3	1	120.0%	2	1	NM	NM	0	0	NM	NM
Wyoming	6	3	116.0%	5	2	0	0	0	0	NM	NM
Pacific Contiguous	19	23	-16.8%	4	6	3	7	NM	NM	12	11
California	14	18	-21.3%	3	3	NM	5	NM	NM	11	10
Oregon	1	2	-54.7%	1	2	0	0	NM	NM	0	0
Washington	4	3	41.6%	NM	NM	3	2	NM	NM	NM	NM
Pacific Noncontiguous	553	605	-8.6%	428	479	115	114	NM	NM	NM	12
Alaska	53	56	-5.5%	50	52	0	0	NM	NM	3	3
Hawaii	500	549	-8.9%	379	427	115	114	0	0	NM	8
U.S. Total	944	1,036	-8.9%	698	777	204	205	NM	NM	36	43

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

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

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	230	1,888	-87.8%	27	162	173	1,615	25	80	NM	32
Connecticut	30	385	-92.2%	3	4	25	375	NM	NM	NM	NM
Maine	86	490	-82.4%	NM	NM	81	458	NM	NM	5	29
Massachusetts	88	749	-88.3%	11	52	62	649	14	48	NM	NM
New Hampshire	11	162	-93.5%	6	98	NM	52	NM	NM	NM	NM
Rhode Island	15	99	-84.9%	5	6	6	80	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	553	2,419	-77.1%	165	750	351	1,572	14	39	23	57
New Jersey	55	276	-80.1%	NM	NM	54	274	NM	NM	NM	NM
New York	362	1,684	-78.5%	164	749	165	845	13	38	19	52
Pennsylvania	136	459	-70.3%	1	NM	131	452	NM	NM	3	NM
East North Central	290	316	-8.3%	190	221	86	78	NM	NM	11	14
Illinois	40	28	43.6%	10	10	29	18	1	NM	NM	NM
Indiana	64	98	-35.4%	57	89	NM	NM	NM	NM	6	9
Michigan	68	60	11.8%	65	58	0	NM	NM	NM	NM	1
Ohio	102	110	-6.7%	45	48	55	59	NM	NM	2	NM
Wisconsin	16	19	-16.7%	NM	16	2	1	NM	NM	NM	NM
West North Central	124	169	-27.1%	116	158	NM	NM	NM	3	NM	NM
Iowa	25	23	10.0%	25	22	0	NM	NM	NM	NM	NM
Kansas	13	30	-58.8%	13	30	0	0	0	0	0	0
Minnesota	NM	25	NM	NM	14	NM	NM	NM	NM	NM	NM
Missouri	38	50	-23.3%	38	50	0	0	NM	NM	0	0
Nebraska	13	12	12.6%	13	12	0	0	0	0	0	0
North Dakota	16	14	14.5%	16	14	0	0	NM	NM	NM	NM
South Dakota	NM	16	NM	NM	16	NM	NM	NM	NM	0	0
South Atlantic	1,083	2,142	-49.4%	759	1,539	278	524	NM	NM	44	59
Delaware	42	135	-69.0%	NM	NM	41	132	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	209	340	-38.6%	196	324	NM	NM	0	0	11	13
Georgia	77	124	-37.5%	39	52	20	46	1	1	17	24
Maryland	110	171	-35.4%	6	7	103	146	NM	NM	NM	NM
North Carolina	168	340	-50.6%	136	310	28	22	NM	NM	NM	7
South Carolina	79	159	-50.4%	68	138	NM	12	NM	NM	9	9
Virginia	339	797	-57.5%	253	641	82	150	NM	NM	NM	5
West Virginia	59	76	-22.2%	59	64	0	12	0	0	0	0
East South Central	149	216	-31.0%	133	186	5	13	NM	NM	11	17
Alabama	31	59	-48.6%	17	33	5	12	0	0	9	14
Kentucky	52	68	-22.7%	52	68	0	0	0	0	0	0
Mississippi	8	10	-18.4%	8	9	0	0	0	0	1	1
Tennessee	57	78	-26.5%	56	76	0	NM	NM	NM	NM	NM
West South Central	87	163	-46.8%	56	100	27	57	NM	NM	3	5
Arkansas	24	32	-24.7%	16	22	6	6	0	0	2	4
Louisiana	10	62	-84.3%	8	51	2	10	0	0	0	0
Oklahoma	8	4	99.4%	8	4	0	0	NM	NM	NM	NM
Texas	45	65	-31.4%	24	23	20	41	NM	NM	NM	NM
Mountain	127	121	4.2%	112	109	11	9	NM	NM	NM	NM
Arizona	30	28	7.4%	30	28	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	NM	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	12	NM	NM	NM	9	7	0	0	0	0
Nevada	6	8	-29.7%	5	7	1	2	0	0	0	0
New Mexico	30	39	-22.2%	30	39	0	0	0	0	NM	NM
Utah	15	9	60.7%	14	9	NM	NM	0	0	NM	NM
Wyoming	29	20	40.9%	25	18	0	0	0	0	NM	3
Pacific Contiguous	59	66	-10.9%	18	19	7	19	NM	NM	32	27
California	47	54	-12.0%	16	16	NM	15	NM	NM	28	23
Oregon	NM	NM	NM	1	2	0	0	NM	NM	0	0
Washington	10	9	6.0%	NM	NM	4	4	NM	NM	5	4
Pacific Noncontiguous	3,424	3,697	-7.4%	2,701	2,868	639	719	3	3	NM	106
Alaska	362	386	-6.3%	341	362	0	0	NM	NM	20	23
Hawaii	3,062	3,311	-7.5%	2,360	2,506	639	719	2	2	NM	84
U.S. Total	6,124	11,196	-45.3%	4,277	6,113	1,581	4,614	51	147	215	322

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

Table 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	NM	NM	0	0	0	0	0	0	NM	NM
New Jersey	NM	0	--	0	0	0	0	0	0	NM	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	183	359	-49.0%	69	245	98	98	0	0	NM	NM
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	170	-100.0%	0	170	0	0	0	0	0	0
Michigan	77	80	-3.9%	62	72	0	0	0	0	NM	NM
Ohio	98	98	-0.1%	0	0	98	98	0	0	NM	0
Wisconsin	8	11	-26.9%	7	3	0	0	0	0	1	8
West North Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Iowa	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	214	138	55.3%	203	126	0	0	0	0	11	12
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	203	126	61.3%	203	126	0	0	0	0	0	0
Georgia	11	12	-8.6%	0	0	0	0	0	0	11	12
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	111	84	31.6%	111	84	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	111	84	31.6%	111	84	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	445	176	153.3%	410	148	0	0	0	0	35	NM
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	435	164	165.1%	410	148	0	0	0	0	NM	NM
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	11	NM	0	0	0	0	0	0	NM	11
Mountain	33	40	-18.2%	0	0	33	40	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	33	40	-18.2%	0	0	33	40	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,014	812	24.8%	793	604	131	139	0	0	91	70

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

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

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 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	113	94	20.0%	0	0	0	0	0	0	113	94
New Jersey	NM	NM	NM	0	0	0	0	0	0	NM	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	90	90	0.0%	0	0	0	0	0	0	90	90
East North Central	1,335	1,574	-15.2%	788	853	428	586	0	0	118	135
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	497	471	5.6%	497	471	0	0	0	0	0	0
Michigan	355	440	-19.3%	268	356	3	13	0	0	84	71
Ohio	429	573	-25.1%	0	0	425	573	0	0	NM	0
Wisconsin	53	90	-41.0%	23	26	0	0	0	0	30	64
West North Central	NM	35	NM	0	0	0	0	4	4	NM	NM
Iowa	NM	35	NM	0	0	0	0	4	4	NM	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,213	786	54.2%	1,146	695	0	0	0	0	67	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	1,146	695	64.8%	1,146	695	0	0	0	0	0	0
Georgia	67	91	-26.6%	0	0	0	0	0	0	67	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	559	563	-0.7%	559	563	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	559	563	-0.7%	559	563	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	2,419	2,137	13.2%	2,210	1,942	0	0	0	0	209	194
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	2,356	2,061	14.3%	2,210	1,942	0	0	0	0	146	119
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	63	75	-16.1%	0	0	0	0	0	0	63	75
Mountain	202	237	-14.7%	0	0	202	237	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	202	237	-14.7%	0	0	202	237	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	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	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	5,884	5,428	8.4%	4,703	4,053	630	826	4	4	547	545

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

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	5,083	4,719	7.7%	9	41	4,869	4,491	88	84	118	104
Connecticut	1,368	1,359	0.7%	0	0	1,293	1,286	34	34	40	39
Maine	311	133	133.7%	0	0	248	79	NM	NM	61	51
Massachusetts	2,380	1,909	24.7%	7	40	2,314	1,815	45	43	NM	NM
New Hampshire	396	514	-23.0%	2	0	390	510	NM	NM	NM	NM
Rhode Island	628	804	-21.8%	0	0	624	800	NM	NM	0	0
Vermont	0	0	-100.0%	0	0	0	0	0	0	0	0
Middle Atlantic	15,740	13,136	19.8%	1,303	1,153	14,170	11,734	99	90	168	159
New Jersey	4,103	3,193	28.5%	NM	NM	4,041	3,135	NM	16	34	34
New York	5,399	4,781	12.9%	1,291	1,144	4,016	3,558	67	62	26	17
Pennsylvania	6,237	5,162	20.8%	NM	NM	6,112	5,042	NM	NM	107	107
East North Central	10,081	7,378	36.6%	4,628	3,107	5,154	4,005	135	125	163	141
Illinois	1,566	899	74.1%	193	55	1,297	769	34	38	41	37
Indiana	1,839	1,178	56.1%	1,479	1,018	297	103	18	11	45	47
Michigan	2,746	1,728	58.9%	981	425	1,659	1,208	58	54	49	42
Ohio	2,392	2,481	-3.6%	603	593	1,769	1,876	NM	NM	NM	NM
Wisconsin	1,537	1,091	40.9%	1,371	1,016	131	49	NM	NM	NM	NM
West North Central	2,721	1,745	55.9%	2,244	1,502	386	188	36	30	55	26
Iowa	338	234	44.5%	315	220	NM	NM	NM	NM	NM	NM
Kansas	360	179	101.1%	338	169	0	0	0	0	NM	NM
Minnesota	862	645	33.7%	682	568	151	57	NM	NM	NM	NM
Missouri	827	481	72.0%	581	341	235	130	11	9	NM	NM
Nebraska	158	71	123.3%	156	71	0	0	NM	0	NM	0
North Dakota	56	NM	NM	54	NM	0	0	0	0	NM	NM
South Dakota	118	100	18.8%	118	100	0	0	0	0	0	0
South Atlantic	30,731	28,795	6.7%	24,587	23,082	5,787	5,380	59	45	298	287
Delaware	822	646	27.4%	NM	NM	739	557	0	0	77	85
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	15,121	14,111	7.2%	13,472	13,165	1,523	828	NM	NM	120	115
Georgia	5,353	4,654	15.0%	4,093	2,921	1,234	1,692	0	0	26	41
Maryland	432	481	-10.3%	0	0	381	443	43	34	NM	NM
North Carolina	3,269	3,444	-5.1%	2,786	3,040	463	392	2	1	NM	NM
South Carolina	1,511	1,709	-11.6%	1,301	1,471	202	235	NM	NM	7	NM
Virginia	4,080	3,595	13.5%	2,922	2,465	1,130	1,100	NM	NM	27	29
West Virginia	138	149	-7.9%	8	17	115	133	0	0	15	NM
East South Central	12,221	10,712	14.1%	7,478	6,317	4,565	4,236	NM	NM	165	147
Alabama	5,354	5,094	5.1%	1,530	1,417	3,742	3,598	0	0	82	79
Kentucky	820	406	102.0%	743	305	55	79	0	0	NM	21
Mississippi	4,878	4,322	12.9%	4,079	3,732	767	558	NM	NM	31	31
Tennessee	1,169	890	31.4%	1,125	863	NM	NM	NM	NM	32	16
West South Central	34,186	31,400	8.9%	11,870	9,969	16,577	16,128	93	82	5,646	5,221
Arkansas	2,241	1,318	70.0%	900	421	1,317	872	NM	NM	24	25
Louisiana	6,157	6,148	0.1%	3,451	3,613	527	424	NM	NM	2,163	2,096
Oklahoma	4,040	2,951	36.9%	2,772	1,747	1,253	1,192	NM	NM	NM	NM
Texas	21,748	20,983	3.6%	4,747	4,189	13,480	13,640	74	65	3,448	3,090
Mountain	10,503	10,122	3.8%	7,780	6,932	2,586	3,042	31	32	106	115
Arizona	4,167	4,134	0.8%	2,249	2,041	1,908	2,082	11	11	0	0
Colorado	1,380	1,029	34.1%	1,151	817	228	210	0	NM	NM	NM
Idaho	256	460	-44.2%	247	296	NM	161	0	0	NM	NM
Montana	78	68	15.1%	70	62	NM	NM	0	0	0	0
Nevada	2,808	2,808	0.0%	2,632	2,633	152	149	NM	5	18	21
New Mexico	882	792	11.5%	614	421	258	358	9	9	NM	NM
Utah	875	775	12.9%	806	658	27	74	7	7	36	37
Wyoming	55	56	-1.1%	NM	NM	NM	NM	0	0	44	49
Pacific Contiguous	10,948	13,308	-17.7%	3,929	4,736	5,937	7,421	150	151	931	999
California	9,003	10,548	-14.6%	2,850	3,164	5,098	6,254	142	142	913	988
Oregon	1,142	1,463	-21.9%	573	488	549	961	NM	NM	13	NM
Washington	803	1,296	-38.1%	505	1,084	290	206	NM	NM	5	5
Pacific Noncontiguous	206	231	-10.8%	200	223	0	0	NM	NM	NM	NM
Alaska	206	231	-10.8%	200	223	0	0	NM	NM	NM	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	132,419	121,546	8.9%	64,027	57,061	60,031	56,626	705	652	7,656	7,207

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

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

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	25,590	23,279	9.9%	76	126	24,425	22,087	472	481	617	586
Connecticut	8,825	7,860	12.3%	1	1	8,421	7,447	185	192	218	221
Maine	1,748	1,324	32.0%	0	0	1,426	1,025	NM	NM	311	287
Massachusetts	10,159	8,362	21.5%	67	123	9,774	7,927	244	248	75	64
New Hampshire	1,910	2,859	-33.2%	8	1	1,881	2,835	NM	NM	NM	NM
Rhode Island	2,947	2,873	2.6%	0	0	2,923	2,852	NM	NM	0	0
Vermont	0	1	-83.5%	0	1	0	0	0	0	0	0
Middle Atlantic	76,190	68,826	10.7%	5,667	5,282	69,037	62,101	569	532	917	910
New Jersey	20,124	16,471	22.2%	NM	NM	19,798	16,145	94	92	184	192
New York	25,986	25,703	1.1%	5,612	5,235	19,846	19,993	395	370	133	106
Pennsylvania	30,080	26,651	12.9%	NM	NM	29,393	25,963	79	71	601	613
East North Central	55,210	43,005	28.4%	23,952	18,463	29,528	22,984	777	734	953	824
Illinois	7,599	4,589	65.6%	734	160	6,451	3,969	195	249	219	211
Indiana	9,685	8,288	16.9%	7,640	6,673	1,689	1,273	92	68	263	274
Michigan	15,066	9,626	56.5%	4,380	2,239	10,055	6,870	337	289	295	229
Ohio	14,144	14,077	0.5%	3,278	3,436	10,773	10,560	67	49	NM	32
Wisconsin	8,715	6,424	35.7%	7,919	5,955	560	312	NM	79	148	78
West North Central	11,374	7,339	55.0%	9,312	6,236	1,602	822	201	143	259	138
Iowa	1,617	1,033	56.5%	1,487	949	NM	NM	NM	40	NM	44
Kansas	862	593	45.5%	770	559	0	0	0	0	92	NM
Minnesota	4,856	3,054	59.0%	3,965	2,663	735	277	NM	71	69	42
Missouri	2,902	1,981	46.5%	1,979	1,404	867	545	54	31	NM	NM
Nebraska	318	160	99.0%	306	158	0	0	NM	NM	NM	NM
North Dakota	257	151	70.4%	243	137	0	0	0	0	NM	NM
South Dakota	561	367	52.8%	561	367	0	0	0	0	0	0
South Atlantic	154,294	144,062	7.1%	125,439	118,513	26,820	23,606	301	253	1,734	1,690
Delaware	3,446	3,207	7.4%	NM	NM	2,952	2,684	0	0	469	503
District of Columbia	NM	33	NM	0	0	0	0	NM	33	0	0
Florida	76,874	74,358	3.4%	69,880	70,008	6,286	3,643	NM	NM	682	693
Georgia	26,274	23,511	11.7%	19,269	15,823	6,797	7,458	0	0	208	230
Maryland	2,225	1,774	25.4%	0	0	1,955	1,548	227	199	43	26
North Carolina	19,943	18,029	10.6%	17,581	16,066	2,259	1,898	5	3	98	63
South Carolina	6,891	6,972	-1.2%	5,609	6,254	1,238	703	NM	NM	36	13
Virginia	18,040	15,729	14.7%	13,028	10,265	4,832	5,301	NM	NM	177	161
West Virginia	570	447	27.4%	46	77	501	370	0	0	22	NM
East South Central	61,071	55,972	9.1%	37,853	32,323	22,182	22,668	74	70	961	910
Alabama	27,076	26,964	0.4%	8,180	7,291	18,357	19,163	0	0	539	510
Kentucky	3,998	2,120	88.6%	3,666	1,776	219	221	0	0	113	124
Mississippi	24,754	22,472	10.2%	20,946	18,990	3,602	3,282	NM	NM	194	191
Tennessee	5,243	4,416	18.7%	5,061	4,268	NM	NM	63	60	116	85
West South Central	170,826	166,148	2.8%	53,708	48,037	83,647	87,370	486	423	32,985	30,319
Arkansas	8,067	8,177	-1.3%	3,430	1,952	4,470	6,035	NM	NM	166	189
Louisiana	33,706	30,361	11.0%	17,481	17,436	3,157	1,374	91	92	12,976	11,459
Oklahoma	17,566	15,842	10.9%	11,913	10,258	5,562	5,508	NM	NM	76	73
Texas	111,486	111,768	-0.3%	20,884	18,390	70,457	74,452	378	327	19,767	18,598
Mountain	46,839	39,005	20.1%	36,093	28,136	9,867	10,049	159	171	719	649
Arizona	15,010	11,623	29.1%	9,609	6,291	5,345	5,274	56	57	0	0
Colorado	6,499	4,643	40.0%	5,497	3,507	993	1,122	0	NM	NM	NM
Idaho	1,547	1,423	8.7%	888	804	620	596	0	0	39	23
Montana	411	304	35.1%	372	278	NM	NM	0	0	0	0
Nevada	13,753	12,659	8.6%	12,813	11,713	788	805	25	27	127	114
New Mexico	4,856	4,401	10.4%	2,894	2,328	1,891	2,008	44	46	NM	19
Utah	4,397	3,640	20.8%	3,976	3,199	188	212	34	35	199	193
Wyoming	367	313	17.1%	NM	NM	NM	NM	0	0	320	292
Pacific Contiguous	52,823	59,569	-11.3%	19,988	22,405	26,760	31,055	793	806	5,282	5,304
California	42,238	49,202	-14.2%	13,929	16,493	22,406	26,710	738	757	5,166	5,243
Oregon	5,963	6,224	-4.2%	2,512	2,382	3,341	3,768	NM	40	69	34
Washington	4,621	4,144	11.5%	3,547	3,530	1,013	578	NM	NM	47	27
Pacific Noncontiguous	1,275	1,536	-17.0%	1,235	1,497	0	0	NM	NM	NM	37
Alaska	1,275	1,536	-17.0%	1,235	1,497	0	0	NM	NM	NM	37
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	655,490	608,742	7.7%	313,322	281,017	293,868	282,743	3,836	3,614	44,464	41,368

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

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	58	47	22.2%	0	0	0	0	0	0	58	47
New Jersey	NM	NM	NM	0	0	0	0	0	0	NM	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	44	32	37.9%	0	0	0	0	0	0	44	32
East North Central	414	445	-7.0%	19	17	192	175	0	0	203	253
Illinois	NM	32	NM	0	0	0	0	0	0	NM	32
Indiana	155	202	-23.3%	NM	NM	0	0	0	0	151	200
Michigan	149	124	19.5%	15	15	133	109	0	0	0	0
Ohio	83	87	-4.4%	0	0	59	65	0	0	NM	21
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	NM	NM	NM	0	0	0	0	0	0	NM	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	31	26	22.0%	0	0	0	0	0	0	31	26
Delaware	29	23	27.2%	0	0	0	0	0	0	29	23
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-17.2%	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	2	3	-17.9%	0	0	0	0	0	0	2	3
East South Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Alabama	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	31.6%	0	0	0	0	0	0	1	1
West South Central	366	370	-1.0%	0	0	115	76	0	0	251	294
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	133	189	-29.3%	0	0	0	0	0	0	133	189
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	233	181	28.5%	0	0	115	76	0	0	118	105
Mountain	30	40	-25.9%	0	0	1	3	0	0	29	38
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	2	-47.1%	0	0	1	2	0	0	0	0
Nevada	0	1	-100.0%	0	0	0	1	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	29	38	-23.3%	0	0	0	0	0	0	29	38
Pacific Contiguous	155	166	-7.0%	0	0	32	31	0	0	123	135
California	123	135	-9.0%	0	0	0	0	0	0	123	135
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	32	31	1.4%	0	0	32	31	0	0	0	0
Pacific Noncontiguous	NM	NM	NM	0	0	0	0	0	0	NM	NM
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	NM	NM	NM	0	0	0	0	0	0	NM	NM
U.S. Total	1,066	1,106	-3.7%	19	17	340	285	0	0	707	804

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

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

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 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	362	298	21.4%	0	0	0	0	0	0	362	298
New Jersey	93	80	17.2%	0	0	0	0	0	0	93	80
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	269	218	22.9%	0	0	0	0	0	0	269	218
East North Central	2,581	2,422	6.6%	56	130	1,193	1,001	0	0	1,332	1,291
Illinois	193	164	18.2%	0	0	4	0	0	0	190	163
Indiana	1,022	1,028	-0.6%	NM	NM	0	0	0	0	1,007	1,017
Michigan	839	787	6.7%	40	119	799	667	0	0	0	0
Ohio	526	443	18.6%	0	0	391	334	0	0	135	110
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	NM	NM	NM	0	0	0	0	0	0	NM	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	141	102	39.0%	0	0	0	0	0	0	141	102
Delaware	129	85	51.2%	0	0	0	0	0	0	129	85
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2	2	23.5%	0	0	0	0	0	0	2	2
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	10	15	-29.6%	0	0	0	0	0	0	10	15
East South Central	24	27	-8.1%	0	0	0	0	0	0	24	27
Alabama	NM	21	NM	0	0	0	0	0	0	NM	21
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	7	6	22.4%	0	0	0	0	0	0	7	6
West South Central	2,426	2,418	0.3%	0	0	603	596	0	0	1,823	1,822
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,181	1,208	-2.2%	0	0	0	0	0	0	1,181	1,208
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,245	1,210	2.9%	0	0	603	596	0	0	642	614
Mountain	236	217	8.5%	0	0	7	11	0	0	229	206
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	6	9	-31.7%	0	0	6	9	0	0	0	0
Nevada	1	2	-69.1%	0	0	1	2	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	229	206	11.1%	0	0	0	0	0	0	229	206
Pacific Contiguous	997	954	4.5%	0	0	203	190	0	0	794	765
California	794	765	3.9%	0	0	0	0	0	0	794	765
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	203	190	6.9%	0	0	203	190	0	0	0	0
Pacific Noncontiguous	32	25	30.5%	0	0	0	0	0	0	32	25
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	32	25	30.5%	0	0	0	0	0	0	32	25
U.S. Total	6,825	6,485	5.2%	56	130	2,006	1,798	0	0	4,763	4,557

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

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	2,528	2,885	-12.4%	0	0	2,528	2,885	0	0	0	0
Connecticut	1,157	1,512	-23.5%	0	0	1,157	1,512	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	471	476	-1.0%	0	0	471	476	0	0	0	0
New Hampshire	900	897	0.3%	0	0	900	897	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	11,467	13,833	-17.1%	0	0	11,467	13,833	0	0	0	0
New Jersey	1,980	2,966	-33.2%	0	0	1,980	2,966	0	0	0	0
New York	3,107	3,844	-19.2%	0	0	3,107	3,844	0	0	0	0
Pennsylvania	6,380	7,022	-9.1%	0	0	6,380	7,022	0	0	0	0
East North Central	13,364	13,022	2.6%	2,333	1,597	11,031	11,424	0	0	0	0
Illinois	8,137	8,435	-3.5%	0	0	8,137	8,435	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,904	2,168	34.0%	2,333	1,597	570	570	0	0	0	0
Ohio	1,461	1,557	-6.1%	0	0	1,461	1,557	0	0	0	0
Wisconsin	863	863	0.0%	0	0	863	863	0	0	0	0
West North Central	4,109	3,968	3.6%	3,780	3,536	329	432	0	0	0	0
Iowa	329	432	-23.7%	0	0	329	432	0	0	0	0
Kansas	860	863	-0.3%	860	863	0	0	0	0	0	0
Minnesota	1,216	1,050	15.8%	1,216	1,050	0	0	0	0	0	0
Missouri	866	864	0.3%	866	864	0	0	0	0	0	0
Nebraska	838	760	10.4%	838	760	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	17,804	17,360	2.6%	16,572	16,105	1,232	1,255	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	2,614	2,597	0.6%	2,614	2,597	0	0	0	0	0	0
Georgia	2,884	2,929	-1.6%	2,884	2,929	0	0	0	0	0	0
Maryland	1,232	1,255	-1.8%	0	0	1,232	1,255	0	0	0	0
North Carolina	3,715	3,697	0.5%	3,715	3,697	0	0	0	0	0	0
South Carolina	4,749	4,289	10.7%	4,749	4,289	0	0	0	0	0	0
Virginia	2,610	2,593	0.7%	2,610	2,593	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,657	7,020	-5.2%	6,657	7,020	0	0	0	0	0	0
Alabama	3,564	3,620	-1.6%	3,564	3,620	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	705	971	-27.5%	705	971	0	0	0	0	0	0
Tennessee	2,388	2,428	-1.7%	2,388	2,428	0	0	0	0	0	0
West South Central	6,066	5,950	1.9%	2,479	2,382	3,587	3,568	0	0	0	0
Arkansas	1,315	1,317	-0.2%	1,315	1,317	0	0	0	0	0	0
Louisiana	1,164	1,065	9.3%	1,164	1,065	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,587	3,568	0.5%	0	0	3,587	3,568	0	0	0	0
Mountain	2,839	2,849	-0.3%	2,839	2,849	0	0	0	0	0	0
Arizona	2,839	2,849	-0.3%	2,839	2,849	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	2,340	1,660	41.0%	2,340	1,660	0	0	0	0	0	0
California	1,526	1,640	-6.9%	1,526	1,640	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	814	20	NM	814	20	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	67,175	68,546	-2.0%	37,000	35,150	30,175	33,396	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 1.9.B. Utility Scale Facility Net Generation from Nuclear Energy

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	15,589	16,505	-5.6%	0	0	15,589	16,505	0	0	0	0
Connecticut	7,474	9,015	-17.1%	0	0	7,474	9,015	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	2,865	2,074	38.1%	0	0	2,865	2,074	0	0	0	0
New Hampshire	5,250	5,416	-3.1%	0	0	5,250	5,416	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	75,802	77,914	-2.7%	0	0	75,802	77,914	0	0	0	0
New Jersey	15,513	16,528	-6.1%	0	0	15,513	16,528	0	0	0	0
New York	19,658	21,777	-9.7%	0	0	19,658	21,777	0	0	0	0
Pennsylvania	40,631	39,609	2.6%	0	0	40,631	39,609	0	0	0	0
East North Central	77,312	76,526	1.0%	13,121	12,264	64,191	64,261	0	0	0	0
Illinois	48,154	47,751	0.8%	0	0	48,154	47,751	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	16,650	15,778	5.5%	13,121	12,264	3,529	3,514	0	0	0	0
Ohio	7,644	7,783	-1.8%	0	0	7,644	7,783	0	0	0	0
Wisconsin	4,864	5,214	-6.7%	0	0	4,864	5,214	0	0	0	0
West North Central	24,294	21,354	13.8%	21,752	18,762	2,541	2,592	0	0	0	0
Iowa	2,541	2,592	-2.0%	0	0	2,541	2,592	0	0	0	0
Kansas	5,306	3,298	60.9%	5,306	3,298	0	0	0	0	0	0
Minnesota	6,832	5,458	25.2%	6,832	5,458	0	0	0	0	0	0
Missouri	4,087	5,227	-21.8%	4,087	5,227	0	0	0	0	0	0
Nebraska	5,527	4,779	15.7%	5,527	4,779	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	103,160	100,006	3.2%	96,070	92,981	7,090	7,025	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	15,374	14,319	7.4%	15,374	14,319	0	0	0	0	0	0
Georgia	16,380	16,818	-2.6%	16,380	16,818	0	0	0	0	0	0
Maryland	7,090	7,025	0.9%	0	0	7,090	7,025	0	0	0	0
North Carolina	20,938	20,372	2.8%	20,938	20,372	0	0	0	0	0	0
South Carolina	28,175	27,091	4.0%	28,175	27,091	0	0	0	0	0	0
Virginia	15,203	14,380	5.7%	15,203	14,380	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	37,545	38,997	-3.7%	37,545	38,997	0	0	0	0	0	0
Alabama	20,147	20,222	-0.4%	20,147	20,222	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	4,361	5,667	-23.0%	4,361	5,667	0	0	0	0	0	0
Tennessee	13,037	13,108	-0.5%	13,037	13,108	0	0	0	0	0	0
West South Central	36,693	35,701	2.8%	15,745	15,058	20,949	20,643	0	0	0	0
Arkansas	7,795	7,239	7.7%	7,795	7,239	0	0	0	0	0	0
Louisiana	7,950	7,819	1.7%	7,950	7,819	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	20,949	20,643	1.5%	0	0	20,949	20,643	0	0	0	0
Mountain	16,196	16,244	-0.3%	16,196	16,244	0	0	0	0	0	0
Arizona	16,196	16,244	-0.3%	16,196	16,244	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	13,835	13,168	5.1%	13,835	13,168	0	0	0	0	0	0
California	8,976	9,765	-8.1%	8,976	9,765	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	4,859	3,403	42.8%	4,859	3,403	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	400,425	396,415	1.0%	214,264	207,475	186,161	188,941	0	0	0	0

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

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	452	706	-36.0%	61	86	367	583	NM	NM	NM	NM
Connecticut	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Maine	220	308	-28.6%	0	0	197	272	0	0	NM	NM
Massachusetts	NM	84	NM	NM	NM	NM	67	NM	NM	NM	NM
New Hampshire	65	181	-64.0%	NM	32	NM	149	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Middle Atlantic	2,399	2,403	-0.2%	1,968	1,781	426	616	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,257	2,163	4.4%	1,963	1,775	290	382	NM	NM	NM	NM
Pennsylvania	139	237	-41.3%	NM	NM	134	231	0	0	0	0
East North Central	437	376	16.3%	382	319	NM	NM	NM	NM	NM	NM
Illinois	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
Indiana	39	33	18.5%	39	33	0	0	0	0	0	0
Michigan	135	116	16.3%	124	105	NM	NM	0	0	NM	NM
Ohio	47	NM	NM	31	20	NM	NM	0	0	0	0
Wisconsin	206	176	17.3%	185	158	NM	NM	0	0	NM	NM
West North Central	863	1,057	-18.4%	842	1,039	NM	NM	0	0	NM	NM
Iowa	72	62	16.1%	71	61	NM	NM	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	49	42	16.4%	NM	NM	NM	NM	0	0	NM	NM
Missouri	98	264	-63.0%	98	264	0	0	0	0	0	0
Nebraska	102	86	18.5%	102	86	0	0	0	0	0	0
North Dakota	194	196	-0.8%	194	196	0	0	0	0	0	0
South Dakota	347	406	-14.5%	347	406	0	0	0	0	0	0
South Atlantic	927	1,025	-9.5%	769	794	112	191	NM	NM	45	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	NM	NM	NM	NM	NM	0	0	0	0	0	0
Georgia	215	224	-4.2%	212	221	NM	NM	0	0	NM	NM
Maryland	69	152	-54.8%	0	0	69	152	0	0	0	0
North Carolina	274	306	-10.4%	269	300	NM	NM	NM	NM	NM	NM
South Carolina	156	173	-10.3%	149	167	NM	NM	NM	NM	0	0
Virginia	93	64	43.9%	87	58	NM	NM	0	0	NM	NM
West Virginia	107	89	21.0%	NM	NM	28	22	0	0	42	35
East South Central	1,036	1,270	-18.4%	1,036	1,269	NM	NM	0	0	0	0
Alabama	356	488	-27.0%	356	488	0	0	0	0	0	0
Kentucky	223	195	14.4%	222	194	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	457	588	-22.1%	457	588	0	0	0	0	0	0
West South Central	738	857	-14.0%	650	750	88	107	0	0	0	0
Arkansas	298	266	11.7%	295	265	NM	NM	0	0	0	0
Louisiana	83	103	-19.2%	0	0	83	103	0	0	0	0
Oklahoma	238	395	-39.8%	238	395	0	0	0	0	0	0
Texas	119	93	28.6%	117	90	NM	NM	0	0	0	0
Mountain	3,166	2,943	7.6%	3,019	2,831	146	112	NM	NM	0	0
Arizona	640	602	6.4%	640	602	0	0	0	0	0	0
Colorado	179	154	16.2%	159	138	NM	NM	NM	NM	0	0
Idaho	850	745	14.1%	742	665	109	81	0	0	0	0
Montana	1,028	1,076	-4.5%	1,015	1,065	NM	NM	0	0	0	0
Nevada	197	198	-0.4%	194	195	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	59	49	20.6%	58	48	NM	NM	0	0	0	0
Wyoming	199	109	83.4%	198	108	NM	NM	0	0	0	0
Pacific Contiguous	13,023	9,333	39.5%	12,791	9,231	229	101	NM	NM	0	0
California	3,286	1,545	112.7%	3,108	1,484	176	60	NM	NM	0	0
Oregon	2,564	2,026	26.5%	2,539	2,004	NM	NM	0	0	0	0
Washington	7,172	5,761	24.5%	7,145	5,743	NM	NM	0	0	0	0
Pacific Noncontiguous	113	120	-6.3%	105	115	3	2	0	0	NM	NM
Alaska	103	113	-8.9%	103	113	0	0	0	0	0	0
Hawaii	NM	NM	NM	NM	NM	3	2	0	0	NM	NM
U.S. Total	23,152	20,089	15.2%	21,622	18,216	1,428	1,770	NM	NM	96	100

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

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	4,144	3,969	4.4%	585	508	3,336	3,238	NM	NM	219	220
Connecticut	250	223	12.1%	NM	NM	230	205	0	0	0	0
Maine	1,858	1,877	-1.0%	0	0	1,642	1,660	0	0	215	217
Massachusetts	537	471	14.0%	127	100	403	365	NM	NM	NM	NM
New Hampshire	795	790	0.6%	200	183	595	607	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	702	606	15.9%	239	207	463	399	0	0	0	0
Middle Atlantic	16,105	14,197	13.4%	11,948	10,426	4,118	3,735	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	14,456	12,719	13.7%	11,902	10,384	2,515	2,299	NM	NM	NM	NM
Pennsylvania	1,629	1,463	11.4%	NM	NM	1,583	1,422	0	0	0	0
East North Central	2,717	2,601	4.5%	2,327	2,228	290	271	NM	NM	98	100
Illinois	72	64	13.1%	NM	NM	43	39	NM	NM	0	0
Indiana	201	162	24.1%	201	162	0	0	0	0	0	0
Michigan	857	850	0.9%	779	778	64	57	0	0	NM	NM
Ohio	285	217	31.0%	154	94	131	123	0	0	0	0
Wisconsin	1,301	1,307	-0.5%	1,166	1,170	NM	53	0	0	83	84
West North Central	5,140	5,708	-10.0%	5,008	5,589	114	108	0	0	19	10
Iowa	456	469	-2.8%	453	466	NM	NM	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	304	289	5.1%	187	183	99	96	0	0	19	10
Missouri	835	707	18.0%	835	707	0	0	0	0	0	0
Nebraska	636	623	2.0%	636	623	0	0	0	0	0	0
North Dakota	983	1,167	-15.7%	983	1,167	0	0	0	0	0	0
South Dakota	1,914	2,443	-21.6%	1,914	2,443	0	0	0	0	0	0
South Atlantic	9,542	7,062	35.1%	7,873	5,488	1,328	1,225	NM	NM	332	342
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	121	108	11.4%	121	108	0	0	0	0	0	0
Georgia	1,937	1,423	36.1%	1,918	1,406	NM	NM	0	0	NM	NM
Maryland	1,031	958	7.7%	0	0	1,031	958	0	0	0	0
North Carolina	3,121	2,173	43.6%	3,075	2,135	NM	NM	NM	NM	NM	NM
South Carolina	1,714	1,245	37.6%	1,665	1,205	NM	NM	NM	NM	0	0
Virginia	843	472	78.7%	798	433	NM	NM	0	0	NM	NM
West Virginia	776	682	13.8%	296	200	170	160	0	0	310	322
East South Central	11,996	11,510	4.2%	11,992	11,506	NM	NM	0	0	0	0
Alabama	5,675	5,205	9.0%	5,675	5,205	0	0	0	0	0	0
Kentucky	1,833	1,740	5.4%	1,828	1,736	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	4,489	4,565	-1.7%	4,489	4,565	0	0	0	0	0	0
West South Central	4,969	3,784	31.3%	4,320	3,244	649	540	0	0	0	0
Arkansas	2,208	1,588	39.0%	2,187	1,577	NM	NM	0	0	0	0
Louisiana	608	512	18.9%	0	0	608	512	0	0	0	0
Oklahoma	1,463	1,254	16.7%	1,463	1,254	0	0	0	0	0	0
Texas	690	431	60.3%	671	413	NM	NM	0	0	0	0
Mountain	17,145	16,938	1.2%	16,444	16,307	696	628	NM	NM	0	0
Arizona	3,725	3,266	14.0%	3,725	3,266	0	0	0	0	0	0
Colorado	1,025	838	22.2%	904	721	117	114	NM	NM	0	0
Idaho	5,085	4,734	7.4%	4,616	4,330	468	404	0	0	0	0
Montana	5,331	5,917	-9.9%	5,249	5,834	82	82	0	0	0	0
Nevada	989	1,349	-26.6%	969	1,330	NM	NM	0	0	0	0
New Mexico	77	67	14.3%	77	67	0	0	0	0	0	0
Utah	361	339	6.4%	357	335	NM	NM	0	0	0	0
Wyoming	553	428	29.3%	548	423	NM	NM	0	0	0	0
Pacific Contiguous	78,514	68,518	14.6%	77,449	67,945	1,054	569	NM	NM	0	0
California	14,612	6,467	125.9%	13,903	6,218	698	246	NM	NM	0	0
Oregon	20,416	19,121	6.8%	20,251	18,964	165	158	0	0	0	0
Washington	43,486	42,929	1.3%	43,295	42,763	191	166	0	0	0	0
Pacific Noncontiguous	791	856	-7.7%	753	816	10	13	0	0	NM	NM
Alaska	740	803	-7.8%	740	803	0	0	0	0	0	0
Hawaii	50	53	-5.9%	NM	NM	10	13	0	0	NM	NM
U.S. Total	151,064	135,142	11.8%	138,700	124,056	11,599	10,331	NM	NM	732	734

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

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	883	794	11.3%	87	67	693	624	15	16	87	86
Connecticut	75	69	9.3%	NM	0	75	69	0	0	0	0
Maine	352	298	18.1%	0	0	256	202	8	9	87	86
Massachusetts	184	187	-1.6%	6	6	175	179	NM	NM	NM	NM
New Hampshire	173	159	8.9%	30	30	140	125	NM	4	0	0
Rhode Island	20	22	-7.5%	0	0	20	21	NM	NM	0	0
Vermont	79	59	33.2%	50	31	28	27	NM	NM	0	0
Middle Atlantic	1,104	1,054	4.7%	12	10	964	909	53	65	75	70
New Jersey	176	172	2.5%	12	10	133	129	32	32	NM	NM
New York	501	438	14.3%	0	0	460	397	18	20	23	22
Pennsylvania	427	444	-3.9%	0	0	371	383	NM	13	52	48
East North Central	1,831	1,732	5.7%	242	215	1,459	1,363	8	21	121	133
Illinois	646	571	13.1%	NM	NM	644	570	NM	NM	0	0
Indiana	343	327	5.0%	30	26	307	293	NM	2	5	5
Michigan	498	463	7.5%	127	109	316	286	3	18	51	50
Ohio	147	154	-4.8%	NM	NM	119	124	NM	NM	25	27
Wisconsin	198	217	-9.1%	81	75	74	90	NM	NM	41	51
West North Central	4,397	3,180	38.2%	1,520	912	2,812	2,205	13	6	51	57
Iowa	1,329	932	42.6%	833	525	488	397	NM	3	6	7
Kansas	989	818	20.9%	60	63	929	755	0	0	0	0
Minnesota	855	670	27.6%	216	128	591	489	4	NM	45	50
Missouri	81	69	16.1%	NM	4	70	66	7	0	NM	NM
Nebraska	267	192	39.1%	21	17	245	174	NM	NM	0	0
North Dakota	630	342	84.4%	312	134	318	208	0	0	0	0
South Dakota	245	157	56.5%	74	41	172	116	0	0	0	0
South Atlantic	2,133	1,999	6.7%	209	204	1,068	906	44	44	813	845
Delaware	13	14	-1.4%	NM	NM	11	11	NM	NM	NM	2
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	369	438	-15.6%	24	32	194	240	NM	2	149	164
Georgia	430	396	8.6%	7	NM	118	72	NM	3	304	320
Maryland	105	95	10.8%	NM	NM	91	84	NM	NM	11	7
North Carolina	591	385	53.5%	21	NM	453	265	19	16	98	103
South Carolina	192	196	-1.9%	38	37	26	29	0	0	128	129
Virginia	339	372	-8.9%	117	131	82	101	19	20	120	119
West Virginia	93	104	-10.8%	0	0	93	104	0	0	0	0
East South Central	561	534	4.9%	11	8	43	46	NM	NM	507	481
Alabama	290	268	8.3%	NM	NM	23	25	0	0	266	243
Kentucky	38	40	-3.3%	10	8	NM	NM	0	0	28	32
Mississippi	132	126	4.7%	0	0	NM	NM	0	0	131	125
Tennessee	101	101	-0.4%	0	0	19	19	NM	NM	82	81
West South Central	5,814	5,121	13.5%	102	168	5,285	4,508	NM	NM	422	440
Arkansas	108	119	-9.1%	0	0	10	7	NM	NM	97	111
Louisiana	232	236	-1.7%	0	0	8	8	0	0	224	228
Oklahoma	1,406	1,136	23.8%	80	130	1,302	981	0	0	25	25
Texas	4,068	3,631	12.1%	23	38	3,965	3,512	NM	NM	75	76
Mountain	2,733	2,102	30.0%	231	188	2,449	1,865	15	15	38	34
Arizona	467	421	11.0%	59	55	405	364	NM	NM	0	0
Colorado	618	468	32.1%	7	8	608	457	NM	NM	NM	NM
Idaho	257	208	23.3%	NM	10	220	166	0	0	37	32
Montana	150	86	75.5%	15	8	134	76	0	0	NM	NM
Nevada	567	454	24.7%	NM	0	554	445	8	10	NM	NM
New Mexico	287	197	45.7%	27	16	259	181	NM	NM	0	0
Utah	176	104	68.5%	20	22	156	82	0	0	0	0
Wyoming	211	164	28.8%	98	70	113	94	0	0	0	0
Pacific Contiguous	6,860	6,291	9.0%	834	691	5,745	5,295	85	94	197	211
California	5,049	4,793	5.3%	239	254	4,669	4,391	82	91	58	58
Oregon	875	778	12.5%	162	147	681	580	NM	2	30	48
Washington	937	720	30.1%	433	291	394	324	NM	NM	109	105
Pacific Noncontiguous	132	111	19.2%	16	11	88	73	21	21	6	6
Alaska	15	15	4.0%	8	7	NM	NM	NM	4	NM	0
Hawaii	117	96	21.6%	9	NM	84	70	18	16	6	6
U.S. Total	26,448	22,920	15.4%	3,264	2,474	20,606	17,794	260	289	2,317	2,362

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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 June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	5,365	5,269	1.8%	447	447	4,262	4,009	85	102	572	713
Connecticut	446	394	13.3%	NM	0	445	385	0	9	0	0
Maine	2,277	2,230	2.1%	0	0	1,665	1,468	42	52	570	711
Massachusetts	1,070	1,049	2.0%	41	40	1,006	990	21	17	NM	NM
New Hampshire	1,021	1,036	-1.4%	139	154	867	862	16	19	0	0
Rhode Island	119	125	-5.1%	0	0	115	122	NM	NM	0	0
Vermont	431	434	-0.9%	265	252	164	181	NM	NM	0	0
Middle Atlantic	7,364	7,464	-1.3%	57	49	6,533	6,646	345	366	430	403
New Jersey	929	887	4.6%	57	49	701	667	170	171	NM	NM
New York	3,337	3,413	-2.2%	0	0	3,097	3,185	104	115	136	113
Pennsylvania	3,099	3,163	-2.0%	0	0	2,735	2,795	71	80	293	289
East North Central	15,739	14,805	6.3%	1,845	1,855	12,979	11,971	103	121	813	858
Illinois	6,288	5,724	9.8%	9	7	6,276	5,715	NM	NM	0	0
Indiana	3,211	2,608	23.1%	172	151	2,999	2,415	9	10	30	32
Michigan	3,551	3,751	-5.3%	975	1,023	2,179	2,292	63	94	334	342
Ohio	1,119	1,076	4.0%	15	17	940	878	NM	NM	159	178
Wisconsin	1,571	1,646	-4.5%	674	656	584	671	24	13	290	306
West North Central	32,124	27,627	16.3%	10,900	8,921	20,877	18,336	75	63	272	307
Iowa	10,592	9,304	13.8%	6,637	5,443	3,901	3,800	17	16	36	46
Kansas	7,212	5,359	34.6%	464	440	6,744	4,917	0	0	5	NM
Minnesota	6,312	6,029	4.7%	1,432	1,199	4,634	4,554	27	23	220	253
Missouri	673	588	14.5%	23	23	625	548	22	16	NM	NM
Nebraska	1,876	1,659	13.1%	142	138	1,726	1,513	8	8	0	0
North Dakota	3,898	3,427	13.7%	1,709	1,324	2,179	2,099	0	0	9	NM
South Dakota	1,562	1,261	23.9%	494	355	1,068	905	0	0	0	0
South Atlantic	12,196	11,240	8.5%	1,222	948	5,896	5,139	249	242	4,829	4,912
Delaware	70	71	-0.4%	4	4	56	55	NM	NM	7	8
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,264	2,516	-10.0%	249	143	1,061	1,391	18	15	936	966
Georgia	2,415	2,226	8.5%	38	7	596	377	5	15	1,775	1,827
Maryland	633	568	11.4%	5	5	557	486	17	16	53	61
North Carolina	2,948	1,976	49.1%	104	4	2,221	1,316	99	82	524	574
South Carolina	1,135	1,118	1.5%	210	215	156	175	0	0	769	728
Virginia	1,977	1,971	0.3%	612	569	495	545	105	110	766	747
West Virginia	753	794	-5.1%	0	0	753	794	0	0	0	0
East South Central	3,191	3,169	0.7%	51	44	254	245	NM	NM	2,885	2,878
Alabama	1,633	1,633	0.1%	NM	NM	130	120	0	0	1,499	1,512
Kentucky	230	241	-4.7%	47	43	NM	3	0	0	181	196
Mississippi	746	708	5.5%	0	0	6	6	0	0	740	701
Tennessee	582	588	-1.1%	0	0	115	117	NM	NM	465	469
West South Central	41,811	30,625	36.5%	823	934	38,423	27,061	41	37	2,524	2,594
Arkansas	705	757	-6.9%	0	0	74	51	NM	2	629	704
Louisiana	1,331	1,333	-0.2%	0	0	44	43	0	0	1,287	1,290
Oklahoma	9,662	6,699	44.2%	684	724	8,830	5,824	0	0	148	151
Texas	30,113	21,836	37.9%	139	209	29,475	21,143	39	35	460	449
Mountain	18,907	15,091	25.3%	1,849	1,573	16,772	13,267	66	57	220	195
Arizona	2,344	2,091	12.1%	275	278	2,056	1,801	12	12	0	0
Colorado	5,152	4,008	28.5%	53	72	5,086	3,924	12	11	NM	NM
Idaho	1,760	1,553	13.3%	77	72	1,472	1,296	0	0	210	186
Montana	1,135	1,000	13.5%	118	112	1,011	882	0	0	NM	6
Nevada	3,153	2,704	16.6%	18	0	3,094	2,670	41	32	NM	NM
New Mexico	2,234	1,285	73.9%	126	76	2,107	1,207	NM	NM	0	0
Utah	863	582	48.4%	127	123	737	459	0	0	0	0
Wyoming	2,265	1,868	21.2%	1,054	839	1,210	1,029	0	0	0	0
Pacific Contiguous	34,499	30,985	11.3%	4,266	3,607	28,543	25,590	517	556	1,174	1,233
California	25,112	23,242	8.0%	1,095	1,156	23,184	21,216	498	536	334	334
Oregon	4,316	3,693	16.9%	712	600	3,382	2,795	9	11	213	287
Washington	5,071	4,050	25.2%	2,460	1,851	1,977	1,579	9	9	626	612
Pacific Noncontiguous	722	698	3.4%	106	85	437	442	121	120	59	51
Alaska	116	109	6.7%	58	54	28	26	26	27	5	NM
Hawaii	606	589	2.7%	47	31	409	416	95	94	54	48
U.S. Total	171,918	146,974	17.0%	21,564	18,462	134,974	112,706	1,602	1,666	13,777	14,141

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

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	-34	-39	-13.2%	0	0	-34	-39	0	0	0	0
Connecticut	0	0	-74.5%	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-34	-39	-13.5%	0	0	-34	-39	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	-118	-116	2.2%	-64	-57	-54	-59	0	0	0	0
New Jersey	-20	-14	43.9%	-20	-14	0	0	0	0	0	0
New York	-44	-43	2.6%	-44	-43	0	0	0	0	0	0
Pennsylvania	-54	-59	-8.1%	0	0	-54	-59	0	0	0	0
East North Central	-103	-32	226.4%	-103	-32	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	-103	-32	226.4%	-103	-32	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	54	98	-44.7%	54	98	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	54	98	-44.7%	54	98	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	-379	-349	8.4%	-379	-349	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	-108	-90	19.6%	-108	-90	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	-100.0%	0	0	0	0	0	0	0	0
South Carolina	-131	-133	-1.5%	-131	-133	0	0	0	0	0	0
Virginia	-140	-127	10.9%	-140	-127	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-81	-41	99.6%	-81	-41	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	-81	-41	99.6%	-81	-41	0	0	0	0	0	0
West South Central	-1	-1	81.6%	-1	-1	0	0	0	0	0	0
Arkansas	3	4	-31.0%	3	4	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-4	-5	-13.0%	-4	-5	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	7	0	NM	7	0	0	0	0	0	0	0
Arizona	26	21	26.4%	26	21	0	0	0	0	0	0
Colorado	-20	-21	-4.8%	-20	-21	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	159	81	95.0%	159	81	0	0	0	0	0	0
California	159	80	98.0%	159	80	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	1	-139.6%	0	1	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-497	-398	25.0%	-409	-300	-88	-98	0	0	0	0

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

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

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	-239	-229	4.5%	0	0	-239	-229	0	0	0	0
Connecticut	1	-6	-109.9%	0	0	1	-6	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-239	-223	7.4%	0	0	-239	-223	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	-527	-554	-4.9%	-295	-292	-233	-262	0	0	0	0
New Jersey	-90	-88	1.9%	-90	-88	0	0	0	0	0	0
New York	-205	-203	0.5%	-205	-203	0	0	0	0	0	0
Pennsylvania	-233	-262	-11.3%	0	0	-233	-262	0	0	0	0
East North Central	-300	-182	65.0%	-300	-182	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	-300	-182	65.0%	-300	-182	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	218	162	34.6%	218	162	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	218	162	34.6%	218	162	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	-1,091	-1,273	-14.3%	-1,091	-1,273	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	-160	-381	-58.1%	-160	-381	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	-100.0%	0	0	0	0	0	0	0	0
South Carolina	-440	-450	-2.2%	-440	-450	0	0	0	0	0	0
Virginia	-491	-441	11.2%	-491	-441	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-308	-205	50.3%	-308	-205	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	-308	-205	50.3%	-308	-205	0	0	0	0	0	0
West South Central	0	-6	-96.9%	0	-6	0	0	0	0	0	0
Arkansas	30	19	58.7%	30	19	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-30	-24	22.9%	-30	-24	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-120	-126	-4.5%	-120	-126	0	0	0	0	0	0
Arizona	32	17	91.2%	32	17	0	0	0	0	0	0
Colorado	-152	-142	6.8%	-152	-142	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	8	11	-27.2%	8	11	0	0	0	0	0	0
California	11	-17	-164.5%	11	-17	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-3	28	-110.4%	-3	28	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	-2,359	-2,401	-1.7%	-1,888	-1,910	-471	-491	0	0	0	0

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

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	153	157	-2.9%	0	0	136	140	8	8	10	10
Connecticut	49	47	4.9%	0	0	49	47	0	0	0	0
Maine	33	34	-1.1%	0	0	16	16	8	8	10	10
Massachusetts	66	72	-9.0%	0	0	66	72	0	0	0	0
New Hampshire	4	4	0.0%	0	0	4	4	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	197	204	-3.5%	0	0	167	164	30	40	0	0
New Jersey	47	46	3.5%	0	0	35	33	13	13	0	0
New York	76	76	-0.4%	0	0	58	58	18	19	0	0
Pennsylvania	74	82	-10.2%	0	0	74	73	0	9	0	0
East North Central	89	104	-15.1%	2	5	13	13	5	18	69	68
Illinois	23	24	-3.6%	0	0	0	0	0	0	23	24
Indiana	41	40	3.7%	0	0	0	0	NM	NM	39	38
Michigan	16	32	-50.6%	0	NM	11	12	3	17	1	1
Ohio	NM	NM	NM	0	0	NM	NM	0	0	1	0
Wisconsin	7	8	-16.9%	2	3	0	0	0	0	5	NM
West North Central	39	44	-10.7%	19	23	12	12	NM	NM	5	NM
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	NM	NM	NM	0	0	0	0	0	0	NM	NM
Minnesota	35	37	-3.4%	15	17	12	12	NM	NM	5	NM
Missouri	1	4	-83.8%	1	4	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	NM	3	NM	NM	3	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	384	374	2.6%	0	0	216	193	18	18	149	163
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	266	253	5.2%	0	0	130	109	0	0	136	145
Georgia	8	13	-36.5%	0	0	0	0	0	0	8	13
Maryland	32	32	-0.5%	0	0	32	32	0	NM	0	0
North Carolina	30	30	0.6%	0	0	30	30	0	0	0	0
South Carolina	5	6	-13.2%	0	0	NM	NM	0	0	5	6
Virginia	42	40	5.1%	0	0	24	22	18	18	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	8	8	-3.1%	7	6	0	0	0	0	NM	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	7	6	11.6%	7	6	0	0	0	0	0	0
Mississippi	NM	NM	NM	0	0	0	0	0	0	NM	NM
Tennessee	1	2	-53.2%	0	0	0	0	0	0	1	2
West South Central	105	105	-0.4%	0	0	4	NM	0	0	101	104
Arkansas	0	1	-95.3%	0	0	0	0	0	0	0	1
Louisiana	34	32	4.5%	0	0	0	0	0	0	34	32
Oklahoma	4	NM	NM	0	0	3	0	0	0	NM	NM
Texas	67	70	-5.3%	0	0	NM	NM	0	0	65	69
Mountain	46	41	10.1%	NM	NM	27	26	0	0	17	15
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	NM	NM
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	26	25	4.4%	0	0	26	25	0	0	0	0
Nevada	NM	NM	NM	NM	NM	0	0	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	14	12	25.0%	0	0	NM	NM	0	0	14	11
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	85	83	2.8%	NM	NM	28	29	0	0	57	54
California	75	69	8.6%	NM	NM	18	19	0	0	57	50
Oregon	4	4	0.3%	0	0	4	4	0	0	0	0
Washington	6	10	-37.0%	0	0	6	6	0	0	0	4
Pacific Noncontiguous	19	16	17.8%	NM	0	2	0	17	16	0	0
Alaska	NM	0	--	NM	0	0	0	0	0	0	0
Hawaii	19	16	16.6%	0	0	2	0	17	16	0	0
U.S. Total	1,123	1,137	-1.2%	29	35	605	578	81	103	409	420

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

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

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	943	919	2.6%	0	0	839	792	44	52	59	75
Connecticut	296	278	6.4%	0	0	296	271	0	7	0	0
Maine	191	191	0.2%	0	0	88	71	44	45	59	75
Massachusetts	429	425	1.1%	0	0	429	425	0	0	0	0
New Hampshire	26	25	4.2%	0	0	26	25	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	1,165	1,150	1.3%	0	0	950	924	215	226	0	0
New Jersey	267	245	9.3%	0	0	197	173	70	72	0	0
New York	438	452	-3.2%	0	0	333	349	104	103	0	0
Pennsylvania	460	453	1.4%	0	0	419	402	41	51	0	0
East North Central	527	561	-6.1%	16	28	80	85	72	97	359	352
Illinois	133	131	1.6%	0	0	1	0	0	0	132	131
Indiana	191	192	-0.4%	0	0	0	0	9	9	182	183
Michigan	153	188	-18.5%	7	14	73	76	63	88	10	10
Ohio	11	12	-6.9%	0	0	6	9	0	0	5	4
Wisconsin	39	38	1.0%	10	13	0	0	0	0	29	25
West North Central	230	240	-4.2%	112	127	70	68	18	16	30	29
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	NM	NM	NM	0	0	0	0	0	0	NM	NM
Minnesota	207	196	5.8%	91	83	70	68	18	16	29	28
Missouri	7	29	-76.6%	7	29	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	15	14	2.3%	15	14	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,212	2,031	8.9%	108	0	1,094	1,097	99	99	910	835
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	1,580	1,438	9.8%	108	0	644	648	0	0	828	790
Georgia	65	21	205.4%	0	0	0	0	0	0	65	21
Maryland	157	151	4.5%	0	0	157	150	NM	NM	0	0
North Carolina	171	166	3.3%	0	0	171	166	0	0	0	0
South Carolina	21	27	-23.3%	0	0	NM	NM	0	0	18	24
Virginia	218	228	-4.5%	0	0	119	129	99	99	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	42	34	23.2%	30	22	0	0	0	0	11	12
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	30	22	38.8%	30	22	0	0	0	0	0	0
Mississippi	NM	NM	NM	0	0	0	0	0	0	NM	NM
Tennessee	9	10	-6.1%	0	0	0	0	0	0	9	10
West South Central	572	563	1.5%	0	0	19	7	0	0	553	556
Arkansas	3	7	-56.5%	0	0	0	0	0	0	3	7
Louisiana	185	191	-3.0%	0	0	0	0	0	0	185	191
Oklahoma	20	8	154.9%	0	0	11	0	0	0	10	8
Texas	363	357	1.6%	0	0	8	7	0	0	355	350
Mountain	285	194	46.4%	8	8	177	155	0	0	101	32
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	20	21	-3.1%	0	0	NM	NM	0	0	19	19
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	173	150	15.0%	0	0	173	150	0	0	0	0
Nevada	7	8	-8.1%	7	8	0	0	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	84	15	471.6%	0	0	NM	NM	0	0	82	13
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	466	511	-8.8%	NM	NM	145	157	0	0	321	353
California	395	421	-6.1%	NM	NM	86	100	0	0	309	321
Oregon	23	22	3.9%	0	0	23	22	0	0	0	0
Washington	48	68	-29.4%	0	0	36	35	0	0	12	33
Pacific Noncontiguous	98	95	3.1%	NM	NM	6	3	91	90	0	0
Alaska	NM	NM	NM	NM	NM	0	0	0	0	0	0
Hawaii	97	93	4.5%	0	0	6	3	91	90	0	0
U.S. Total	6,538	6,298	3.8%	275	186	3,379	3,287	539	581	2,344	2,244

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

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	191	136	40.1%	21	17	167	116	NM	NM	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	116	74	57.6%	0	0	116	74	0	0	0	0
Massachusetts	16	15	6.1%	NM	NM	9	9	NM	NM	NM	NM
New Hampshire	32	26	25.0%	0	0	32	26	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	NM	NM	0	0
Vermont	26	21	23.9%	17	14	9	7	0	0	0	0
Middle Atlantic	495	451	9.7%	0	0	495	451	0	0	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	278	219	26.6%	0	0	277	219	0	0	NM	NM
Pennsylvania	216	231	-6.4%	0	0	216	231	0	0	0	0
East North Central	1,342	1,206	11.3%	186	157	1,151	1,046	NM	NM	NM	NM
Illinois	592	519	14.3%	NM	NM	591	517	NM	NM	0	0
Indiana	280	272	3.1%	0	0	280	272	NM	NM	0	0
Michigan	301	262	14.8%	126	109	176	153	0	0	0	0
Ohio	75	80	-5.3%	NM	NM	70	77	NM	0	NM	NM
Wisconsin	93	73	26.6%	58	46	34	27	0	0	NM	NM
West North Central	4,196	2,982	40.7%	1,474	868	2,720	2,113	NM	NM	0	0
Iowa	1,309	911	43.7%	831	523	478	387	NM	NM	0	0
Kansas	984	813	21.1%	60	63	923	750	0	0	0	0
Minnesota	704	512	37.4%	182	94	520	417	NM	NM	0	0
Missouri	66	61	7.0%	0	0	66	61	0	0	0	0
Nebraska	259	187	38.3%	15	13	244	174	0	0	0	0
North Dakota	630	342	84.4%	312	134	318	208	0	0	0	0
South Dakota	245	157	56.5%	74	41	172	116	0	0	0	0
South Atlantic	126	136	-7.5%	0	0	126	136	NM	NM	0	0
Delaware	NM	NM	NM	0	0	0	0	NM	NM	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	34	33	2.6%	0	0	34	33	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	92	103	-10.8%	0	0	92	103	0	0	0	0
East South Central	1	2	-39.9%	0	0	1	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	1	2	-39.9%	0	0	1	2	0	0	0	0
West South Central	5,240	4,557	15.0%	101	155	5,136	4,399	NM	NM	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1,380	1,110	24.3%	79	130	1,300	980	0	0	0	0
Texas	3,860	3,447	12.0%	22	25	3,835	3,419	NM	NM	0	0
Mountain	1,477	1,067	38.4%	121	95	1,354	970	NM	NM	NM	NM
Arizona	46	34	33.7%	0	0	46	34	0	0	0	0
Colorado	558	428	30.3%	7	8	549	418	NM	NM	NM	NM
Idaho	194	151	28.3%	0	9	194	142	0	0	0	0
Montana	149	84	76.6%	15	8	134	76	0	0	0	0
Nevada	31	18	67.7%	0	0	31	18	0	0	0	0
New Mexico	207	128	61.2%	0	0	206	128	NM	NM	0	0
Utah	81	59	38.8%	0	0	81	59	0	0	0	0
Wyoming	211	164	28.8%	98	70	113	94	0	0	0	0
Pacific Contiguous	3,222	2,881	11.8%	644	526	2,577	2,354	NM	NM	NM	NM
California	1,658	1,620	2.4%	94	107	1,563	1,511	NM	NM	NM	NM
Oregon	785	671	16.9%	154	141	631	531	0	0	0	0
Washington	779	590	32.0%	397	278	383	312	0	0	0	0
Pacific Noncontiguous	74	59	25.6%	8	7	66	51	0	0	0	0
Alaska	11	11	8.4%	8	7	NM	NM	0	0	0	0
Hawaii	62	48	29.4%	0	0	62	48	0	0	0	0
U.S. Total	16,364	13,477	21.4%	2,555	1,825	13,792	11,639	11	9	NM	NM

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

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

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	1,334	1,192	11.8%	133	147	1,178	1,026	20	18	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	810	653	24.1%	0	0	810	653	0	0	0	0
Massachusetts	116	114	2.3%	32	31	67	68	16	14	NM	NM
New Hampshire	239	236	1.2%	0	0	239	236	0	0	0	0
Rhode Island	7	7	-1.7%	0	0	NM	NM	NM	NM	0	0
Vermont	161	182	-11.7%	102	116	59	66	0	0	0	0
Middle Atlantic	3,912	4,092	-4.4%	0	0	3,910	4,091	0	0	NM	NM
New Jersey	12	11	6.7%	0	0	12	11	0	0	0	0
New York	2,074	2,184	-5.0%	0	0	2,072	2,182	0	0	NM	NM
Pennsylvania	1,826	1,897	-3.7%	0	0	1,826	1,897	0	0	0	0
East North Central	12,707	11,694	8.7%	1,492	1,577	11,177	10,093	NM	NM	33	21
Illinois	5,983	5,410	10.6%	8	7	5,973	5,401	NM	NM	0	0
Indiana	2,872	2,311	24.3%	0	0	2,871	2,310	NM	NM	0	0
Michigan	2,352	2,486	-5.4%	968	1,022	1,384	1,463	0	0	0	0
Ohio	705	638	10.5%	8	7	665	613	NM	0	29	17
Wisconsin	796	849	-6.2%	509	541	283	305	0	0	NM	NM
West North Central	30,988	26,493	17.0%	10,630	8,680	20,342	17,796	17	17	0	0
Iowa	10,469	9,174	14.1%	6,625	5,430	3,842	3,742	NM	NM	0	0
Kansas	7,174	5,325	34.7%	464	440	6,711	4,885	0	0	0	0
Minnesota	5,467	5,154	6.1%	1,237	1,015	4,215	4,124	15	15	0	0
Missouri	602	527	14.2%	0	0	602	527	0	0	0	0
Nebraska	1,826	1,628	12.2%	101	116	1,725	1,513	0	0	0	0
North Dakota	3,888	3,423	13.6%	1,709	1,324	2,179	2,099	0	0	0	0
South Dakota	1,562	1,261	23.9%	494	355	1,068	905	0	0	0	0
South Atlantic	1,028	1,027	0.0%	0	0	1,025	1,025	NM	NM	0	0
Delaware	NM	NM	NM	0	0	0	0	NM	NM	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	274	233	17.5%	0	0	274	233	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	751	792	-5.1%	0	0	751	792	0	0	0	0
East South Central	23	24	-5.2%	0	0	23	24	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	23	24	-5.2%	0	0	23	24	0	0	0	0
West South Central	38,469	27,333	40.7%	815	857	37,635	26,460	19	16	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	9,503	6,541	45.3%	681	724	8,822	5,816	0	0	0	0
Texas	28,965	20,793	39.3%	134	133	28,812	20,643	19	16	0	0
Mountain	12,272	9,471	29.6%	1,299	1,091	10,967	8,374	NM	NM	NM	NM
Arizona	284	211	34.2%	0	0	284	211	0	0	0	0
Colorado	4,856	3,801	27.7%	53	72	4,798	3,725	NM	NM	NM	NM
Idaho	1,395	1,215	14.9%	73	68	1,322	1,147	0	0	0	0
Montana	1,129	994	13.6%	118	112	1,011	882	0	0	0	0
Nevada	157	149	5.1%	0	0	157	149	0	0	0	0
New Mexico	1,839	939	95.8%	0	0	1,837	938	NM	NM	0	0
Utah	348	293	18.9%	0	0	348	293	0	0	0	0
Wyoming	2,265	1,868	21.2%	1,054	839	1,210	1,029	0	0	0	0
Pacific Contiguous	15,123	12,439	21.6%	3,237	2,584	11,880	9,850	NM	NM	NM	NM
California	7,227	6,232	16.0%	316	367	6,905	5,861	NM	NM	NM	NM
Oregon	3,732	3,040	22.7%	667	565	3,065	2,476	0	0	0	0
Washington	4,164	3,166	31.5%	2,254	1,652	1,910	1,514	0	0	0	0
Pacific Noncontiguous	364	366	-0.6%	58	54	306	312	0	0	0	0
Alaska	86	80	7.6%	58	54	28	26	0	0	0	0
Hawaii	278	286	-2.9%	0	0	278	286	0	0	0	0
U.S. Total	116,220	94,132	23.5%	17,665	14,990	98,441	79,053	71	61	42	28

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

Table 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	603	575	5.0%	63	48	441	427	11	13	87	86
Connecticut	72	67	8.8%	0	0	72	67	0	0	0	0
Maine	235	224	5.1%	0	0	140	128	8	9	87	86
Massachusetts	92	100	-8.2%	0	0	92	100	NM	0	0	0
New Hampshire	140	133	5.8%	30	30	107	99	NM	4	0	0
Rhode Island	18	20	-9.8%	0	0	18	20	0	0	0	0
Vermont	45	31	43.7%	33	18	NM	NM	NM	NM	0	0
Middle Atlantic	490	497	-1.4%	0	0	382	382	34	46	74	68
New Jersey	84	84	0.8%	0	0	70	69	14	14	0	0
New York	203	209	-2.7%	0	0	163	168	17	20	23	21
Pennsylvania	202	204	-1.0%	0	0	148	145	NM	12	51	47
East North Central	441	489	-10.0%	49	56	269	283	7	20	116	130
Illinois	46	45	1.5%	0	0	46	45	0	0	0	0
Indiana	33	33	-1.7%	26	26	NM	NM	NM	2	5	5
Michigan	195	200	-2.7%	0	NM	141	133	3	18	51	50
Ohio	62	67	-6.6%	0	NM	42	41	0	0	21	25
Wisconsin	105	144	-27.3%	23	30	40	63	NM	NM	40	50
West North Central	195	195	0.3%	47	44	87	90	11	4	51	57
Iowa	20	21	-6.9%	NM	2	10	10	NM	2	6	7
Kansas	5	5	0.7%	0	0	5	5	0	0	0	0
Minnesota	150	157	-4.7%	34	34	70	72	2	NM	45	50
Missouri	12	6	120.1%	NM	4	NM	2	6	0	NM	NM
Nebraska	8	5	51.5%	7	4	0	0	NM	NM	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	1,492	1,620	-8.0%	160	178	490	565	29	33	813	845
Delaware	6	7	-2.4%	0	0	5	5	0	0	NM	2
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	343	408	-16.0%	6	10	185	232	NM	2	149	164
Georgia	362	382	-5.0%	0	0	58	59	0	2	304	320
Maryland	53	49	8.4%	0	0	40	40	NM	NM	11	7
North Carolina	197	208	-5.3%	0	0	93	98	6	7	98	103
South Carolina	191	195	-1.9%	38	37	26	29	0	0	128	129
Virginia	338	372	-9.1%	116	131	82	101	19	20	120	119
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	547	522	4.8%	NM	8	32	33	0	0	507	481
Alabama	290	268	8.3%	NM	NM	23	25	0	0	266	243
Kentucky	36	40	-8.9%	8	8	NM	NM	0	0	28	32
Mississippi	132	126	4.7%	0	0	NM	NM	0	0	131	125
Tennessee	89	88	0.6%	0	0	7	7	0	0	82	81
West South Central	501	521	-3.8%	1	13	77	65	NM	3	422	440
Arkansas	105	119	-11.6%	0	0	7	7	NM	NM	97	111
Louisiana	232	236	-1.7%	0	0	8	8	0	0	224	228
Oklahoma	26	26	0.0%	0	0	NM	NM	0	0	25	25
Texas	138	140	-1.3%	1	13	60	50	NM	2	75	76
Mountain	93	91	2.4%	NM	2	54	55	0	0	38	33
Arizona	18	21	-14.8%	0	NM	18	19	0	0	0	0
Colorado	NM	11	NM	0	0	NM	11	0	0	0	0
Idaho	55	49	12.3%	NM	NM	18	16	0	0	37	32
Montana	NM	NM	NM	0	0	0	0	0	0	NM	NM
Nevada	NM	2	NM	0	0	NM	2	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	6	6	0.5%	0	0	6	6	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	743	808	-8.0%	58	35	420	484	70	79	195	209
California	513	585	-12.2%	16	17	373	436	67	76	56	56
Oregon	72	93	-22.6%	6	6	35	37	NM	2	30	48
Washington	158	130	21.3%	36	12	11	11	NM	NM	109	105
Pacific Noncontiguous	30	27	10.8%	3	1	0	0	21	21	6	6
Alaska	NM	4	NM	0	0	0	0	NM	4	NM	0
Hawaii	26	23	14.0%	3	1	0	0	18	16	6	6
U.S. Total	5,135	5,345	-3.9%	389	384	2,252	2,386	186	220	2,308	2,355

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

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

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	3,608	3,680	-2.0%	302	290	2,675	2,598	60	81	570	711
Connecticut	434	383	13.3%	0	0	434	374	0	9	0	0
Maine	1,467	1,577	-7.0%	0	0	854	815	42	52	570	711
Massachusetts	585	590	-0.8%	0	0	585	590	NM	NM	0	0
New Hampshire	782	799	-2.1%	139	154	627	626	16	19	0	0
Rhode Island	104	112	-6.7%	0	0	104	112	0	0	0	0
Vermont	235	219	7.5%	163	136	71	82	NM	NM	0	0
Middle Atlantic	2,915	2,868	1.7%	0	0	2,237	2,197	257	275	421	395
New Jersey	491	465	5.6%	0	0	405	380	87	85	0	0
New York	1,193	1,179	1.1%	0	0	956	954	102	113	134	112
Pennsylvania	1,231	1,223	0.7%	0	0	876	863	68	77	287	283
East North Central	2,803	2,935	-4.5%	317	267	1,613	1,716	96	117	778	835
Illinois	272	282	-3.5%	0	0	272	282	0	0	0	0
Indiana	193	192	0.2%	151	148	NM	3	8	10	30	32
Michigan	1,193	1,264	-5.7%	NM	NM	796	829	63	94	334	342
Ohio	371	400	-7.2%	NM	4	242	237	0	0	128	159
Wisconsin	774	796	-2.7%	165	116	300	365	24	13	286	302
West North Central	1,116	1,121	-0.5%	270	241	517	527	56	46	272	307
Iowa	123	130	-5.6%	13	13	59	57	15	14	36	46
Kansas	37	33	10.6%	0	0	32	31	0	0	5	NM
Minnesota	841	873	-3.7%	195	184	415	428	12	8	220	253
Missouri	57	50	13.7%	23	23	11	11	21	16	NM	NM
Nebraska	49	30	59.8%	40	23	0	0	8	8	0	0
North Dakota	9	NM	NM	0	0	0	0	0	0	9	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	8,759	9,091	-3.7%	978	836	2,777	3,155	175	188	4,829	4,912
Delaware	37	37	-1.8%	0	0	30	29	0	0	7	8
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,131	2,389	-10.8%	159	52	1,019	1,357	17	14	936	966
Georgia	2,094	2,154	-2.8%	0	0	315	314	3	13	1,775	1,827
Maryland	273	271	0.7%	0	0	205	197	15	13	53	61
North Carolina	1,116	1,152	-3.1%	0	0	558	540	34	38	524	574
South Carolina	1,132	1,115	1.5%	210	215	153	172	0	0	769	728
Virginia	1,975	1,971	0.2%	609	569	495	545	105	110	766	747
West Virginia	NM	2	NM	0	0	NM	2	0	0	0	0
East South Central	3,114	3,091	0.7%	48	44	180	169	0	0	2,885	2,878
Alabama	1,633	1,633	0.1%	NM	NM	130	120	0	0	1,499	1,512
Kentucky	228	241	-5.6%	44	43	NM	3	0	0	181	196
Mississippi	746	708	5.5%	0	0	6	6	0	0	740	701
Tennessee	506	510	-0.6%	0	0	42	41	0	0	465	469
West South Central	2,991	3,105	-3.7%	4	76	441	415	21	20	2,524	2,594
Arkansas	691	757	-8.8%	0	0	60	51	NM	2	629	704
Louisiana	1,331	1,333	-0.2%	0	0	44	43	0	0	1,287	1,290
Oklahoma	156	158	-1.4%	0	0	8	8	0	0	148	151
Texas	813	856	-5.0%	4	76	330	314	19	17	460	449
Mountain	547	527	3.9%	6	14	325	321	0	0	217	192
Arizona	104	113	-8.2%	NM	10	102	104	0	0	0	0
Colorado	67	64	4.1%	0	0	67	64	0	0	0	0
Idaho	316	290	9.1%	4	4	101	99	0	0	210	186
Montana	NM	6	NM	0	0	0	0	0	0	NM	6
Nevada	12	12	2.6%	0	0	12	12	0	0	0	0
New Mexico	6	7	-6.8%	0	0	6	7	0	0	0	0
Utah	36	35	2.3%	0	0	36	35	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,412	4,798	-8.0%	338	331	2,464	2,756	446	487	1,165	1,225
California	3,047	3,369	-9.6%	101	101	2,194	2,475	427	467	325	326
Oregon	459	545	-15.8%	33	32	204	215	9	11	213	287
Washington	906	884	2.6%	205	198	67	65	9	9	626	612
Pacific Noncontiguous	198	188	5.5%	19	16	0	0	121	120	59	51
Alaska	30	29	4.5%	0	0	0	0	26	27	5	NM
Hawaii	168	159	5.7%	19	16	0	0	95	94	54	48
U.S. Total	30,463	31,403	-3.0%	2,283	2,116	13,229	13,854	1,232	1,335	13,720	14,098

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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, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
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	330	306	7.7%	20	22	310	284	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	NM	8	NM	0	0	NM	8	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	279	258	8.2%	0	0	279	258	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	41	39	7.0%	20	22	22	17	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,011	1,057	-4.4%	70	71	941	986	0	0	0	0
California	999	1,047	-4.6%	69	71	930	977	0	0	0	0
Oregon	12	10	26.1%	NM	0	11	10	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	18	17	3.4%	0	0	18	17	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	18	17	3.4%	0	0	18	17	0	0	0	0
U.S. Total	1,359	1,381	-1.6%	90	93	1,269	1,288	0	0	0	0

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

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

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 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	2,129	1,994	6.8%	127	123	2,002	1,871	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	49	49	-1.4%	0	0	49	49	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,799	1,688	6.6%	0	0	1,799	1,688	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	275	250	9.7%	127	123	148	127	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	6,088	6,358	-4.3%	404	407	5,684	5,952	0	0	0	0
California	5,987	6,267	-4.5%	396	407	5,591	5,861	0	0	0	0
Oregon	101	91	11.1%	NM	0	93	91	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	111	109	2.3%	0	0	111	109	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	111	109	2.3%	0	0	111	109	0	0	0	0
U.S. Total	8,328	8,462	-1.6%	531	530	7,798	7,932	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, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors							Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
								Electric Utilities		Independent Power Producers															
	Estimated Net Generation From Utility Scale Facilities and Distributed Solar Photovoltaic Generation			Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Net Generation From Utility Scale Facilities and Distributed Solar		Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Estimated Net Generation From Utility Scale Facilities and Distributed Solar		Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Estimated Distributed Solar Photovoltaic Generation	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	241	178	35.3%	89	83	152	95	NM	NM	85	80	NM	NM	NM	NM	80	60	7	4	0	0	7	4	65	31
Connecticut	NM	18	NM	NM	NM	28	16	NM	0	NM	NM	11	7	0	0	11	7	1	1	0	0	1	1	16	8
Maine	3	2	60.3%	0	0	3	2	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	1
Massachusetts	182	141	29.8%	77	72	106	68	NM	NM	74	70	NM	NM	NM	NM	62	49	6	3	0	0	6	3	38	17
New Hampshire	5	2	134.9%	0	0	5	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	3	1
Rhode Island	NM	3	NM	NM	NM	2	1	0	0	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	1	0
Vermont	17	13	31.8%	8	7	9	6	0	0	8	7	3	2	0	0	3	2	0	0	0	0	0	0	6	4
Middle Atlantic	367	295	24.6%	119	106	248	189	12	10	88	75	149	135	18	19	131	116	NM	NM	NM	NM	14	13	103	60
New Jersey	231	204	13.0%	90	87	140	117	12	10	61	59	108	102	17	18	90	84	NM	NM	NM	NM	7	7	43	26
New York	102	59	73.7%	20	10	82	49	0	0	20	10	NM	NM	NM	NM	30	23	1	1	0	0	1	1	51	25
Pennsylvania	34	32	7.9%	9	9	26	23	0	0	7	7	NM	NM	NM	NM	11	9	NM	NM	NM	NM	5	5	10	8
East North Central	73	58	25.6%	48	37	25	21	NM	NM	40	34	NM	NM	NM	NM	17	15	NM	NM	NM	NM	1	1	7	5
Illinois	10	9	6.7%	7	7	3	3	NM	NM	7	7	2	2	0	0	2	2	NM	NM	0	0	NM	NM	1	1
Indiana	32	23	40.6%	30	22	2	1	NM	NM	26	21	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	1
Michigan	NM	5	NM	NM	NM	5	4	NM	NM	0	0	3	3	0	0	3	3	NM	0	0	0	NM	0	1	1
Ohio	20	18	12.1%	9	8	11	10	NM	NM	7	6	NM	NM	NM	NM	8	8	NM	NM	NM	NM	1	1	2	1
Wisconsin	NM	3	NM	NM	NM	4	3	0	0	NM	NM	2	2	0	0	2	2	NM	NM	0	0	NM	NM	2	1
West North Central	NM	25	NM	NM	NM	27	22	0	0	NM	NM	NM	13	NM	0	15	13	0	0	0	0	0	0	11	9
Iowa	5	4	23.2%	0	0	5	4	0	0	0	0	3	2	0	0	3	2	NM	0	0	0	NM	0	2	1
Kansas	NM	1	NM	NM	NM	1	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Minnesota	NM	3	NM	NM	NM	4	3	0	0	NM	NM	2	1	0	0	2	1	0	0	0	0	0	0	2	1
Missouri	NM	17	NM	NM	NM	18	15	0	0	NM	NM	NM	9	NM	0	10	9	0	0	0	0	0	0	7	6
Nebraska	NM	0	NM	NM	0	NM	0	0	0	NM	0	NM	0	0	0	NM	0	0	NM	0	0	0	NM	NM	0
North Dakota	0	0	3.1%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	0	0	17.3%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	620	296	109.6%	506	227	114	69	39	11	452	205	72	56	15	11	57	45	6	2	0	0	6	2	52	22
Delaware	16	13	20.8%	7	7	9	6	NM	NM	6	6	NM	NM	NM	NM	5	5	0	0	0	0	0	0	4	2
District of Columbia	4	3	47.7%	0	0	4	3	0	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	1	1
Florida	37	28	29.7%	17	14	19	14	8	7	9	7	NM	NM	NM	NM	9	7	0	0	0	0	0	0	10	6
Georgia	NM	23	NM	68	15	NM	8	7	NM	60	13	NM	NM	NM	NM	NM	8	NM	0	0	0	NM	0	NM	0
Maryland	73	38	89.1%	19	13	54	25	NM	NM	17	12	NM	NM	NM	NM	22	15	4	1	0	0	4	1	28	9
North Carolina	405	186	117.7%	394	177	11	9	21	NM	360	167	21	17	14	9	8	7	0	0	0	0	0	0	3	2
South Carolina	NM	1	NM	NM	NM	2	1	0	0	NM	NM	1	0	0	0	1	0	0	0	0	0	0	0	2	0
Virginia	NM	3	NM	NM	0	4	3	NM	0	0	0	2	1	0	0	2	1	NM	0	0	0	NM	0	2	2
West Virginia	1	0	37.5%	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East South Central	21	19	11.4%	13	11	8	8	2	0	10	11	NM	NM	NM	NM	8	8	0	0	0	0	0	0	0	0
Alabama	0	0	4.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kentucky	4	1	169.7%	2	0	2	1	2	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Mississippi	0	0	-14.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	17	17	-1.5%	11	11	6	6	0	0	10	11	NM	NM	NM	NM	6	6	0	0	0	0	0	0	0	0
West South Central	122	77	58.6%	73	44	49	34	1	0	72	43	NM	NM	NM	NM	11	9	0	0	0	0	0	0	38	24
Arkansas	NM	1	NM	NM	0	1	1	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Louisiana	19	14	38.0%	0	0	19	14	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	19	13
Oklahoma	1	0	214.3%	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Texas	99	62	58.1%	70	44	29	19	0	0	69	43	NM	NM	NM	NM	10	8	0	0	0	0	0	0	19	10
Mountain	966	721	34.1%	721	532	246	189	90	69	617	449	95	91	13	14	82	77	NM	NM	NM	NM	15	13	149	99
Arizona	447	385	16.0%	315	275	132	111	59	53	253	219	NM	NM	NM	NM	42	41	12	11	0	0	12	11	78	59
Colorado	99	72	38.0%	51	30	48	42	0	0	49	28	NM	NM	NM	NM	20	19	0	0	0	0	0	0	28	23
Idaho	1	1	62.9%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Montana	1	1	33.9%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nevada	263	175	49.7%	230	160	32	15	NM	0	218	150	16	17	8	10	8	7	NM	NM	NM	NM	2	1	23	7
New Mexico	94	79	18.6%	78	66	16	13	27	16	51	51	7	7	0	0	7	7	0	0	0	0	0	0	9	6
Utah	61	7	726.6%	47	NM	14	6	0	0	47	NM	5	3	0	0	5	3	1	0	0	0	1	0	9	3
Wyoming	NM	0	NM	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Pacific Contiguous	2,316	1,819	27.3%	1,595	1,284	720	535	61	60	1,519	1,209	171	152	14	14	157	138	NM	NM	NM	NM	110	86	453	311
California	2,288	1,798	27.2%	1,590	1,281	698	517	60	59	1,515	1,206	164	146	14	14	150	132	NM	NM	NM	NM	110	86	438	300
Oregon	NM	15	NM	NM	3	13	12	NM	NM	NM	NM	6	5	0	0	6	5	1	0	0	0	1	0	7	6
Washington	9	6	58.3%	0	0	9	6	0	0	0	0	1	1	0	0	1	1	0	NM	0	0	0	NM	8	5
Pacific Noncontiguous	77	64	20.4%	10	7	67	57	NM	NM	NM	4	25	22	0	0	25	22	0	0	0	0	0	0	43	35
Alaska	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	77	64	20.4%	10	7	67	57	NM	NM	NM	4	25	22	0	0	25	22	0	0	0	0	0	0	43	35
U.S. Total	4,835	3,552	36.1%	3,179	2,334	1,656	1,218	220	157	2,892	2,114	644	564	63	60	581	505	NM	122	NM	3	153	118	922	595

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

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

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

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

Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.17.B. Net Generation from Solar Photovoltaic
by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors							Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
								Electric Utilities		Independent Power Producers															
	Estimated Net Generation From Utility Scale Facilities and Distributed Solar Photovoltaic Generation			Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Net Generation From Utility Scale Facilities and Distributed Solar		Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Estimated Net Generation From Utility Scale Facilities and Distributed Solar		Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Estimated Distributed Solar Photovoltaic Generation	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	1,072	851	26.0%	423	397	649	454	11	10	408	384	370	300	NM	3	366	297	27	20	0	0	27	20	256	137
Connecticut	139	86	61.8%	12	11	126	74	NM	0	11	11	51	35	0	0	51	35	6	4	0	0	6	4	69	35
Maine	12	8	65.4%	0	0	12	8	0	0	0	0	4	2	0	0	4	2	0	0	0	0	0	0	8	5
Massachusetts	807	677	19.2%	369	346	438	331	9	10	355	333	289	245	NM	3	284	242	20	16	0	0	20	16	134	73
New Hampshire	21	9	120.4%	0	0	21	9	0	0	0	0	5	3	0	0	5	3	1	0	0	0	1	0	15	6
Rhode Island	17	13	31.1%	8	6	9	7	0	0	8	6	6	5	0	0	6	5	0	0	0	0	0	0	3	1
Vermont	77	59	30.3%	34	34	42	25	0	0	34	34	15	8	0	0	15	8	0	0	0	0	0	0	27	17
Middle Atlantic	1,691	1,422	18.9%	537	504	1,154	918	57	49	386	358	731	662	88	91	643	572	76	68	6	6	70	62	441	284
New Jersey	1,094	993	10.1%	425	411	669	582	57	49	284	276	532	505	83	86	449	419	39	34	NM	NM	38	33	182	130
New York	431	273	57.5%	71	50	360	223	0	0	69	48	142	108	NM	NM	141	106	6	3	0	0	6	3	213	114
Pennsylvania	166	155	7.3%	41	43	125	112	0	0	33	34	56	49	NM	3	53	46	31	31	5	5	26	26	46	40
East North Central	341	271	25.9%	229	177	112	94	36	11	189	162	79	70	NM	NM	77	68	6	6	NM	NM	4	4	30	22
Illinois	47	44	6.7%	33	32	14	12	NM	NM	31	31	10	9	0	0	10	9	0	0	0	0	0	0	5	3
Indiana	155	111	39.6%	146	105	10	6	21	NM	125	101	6	3	0	0	6	3	0	0	0	0	0	0	4	3
Michigan	29	20	41.0%	NM	NM	22	20	NM	NM	0	0	15	14	0	0	15	14	0	0	0	0	0	0	6	5
Ohio	92	80	14.5%	43	38	49	42	6	6	33	28	39	35	NM	NM	37	33	5	5	NM	NM	4	3	8	6
Wisconsin	18	15	21.3%	NM	NM	17	14	0	0	NM	NM	9	9	0	0	9	9	1	0	0	0	1	0	7	5
West North Central	147	118	24.9%	20	13	127	105	0	0	19	13	73	62	NM	0	72	62	2	2	0	0	2	2	53	41
Iowa	22	17	26.1%	0	0	22	17	0	0	0	0	14	11	0	0	14	11	0	0	0	0	0	0	7	6
Kansas	4	3	31.3%	NM	NM	3	2	0	0	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Minnesota	21	14	47.7%	NM	NM	16	12	0	0	NM	NM	8	7	0	0	8	7	1	1	0	0	1	1	7	5
Missouri	98	82	19.4%	14	10	84	72	0	0	12	10	49	43	NM	0	48	43	0	0	0	0	0	0	36	29
Nebraska	2	1	170.7%	NM	0	1	1	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
North Dakota	0	0	-0.3%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	0	0	16.3%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	2,893	1,418	104.0%	2,360	1,067	532	351	195	57	2,094	959	360	285	71	51	289	234	25	8	0	0	25	8	218	109
Delaware	73	64	15.1%	31	31	42	33	4	4	26	26	27	24	NM	NM	26	23	2	2	0	0	2	2	15	8
District of Columbia	18	14	32.2%	0	0	18	14	0	0	0	0	12	10	0	0	12	10	0	0	0	0	0	0	6	4
Florida	191	147	29.9%	85	72	106	75	41	37	43	35	53	43	NM	NM	52	42	3	1	0	0	3	1	52	32
Georgia	369	116	218.0%	321	72	48	44	38	7	280	63	44	43	NM	NM	42	41	2	1	0	0	2	1	5	2
Maryland	313	186	68.5%	86	64	227	122	5	5	78	56	108	77	NM	NM	105	75	17	4	0	0	17	4	105	43
North Carolina	1,889	869	117.3%	1,832	825	57	45	104	4	1,663	776	105	81	65	45	40	36	1	1	0	0	1	1	15	8
South Carolina	12	6	112.2%	NM	3	9	3	0	0	NM	3	2	1	0	0	2	1	0	0	0	0	0	0	7	2
Virginia	23	14	69.2%	NM	0	21	14	NM	0	0	0	9	6	0	0	9	6	0	0	0	0	0	0	12	7
West Virginia	3	2	32.3%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
East South Central	95	94	1.4%	54	54	41	40	2	0	50	52	41	40	NM	NM	39	39	0	0	0	0	0	0	2	2
Alabama	2	2	4.0%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Kentucky	10	7	46.3%	2	0	8	7	2	0	0	0	6	6	0	0	6	6	0	0	0	0	0	0	2	1
Mississippi	1	1	-13.3%	0	0	1	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Tennessee	83	84	-2.1%	52	54	31	31	0	0	50	52	33	32	NM	NM	31	31	0	0	0	0	0	0	0	0
West South Central	592	350	69.5%	351	187	241	162	3	0	347	186	58	46	NM	NM	57	45	0	0	0	0	0	0	184	117
Arkansas	18	3	575.3%	14	0	3	3	0	0	14	0	2	1	0	0	2	1	0	0	0	0	0	0	2	1
Louisiana	99	69	42.7%	0	0	99	69	0	0	0	0	4	3	0	0	4	3	0	0	0	0	0	0	95	67
Oklahoma	5	1	219.7%	3	0	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Texas	471	276	70.6%	334	187	137	89	0	0	333	186	53	42	NM	NM	51	41	0	0	0	0	0	0	86	48
Mountain	4,735	3,625	30.6%	3,502	2,689	1,233	935	418	344	3,022	2,290	492	444	61	53	431	390	86	72	NM	NM	85	70	717	474
Arizona	2,294	1,984	15.7%	1,599	1,414	695	570	274	268	1,313	1,133	241	227	12	12	229	215	70	60	0	0	70	60	396	295
Colorado	462	340	36.1%	229	143	233	197	0	0	221	134	109	104	9	9	100	95	1	1	0	0	1	1	131	101
Idaho	4	3	60.2%	0	0	4	3	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Montana	5	4	34.1%	0	0	5	4	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	4	3
Nevada	1,234	860	43.6%	1,086	797	148	63	18	0	1,026	763	80	61	41	32	39	29	11	8	NM	NM	10	7	99	27
New Mexico	467	401	16.4%	382	332	84	69	126	76	256	256	39	37	0	0	39	37	0	0	0	0	0	0	44	32
Utah	266	33	715.0%	205	NM	61	29	0	0	205	NM	20	12	0	0	20	12	3	2	0	0	3	2	38	15
Wyoming	2	1	34.6%	0	0	2	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Pacific Contiguous	11,119	8,720	27.5%	7,722	6,237	3,397	2,483	287	286	7,361	5,880	868	733	68	66	800	667	523	418	6	5	518	413	2,080	1,404
California	11,000	8,633	27.4%	7,697	6,220	3,303	2,413	282	282	7,340	5,867	840	706	68	66	771	640	521	416	6	5	515	411	2,017	1,362
Oregon	79	64	25.0%	25	17	55	47	4	4	21	13	23	23	0	0	23	23	2	2	0	0	2	2	30	23
Washington	39	24	64.5%	0	0	39	24	0	0	0	0	6	4	0	0	6	4	0	0	0	0	0	0	33	19
Pacific Noncontiguous	408	333	22.7%	48	35	360	297	28	15	20	20	128	117	0	0	128	117	1	0	0	0	1	0	230	181
Alaska	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	408	333	22.7%	48	35	360	297	28	15	20	20	128	117	0	0	128	117	1	0	0	0	1	0	230	181
U.S. Total	23,093	17,200	34.3%	15,248	11,360	7,845	5,840	1,037	771	13,896	10,304	3,201	2,760	299	270	2,902	2,490	747	593	15	15	732	579	4,212	2,771

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
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	10	16	-38.8%	10	16	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	10	16	-38.8%	10	16	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	113	106	6.2%	0	0	113	106	0	0	0	0
Arizona	89	91	-2.3%	0	0	89	91	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	24	15	56.8%	0	0	24	15	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	289	261	10.6%	0	0	289	261	0	0	0	0
California	289	261	10.6%	0	0	289	261	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	412	383	7.4%	10	16	402	368	0	0	0	0

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

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

by State, by Sector, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 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	48	55	-11.2%	48	55	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	48	55	-11.2%	48	55	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	455	410	11.0%	0	0	455	410	0	0	0	0
Arizona	357	353	1.2%	0	0	357	353	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	98	58	70.5%	0	0	98	58	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	1,155	1,152	0.2%	0	0	1,155	1,152	0	0	0	0
California	1,155	1,152	0.2%	0	0	1,155	1,152	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,659	1,617	2.6%	48	55	1,610	1,563	0	0	0	0

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

Table 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2006-June 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	1,030,556	753,390	269,412	347	7,408
2007	1,046,795	764,765	276,581	361	5,089
2008	1,042,335	760,326	276,565	369	5,075
2009	934,683	695,615	234,077	317	4,674
2010	979,684	721,431	249,814	314	8,125
2011	934,938	689,316	239,541	347	5,735
2012	825,734	615,467	205,295	307	4,665
2013	860,729	638,327	217,219	513	4,670
2014	853,634	624,235	224,568	202	4,629
2015	740,855	548,490	188,032	163	4,169
Year 2014					
January	83,647	61,084	22,129	27	407
February	76,160	55,073	20,699	27	362
March	72,124	51,559	20,147	22	396
April	58,065	41,151	16,541	16	357
May	64,033	47,114	16,521	12	385
June	74,328	55,542	18,365	15	406
July	81,495	60,238	20,821	16	420
August	81,074	60,222	20,422	14	417
Sept	69,127	50,728	17,998	12	389
October	61,129	44,987	15,772	11	359
November	64,651	46,561	17,720	14	356
December	67,799	49,976	17,434	16	373
Year 2015					
January	71,302	51,530	19,403	17	351
February	67,056	48,594	18,098	19	345
March	58,308	43,019	14,908	17	363
April	48,549	36,829	11,431	11	278
May	57,217	43,540	13,343	12	321
June	69,166	51,328	17,451	14	373
July	76,833	57,032	19,390	15	396
August	74,067	54,796	18,852	12	406
Sept	65,008	47,582	17,043	11	372
October	53,985	39,774	13,856	11	344
November	49,173	36,122	12,733	11	306
December	50,191	38,342	11,523	12	313
Year 2016					
January	62,151	46,090	15,729	13	319
February	50,649	38,053	12,285	14	297
March	39,923	31,511	8,089	14	309
April	39,064	28,973	9,825	10	256
May	45,165	34,071	10,818	9	267
June	63,384	46,646	16,414	10	313
Year to Date					
2014	428,357	311,523	114,402	119	2,314
2015	371,598	274,841	94,634	91	2,032
2016	300,336	225,344	73,160	71	1,762
Rolling 12 Months Ending in June					
2015	796,875	587,554	204,801	173	4,347
2016	669,593	498,992	166,558	144	3,899

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 2014 and prior years are final. Values for 2015 and 2016 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, 2006-June 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	23,227	0	3,834	1,539	17,854
2007	22,810	0	3,795	1,566	17,449
2008	22,168	0	3,689	1,652	16,827
2009	20,507	0	3,935	1,481	15,091
2010	21,727	0	3,808	1,406	16,513
2011	21,532	0	3,628	1,321	16,584
2012	19,333	0	2,790	1,143	15,400
2013	18,350	0	2,416	843	15,090
2014	18,107	978	1,821	861	14,448
2015	17,723	1,233	1,933	697	13,859
Year 2014					
January	1,773	114	171	105	1,384
February	1,641	97	167	105	1,271
March	1,722	95	199	96	1,332
April	1,425	81	162	66	1,115
May	1,450	81	146	59	1,164
June	1,413	63	153	63	1,134
July	1,466	78	150	70	1,169
August	1,451	70	149	58	1,175
Sept	1,355	70	121	52	1,113
October	1,359	66	122	47	1,123
November	1,480	76	138	68	1,198
December	1,573	86	142	74	1,271
Year 2015					
January	1,669	91	176	79	1,325
February	1,454	85	150	72	1,146
March	1,543	86	163	71	1,223
April	1,374	68	137	53	1,116
May	1,420	76	172	50	1,123
June	1,374	87	173	50	1,064
July	1,494	83	190	53	1,168
August	1,448	72	171	51	1,154
Sept	1,396	73	172	46	1,105
October	1,283	77	128	50	1,028
November	1,752	344	149	59	1,200
December	1,517	91	154	64	1,207
Year 2016					
January	1,516	90	140	66	1,220
February	1,396	81	106	67	1,141
March	1,362	86	137	64	1,076
April	1,112	73	171	41	828
May	1,168	77	143	33	914
June	1,179	77	157	38	908
Year to Date					
2014	9,424	532	999	494	7,400
2015	8,834	493	970	374	6,997
2016	7,733	484	855	309	6,086
Rolling 12 Months Ending in June					
2015	17,517	939	1,792	741	14,045
2016	16,623	1,224	1,818	632	12,949

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 2014 and prior years are final. Values for 2015 and 2016 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, 2006-June 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	1,053,783	753,390	273,246	1,886	25,262
2007	1,069,606	764,765	280,377	1,927	22,537
2008	1,064,503	760,326	280,254	2,021	21,902
2009	955,190	695,615	238,012	1,798	19,766
2010	1,001,411	721,431	253,621	1,720	24,638
2011	956,470	689,316	243,168	1,668	22,319
2012	845,066	615,467	208,085	1,450	20,065
2013	879,078	638,327	219,635	1,356	19,761
2014	871,741	625,212	226,389	1,063	19,076
2015	758,578	549,724	189,966	861	18,028
Year 2014					
January	85,420	61,198	22,300	132	1,791
February	77,801	55,170	20,866	131	1,633
March	73,846	51,654	20,346	118	1,729
April	59,489	41,232	16,703	82	1,472
May	65,483	47,195	16,667	72	1,549
June	75,741	55,606	18,518	78	1,540
July	82,961	60,316	20,970	85	1,589
August	82,526	60,292	20,571	72	1,591
Sept	70,482	50,798	18,118	64	1,502
October	62,488	45,053	15,895	58	1,482
November	66,131	46,637	17,858	82	1,554
December	69,372	50,062	17,576	90	1,644
Year 2015					
January	72,972	51,621	19,579	96	1,676
February	68,510	48,679	18,248	91	1,491
March	59,851	43,106	15,071	88	1,586
April	49,922	36,897	11,567	64	1,394
May	58,637	43,616	13,514	62	1,444
June	70,540	51,415	17,624	64	1,437
July	78,327	57,115	19,580	68	1,565
August	75,514	54,868	19,023	63	1,560
Sept	66,404	47,655	17,215	58	1,477
October	55,268	39,851	13,984	61	1,372
November	50,925	36,466	12,882	70	1,507
December	51,707	38,433	11,678	77	1,520
Year 2016					
January	63,667	46,180	15,869	79	1,539
February	52,045	38,134	12,391	81	1,438
March	41,286	31,597	8,226	78	1,385
April	40,176	29,045	9,996	51	1,084
May	46,333	34,148	10,961	42	1,181
June	64,563	46,723	16,572	48	1,221
Year to Date					
2014	437,781	312,055	115,401	613	9,713
2015	380,432	275,335	95,604	464	9,028
2016	308,069	225,828	74,015	379	7,848
Rolling 12 Months Ending in June					
2015	814,392	588,493	206,593	914	18,391
2016	686,215	500,216	168,376	776	16,847

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 2014 and prior years are final. Values for 2015 and 2016 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, 2006-June 2016 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	73,821	53,529	17,179	327	2,786
2007	82,433	56,910	22,793	250	2,480
2008	53,846	38,995	13,152	160	1,538
2009	43,562	31,847	9,880	184	1,652
2010	40,103	30,806	8,278	164	855
2011	27,326	20,844	5,633	133	716
2012	22,604	17,521	4,110	272	702
2013	23,231	16,827	5,494	328	582
2014	31,531	19,652	10,689	451	739
2015	29,545	19,071	9,319	391	763
Year 2014					
January	10,190	4,468	5,487	112	122
February	3,117	1,879	1,099	58	81
March	3,476	1,917	1,443	43	72
April	1,556	1,283	200	31	42
May	1,647	1,296	274	22	56
June	1,502	1,179	246	27	50
July	1,696	1,308	311	24	53
August	1,751	1,310	372	23	45
Sept	1,645	1,296	274	24	50
October	1,550	1,218	251	28	53
November	1,681	1,230	362	28	60
December	1,721	1,268	368	30	54
Year 2015					
January	3,356	2,097	1,120	55	85
February	8,725	3,668	4,774	164	119
March	1,828	1,261	471	25	72
April	1,550	1,248	229	17	57
May	1,740	1,274	375	20	70
June	1,773	1,409	286	20	57
July	2,041	1,540	423	24	54
August	1,861	1,453	337	22	49
Sept	1,719	1,265	392	16	45
October	1,555	1,234	268	9	44
November	1,760	1,389	306	8	57
December	1,637	1,233	339	11	55
Year 2016					
January	2,380	1,713	592	11	64
February	2,129	1,435	629	14	NM
March	1,389	1,073	275	NM	34
April	1,335	1,042	252	10	32
May	1,601	1,207	325	NM	58
June	1,605	1,268	281	9	46
Year to Date					
2014	21,488	12,022	8,750	293	423
2015	18,972	10,957	7,255	300	460
2016	10,440	7,739	2,355	62	285
Rolling 12 Months Ending in June					
2015	29,015	18,587	9,194	458	776
2016	21,012	15,853	4,419	NM	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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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, 2006-June 2016 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	14,077	0	1,153	559	12,365
2007	13,462	0	1,303	441	11,718
2008	7,533	0	1,311	461	5,762
2009	8,128	0	1,301	293	6,534
2010	4,866	0	1,086	212	3,567
2011	3,826	0	1,004	168	2,654
2012	3,097	0	992	122	1,984
2013	3,456	0	1,050	498	1,908
2014	3,099	64	1,170	216	1,650
2015	3,081	64	1,223	184	1,610
Year 2014					
January	643	45	189	115	294
February	336	5	88	44	199
March	301	7	101	27	165
April	203	0	86	4	114
May	211	1	89	5	116
June	208	1	90	3	114
July	195	1	93	4	97
August	201	1	108	3	89
Sept	173	1	62	2	109
October	208	0	92	2	114
November	220	0	90	4	125
December	200	1	80	4	114
Year 2015					
January	329	9	109	26	185
February	551	46	205	61	238
March	242	1	90	12	139
April	207	0	83	7	116
May	215	0	86	10	119
June	215	1	83	10	121
July	219	1	98	12	109
August	201	1	92	10	98
Sept	240	1	94	9	136
October	220	2	101	8	108
November	226	1	89	9	128
December	216	1	94	10	112
Year 2016					
January	242	4	87	18	133
February	219	7	72	16	NM
March	180	0	91	NM	80
April	189	1	82	11	95
May	225	0	89	NM	123
June	211	1	80	11	118
Year to Date					
2014	1,902	59	644	198	1,001
2015	1,758	57	655	126	919
2016	1,266	14	501	78	672
Rolling 12 Months Ending in June					
2015	2,955	62	1,181	144	1,567
2016	2,589	20	1,069	NM	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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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, 2006-June 2016 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	87,898	53,529	18,332	886	15,150
2007	95,895	56,910	24,097	691	14,198
2008	61,379	38,995	14,463	621	7,300
2009	51,690	31,847	11,181	477	8,185
2010	44,968	30,806	9,364	376	4,422
2011	31,152	20,844	6,637	301	3,370
2012	25,702	17,521	5,102	394	2,685
2013	26,687	16,827	6,544	826	2,490
2014	34,630	19,716	11,859	667	2,389
2015	32,626	19,135	10,543	575	2,373
Year 2014					
January	10,833	4,513	5,677	227	416
February	3,453	1,885	1,187	101	280
March	3,776	1,924	1,545	70	237
April	1,760	1,283	286	35	156
May	1,858	1,296	363	27	172
June	1,711	1,180	336	30	164
July	1,890	1,309	404	28	150
August	1,952	1,311	481	26	134
Sept	1,818	1,297	336	26	159
October	1,758	1,219	343	30	166
November	1,900	1,230	453	32	186
December	1,921	1,269	449	34	169
Year 2015					
January	3,685	2,105	1,229	81	271
February	9,276	3,715	4,979	225	357
March	2,070	1,262	561	37	211
April	1,757	1,248	311	24	173
May	1,954	1,274	461	30	189
June	1,988	1,410	369	30	179
July	2,260	1,540	521	36	163
August	2,062	1,454	429	32	147
Sept	1,959	1,266	487	25	182
October	1,774	1,236	369	17	152
November	1,986	1,390	394	17	185
December	1,854	1,234	432	21	166
Year 2016					
January	2,623	1,717	680	29	197
February	2,348	1,443	701	30	NM
March	1,569	1,074	367	NM	114
April	1,524	1,043	333	21	127
May	1,826	1,207	414	NM	181
June	1,816	1,270	362	20	164
Year to Date					
2014	23,390	12,081	9,393	491	1,425
2015	20,730	11,014	7,910	427	1,379
2016	11,705	7,753	2,856	139	957
Rolling 12 Months Ending in June					
2015	31,970	18,649	10,375	602	2,343
2016	23,601	15,874	5,489	NM	NM

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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, 2006-June 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	7,363	3,619	3,286	1	456
2007	6,036	2,808	2,715	2	512
2008	5,417	2,296	2,704	1	416
2009	4,821	2,761	1,724	1	335
2010	4,994	3,325	1,354	2	313
2011	5,012	3,449	1,277	1	286
2012	3,675	2,105	756	1	812
2013	4,852	3,409	779	1	662
2014	4,412	3,440	599	2	371
2015	4,088	3,119	672	2	295
Year 2014					
January	436	349	55	0	32
February	361	275	56	0	30
March	421	332	57	0	31
April	303	212	55	0	36
May	393	314	49	0	30
June	418	339	46	0	33
July	385	299	54	0	33
August	382	298	51	0	33
Sept	372	281	62	0	29
October	230	178	23	0	29
November	288	228	33	0	27
December	424	335	60	0	29
Year 2015					
January	400	312	57	0	30
February	419	332	57	0	31
March	278	195	60	0	23
April	301	213	59	0	29
May	343	260	59	0	23
June	305	233	55	0	17
July	421	333	59	0	28
August	397	311	59	0	27
Sept	381	294	61	0	26
October	312	231	57	0	24
November	253	174	62	0	NM
December	278	230	26	0	21
Year 2016					
January	346	302	17	0	27
February	331	272	39	0	19
March	369	283	63	0	23
April	396	326	43	0	27
May	376	296	52	0	28
June	387	308	52	0	27
Year to Date					
2014	2,331	1,821	317	1	192
2015	2,045	1,545	347	1	153
2016	2,205	1,786	268	1	151
Rolling 12 Months Ending in June					
2015	4,126	3,164	628	2	331
2016	4,248	3,360	592	2	NM

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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.
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Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2006-June 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	1,259	0	195	9	1,055
2007	1,262	0	162	11	1,090
2008	897	0	119	9	769
2009	1,007	0	126	8	873
2010	1,059	0	98	11	950
2011	1,080	0	112	6	962
2012	1,346	0	113	11	1,222
2013	1,486	0	96	11	1,379
2014	1,283	3	90	16	1,174
2015	1,362	9	110	16	1,227
Year 2014					
January	105	0	9	2	95
February	93	1	7	1	84
March	106	0	8	2	96
April	116	0	9	2	105
May	110	0	8	1	102
June	109	0	0	0	109
July	114	0	5	0	109
August	112	0	9	2	101
Sept	113	0	9	2	102
October	86	0	9	1	75
November	104	1	9	2	92
December	114	0	9	2	103
Year 2015					
January	140	0	10	2	128
February	135	1	9	2	124
March	147	1	9	2	136
April	120	1	9	1	108
May	101	1	10	0	90
June	116	2	9	0	106
July	104	1	9	0	94
August	104	0	9	2	94
Sept	107	0	8	2	97
October	83	1	8	2	72
November	117	3	10	2	NM
December	87	0	10	1	75
Year 2016					
January	83	0	10	2	70
February	100	0	9	2	88
March	109	0	10	2	97
April	71	0	6	0	64
May	70	0	6	0	64
June	75	0	8	0	67
Year to Date					
2014	639	1	40	7	590
2015	760	5	55	8	692
2016	509	1	50	6	451
Rolling 12 Months Ending in June					
2015	1,404	7	104	17	1,276
2016	1,111	6	104	15	NM

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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.
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Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-June 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	8,622	3,619	3,482	10	1,511
2007	7,299	2,808	2,877	12	1,602
2008	6,314	2,296	2,823	10	1,184
2009	5,828	2,761	1,850	9	1,209
2010	6,053	3,325	1,452	12	1,264
2011	6,092	3,449	1,388	6	1,248
2012	5,021	2,105	869	13	2,034
2013	6,338	3,409	875	12	2,041
2014	5,695	3,443	689	18	1,545
2015	5,450	3,128	781	18	1,522
Year 2014					
January	541	349	63	2	127
February	454	276	63	2	113
March	527	332	65	2	128
April	418	212	64	2	141
May	504	314	57	1	132
June	527	339	46	0	141
July	499	299	58	0	142
August	494	298	59	2	134
Sept	485	281	70	2	131
October	316	178	32	2	104
November	393	229	42	2	120
December	538	335	69	2	132
Year 2015					
January	540	313	67	3	158
February	555	332	65	2	155
March	425	196	69	2	159
April	420	213	68	2	137
May	444	261	69	0	113
June	422	235	64	0	123
July	525	334	68	0	123
August	501	311	68	2	121
Sept	488	294	70	2	122
October	396	232	66	2	96
November	370	177	72	2	NM
December	365	230	37	2	96
Year 2016					
January	429	302	27	3	98
February	431	272	49	2	108
March	478	283	74	2	119
April	467	326	50	0	91
May	447	296	58	0	92
June	463	308	60	0	94
Year to Date					
2014	2,970	1,822	358	8	782
2015	2,805	1,550	402	9	845
2016	2,714	1,787	317	7	602
Rolling 12 Months Ending in June					
2015	5,530	3,171	733	19	1,607
2016	5,359	3,366	697	16	NM

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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, 2006-June 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	6,461,615	2,478,396	3,412,826	34,623	535,770
2007	7,089,342	2,736,418	3,765,194	34,087	553,643
2008	6,895,843	2,730,134	3,612,197	33,403	520,109
2009	7,121,069	2,911,279	3,655,712	34,279	519,799
2010	7,680,185	3,290,993	3,794,423	39,462	555,307
2011	7,883,865	3,446,087	3,819,107	47,170	571,501
2012	9,484,710	4,101,927	4,686,260	63,116	633,407
2013	8,596,299	3,970,447	3,917,131	66,570	642,152
2014	8,544,387	3,895,008	3,954,032	71,957	623,390
2015	10,048,346	4,733,041	4,624,104	73,547	617,654
Year 2014					
January	694,661	324,657	309,522	6,411	54,071
February	579,819	265,645	261,103	5,180	47,892
March	591,101	271,638	263,442	5,292	50,729
April	579,336	270,132	256,256	4,967	47,981
May	680,193	323,448	300,470	5,761	50,513
June	754,126	348,327	349,049	6,119	50,630
July	880,805	393,011	425,395	6,966	55,433
August	935,170	426,346	445,556	7,430	55,839
Sept	805,960	355,962	391,332	6,396	52,270
October	736,039	323,456	356,020	5,939	50,625
November	633,279	288,760	287,096	5,496	51,927
December	673,898	303,627	308,792	5,999	55,480
Year 2015					
January	747,937	342,461	344,326	6,033	55,117
February	677,621	326,498	299,026	5,199	46,898
March	736,005	346,153	335,668	6,169	48,015
April	694,463	328,898	314,913	5,271	45,382
May	768,905	358,129	355,250	6,174	49,353
June	926,723	446,829	421,584	6,182	52,128
July	1,088,254	511,438	514,942	6,765	55,110
August	1,069,342	498,759	508,301	6,936	55,346
Sept	933,818	434,832	440,230	6,418	52,339
October	827,292	383,229	388,757	6,080	49,227
November	770,211	365,775	345,943	6,088	52,403
December	807,773	390,040	355,164	6,233	56,336
Year 2016					
January	808,418	388,873	360,075	6,291	53,178
February	722,190	352,524	314,536	5,583	49,547
March	772,107	379,420	334,202	6,005	52,479
April	757,330	368,386	333,568	5,277	50,098
May	839,403	407,322	374,139	5,484	52,459
June	1,011,265	501,713	449,310	6,080	54,162
Year to Date					
2014	3,879,236	1,803,847	1,739,842	33,730	301,816
2015	4,551,656	2,148,968	2,070,767	35,028	296,893
2016	4,910,712	2,398,238	2,165,830	34,721	311,923
Rolling 12 Months Ending in June					
2015	9,216,807	4,240,129	4,284,957	73,254	618,467
2016	10,407,402	4,982,311	4,719,167	73,240	632,683

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Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2006-June 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	942,817	0	330,878	33,112	578,828
2007	872,579	0	339,796	35,987	496,796
2008	793,537	0	326,048	32,813	434,676
2009	816,787	0	305,542	41,275	469,970
2010	821,775	0	301,769	46,324	473,683
2011	839,681	0	308,669	39,856	491,155
2012	886,103	0	322,607	47,883	515,613
2013	882,385	0	303,177	51,057	528,151
2014	865,146	4,926	292,016	46,635	521,569
2015	919,958	8,525	305,425	53,462	552,546
Year 2014					
January	87,362	527	28,175	7,205	51,455
February	68,875	539	23,822	3,527	40,988
March	72,690	476	25,252	3,245	43,717
April	67,023	286	22,224	3,085	41,428
May	67,861	224	22,787	3,272	41,578
June	67,490	274	23,101	3,460	40,656
July	72,370	267	24,630	3,749	43,724
August	74,882	441	25,464	4,031	44,946
Sept	69,772	367	23,285	3,731	42,390
October	71,722	431	23,484	3,776	44,032
November	70,483	534	24,002	3,672	42,274
December	74,615	561	25,790	3,883	44,381
Year 2015					
January	79,362	751	26,697	4,911	47,004
February	73,002	721	24,341	4,545	43,395
March	80,866	586	26,950	4,709	48,621
April	73,667	589	24,070	3,935	45,072
May	74,544	584	24,665	4,259	45,036
June	73,185	637	24,293	4,153	44,103
July	77,182	755	26,611	4,322	45,493
August	79,498	851	26,684	4,459	47,504
Sept	74,870	753	26,024	4,545	43,548
October	75,092	687	24,958	4,243	45,205
November	77,529	779	24,812	4,582	47,356
December	81,160	830	25,321	4,799	50,210
Year 2016					
January	83,303	1,101	26,477	5,163	50,563
February	75,776	955	23,992	4,773	46,056
March	78,329	933	25,132	4,746	47,518
April	76,801	637	23,407	4,994	47,763
May	76,262	612	25,199	4,580	45,871
June	76,266	753	24,985	4,380	46,148
Year to Date					
2014	431,302	2,326	145,361	23,793	259,822
2015	454,626	3,868	151,016	26,512	273,230
2016	466,736	4,990	149,190	28,636	283,919
Rolling 12 Months Ending in June					
2015	888,471	6,468	297,671	49,354	534,977
2016	932,068	9,647	303,600	55,587	563,235

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

Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-June 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	7,404,432	2,478,396	3,743,704	67,735	1,114,597
2007	7,961,922	2,736,418	4,104,991	70,074	1,050,439
2008	7,689,380	2,730,134	3,938,245	66,216	954,785
2009	7,937,856	2,911,279	3,961,254	75,555	989,769
2010	8,501,960	3,290,993	4,096,192	85,786	1,028,990
2011	8,723,546	3,446,087	4,127,777	87,026	1,062,657
2012	10,370,812	4,101,927	5,008,867	110,999	1,149,020
2013	9,478,685	3,970,447	4,220,309	117,626	1,170,303
2014	9,409,532	3,899,934	4,246,048	118,591	1,144,959
2015	10,968,304	4,741,566	4,929,529	127,009	1,170,200
Year 2014					
January	782,023	325,184	337,697	13,616	105,526
February	648,695	266,184	284,925	8,706	88,880
March	663,791	272,114	288,694	8,537	94,446
April	646,360	270,418	278,481	8,052	89,409
May	748,053	323,672	323,257	9,033	92,091
June	821,616	348,601	372,150	9,580	91,286
July	953,174	393,278	450,025	10,715	99,157
August	1,010,052	426,786	471,019	11,461	100,785
Sept	875,732	356,329	414,618	10,126	94,659
October	807,761	323,887	379,503	9,715	94,657
November	703,762	289,294	311,098	9,169	94,202
December	748,513	304,188	334,581	9,883	99,861
Year 2015					
January	827,300	343,212	371,023	10,944	102,121
February	750,623	327,219	323,367	9,744	90,293
March	816,872	346,739	362,619	10,878	96,636
April	768,130	329,487	338,983	9,206	90,454
May	843,449	358,712	379,915	10,433	94,388
June	999,909	447,466	445,877	10,335	96,231
July	1,165,436	512,193	541,554	11,087	100,603
August	1,148,840	499,610	534,984	11,395	102,850
Sept	1,008,688	435,585	466,254	10,963	95,887
October	902,384	383,916	413,714	10,322	94,431
November	847,739	366,555	370,755	10,671	99,759
December	888,933	390,870	380,485	11,032	106,546
Year 2016					
January	891,720	389,973	386,552	11,454	103,741
February	797,966	353,479	338,528	10,357	95,602
March	850,435	380,353	359,334	10,751	99,997
April	834,131	369,023	356,975	10,271	97,861
May	915,665	407,934	399,338	10,064	98,330
June	1,087,531	502,466	474,295	10,460	100,310
Year to Date					
2014	4,310,537	1,806,173	1,885,203	57,523	561,638
2015	5,006,283	2,152,836	2,221,783	61,540	570,123
2016	5,377,448	2,403,229	2,315,020	63,357	595,842
Rolling 12 Months Ending in June					
2015	10,105,278	4,246,597	4,582,628	122,608	1,153,444
2016	11,339,469	4,991,958	5,022,766	128,827	1,195,918

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

Table 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2006-June 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	160,033	16,617	136,108	6,644	664
2007	166,774	17,442	144,104	4,598	630
2008	195,777	20,465	169,547	5,235	530
2009	206,792	19,583	180,689	5,931	589
2010	218,331	19,975	192,428	5,535	393
2011	232,795	22,086	180,856	29,469	384
2012	256,376	25,193	201,965	26,672	2,545
2013	271,967	27,259	211,942	28,143	4,623
2014	285,982	25,819	228,447	27,038	4,678
2015	326,455	31,112	263,077	27,041	5,225
Year 2014					
January	24,810	2,187	19,717	2,506	401
February	23,764	1,997	19,121	2,289	357
March	24,623	2,107	19,714	2,388	414
April	24,489	2,133	19,679	2,260	416
May	24,111	2,136	19,380	2,190	404
June	24,096	2,173	19,233	2,294	396
July	26,390	2,372	21,117	2,498	404
August	25,163	2,332	20,037	2,403	391
Sept	23,690	2,143	18,898	2,290	359
October	21,697	2,148	17,099	2,092	358
November	20,698	2,030	16,561	1,723	385
December	22,451	2,062	17,892	2,105	393
Year 2015					
January	28,955	2,743	22,785	2,902	525
February	25,187	2,354	19,871	2,499	462
March	27,068	2,540	21,358	2,676	494
April	26,169	2,554	21,454	1,814	346
May	27,389	2,540	22,528	1,932	389
June	26,408	2,629	21,537	1,876	366
July	28,301	2,783	23,092	2,018	407
August	28,004	2,720	22,933	1,962	389
Sept	25,387	2,434	20,776	1,817	359
October	27,510	2,547	22,111	2,368	483
November	27,126	2,488	21,445	2,683	509
December	28,952	2,778	23,185	2,493	495
Year 2016					
January	28,588	2,679	22,961	2,479	469
February	25,794	2,456	20,747	2,181	410
March	26,295	2,453	20,637	2,687	518
April	26,741	2,577	21,776	1,933	455
May	27,251	2,595	22,214	1,978	464
June	25,857	2,384	21,381	1,724	369
Year to Date					
2014	145,892	12,733	116,844	13,927	2,388
2015	161,176	15,360	129,533	13,700	2,583
2016	160,525	15,143	129,715	12,982	2,685
Rolling 12 Months Ending in June					
2015	301,266	28,446	241,136	26,811	4,872
2016	325,804	30,895	263,259	26,323	5,327

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2006-June 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	2,051	0	525	1,094	433
2007	1,988	0	386	1,102	501
2008	1,025	0	454	433	138
2009	793	0	545	176	72
2010	1,623	0	1,195	370	58
2011	3,195	0	2,753	351	91
2012	3,189	0	2,788	340	61
2013	831	0	261	423	147
2014	1,710	176	525	674	335
2015	2,997	209	1,376	917	495
Year 2014					
January	169	20	62	61	25
February	148	18	64	44	23
March	132	19	41	44	27
April	137	19	28	60	30
May	144	19	33	64	29
June	154	17	54	54	29
July	179	14	70	64	30
August	161	15	62	55	30
Sept	140	14	47	51	28
October	101	2	21	53	25
November	112	3	17	64	29
December	132	15	26	61	30
Year 2015					
January	562	17	251	182	112
February	527	16	232	178	101
March	386	17	169	128	72
April	69	17	38	14	0
May	72	18	39	16	0
June	69	18	35	16	0
July	93	19	49	23	2
August	82	18	40	22	2
Sept	66	17	35	15	0
October	267	17	130	68	51
November	476	17	204	163	92
December	328	19	153	93	63
Year 2016					
January	437	18	189	146	84
February	401	0	195	117	89
March	575	0	295	145	134
April	470	0	237	121	112
May	225	0	117	54	54
June	97	0	64	19	14
Year to Date					
2014	885	113	283	327	163
2015	1,685	103	764	532	286
2016	2,206	18	1,098	603	487
Rolling 12 Months Ending in June					
2015	2,510	166	1,006	879	458
2016	3,518	124	1,709	988	696

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

Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-June 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	162,084	16,617	136,632	7,738	1,096
2007	168,762	17,442	144,490	5,699	1,131
2008	196,802	20,465	170,001	5,668	668
2009	207,585	19,583	181,234	6,106	661
2010	219,954	19,975	193,623	5,905	451
2011	235,990	22,086	183,609	29,820	474
2012	259,564	25,193	204,753	27,012	2,606
2013	272,798	27,259	212,203	28,566	4,770
2014	287,692	25,995	228,971	27,713	5,013
2015	329,451	31,320	264,453	27,958	5,720
Year 2014					
January	24,980	2,207	19,779	2,567	426
February	23,912	2,014	19,185	2,334	379
March	24,755	2,126	19,755	2,432	442
April	24,625	2,152	19,708	2,320	446
May	24,255	2,155	19,413	2,254	433
June	24,250	2,190	19,287	2,348	425
July	26,569	2,386	21,187	2,561	434
August	25,324	2,347	20,099	2,458	421
Sept	23,830	2,158	18,944	2,341	387
October	21,798	2,150	17,119	2,145	383
November	20,811	2,033	16,578	1,786	414
December	22,584	2,077	17,918	2,166	423
Year 2015					
January	29,517	2,760	23,036	3,084	637
February	25,713	2,369	20,104	2,677	563
March	27,453	2,557	21,527	2,803	566
April	26,238	2,572	21,492	1,828	346
May	27,462	2,557	22,567	1,948	389
June	26,477	2,647	21,572	1,892	366
July	28,394	2,802	23,142	2,041	409
August	28,086	2,738	22,973	1,984	391
Sept	25,453	2,451	20,811	1,832	359
October	27,777	2,565	22,241	2,436	534
November	27,602	2,505	21,649	2,846	601
December	29,280	2,797	23,339	2,586	557
Year 2016					
January	29,025	2,698	23,149	2,625	553
February	26,195	2,456	20,942	2,298	499
March	26,870	2,453	20,932	2,833	653
April	27,211	2,577	22,013	2,054	567
May	27,476	2,595	22,331	2,032	518
June	25,954	2,384	21,445	1,743	382
Year to Date					
2014	146,777	12,845	117,126	14,255	2,551
2015	162,861	15,462	130,298	14,232	2,868
2016	162,731	15,162	130,813	13,585	3,172
Rolling 12 Months Ending in June					
2015	303,776	28,612	242,143	27,690	5,330
2016	329,322	31,020	264,968	27,311	6,023

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2006-June 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	19,629	500	17,343	1,761	25
2007	19,576	553	17,116	1,785	122
2008	19,805	509	17,487	1,809	0
2009	19,669	465	17,048	2,155	0
2010	19,437	402	16,802	2,233	0
2011	16,972	388	14,625	1,955	4
2012	16,968	418	14,235	2,304	12
2013	17,007	456	14,057	2,485	8
2014	16,706	444	13,809	2,447	6
2015	15,643	766	12,670	2,202	4
Year 2014					
January	1,381	28	1,131	221	0
February	1,205	24	1,014	166	0
March	1,390	38	1,165	187	0
April	1,371	44	1,127	200	0
May	1,455	42	1,200	214	1
June	1,418	40	1,170	207	1
July	1,489	44	1,224	220	1
August	1,469	38	1,210	220	1
Sept	1,384	38	1,141	205	1
October	1,374	40	1,133	200	0
November	1,373	32	1,139	201	0
December	1,397	36	1,155	205	1
Year 2015					
January	1,293	31	1,068	194	1
February	1,137	24	944	168	1
March	1,230	28	1,010	192	1
April	1,241	41	1,020	180	0
May	1,297	45	1,076	176	0
June	1,322	44	1,103	175	0
July	1,451	104	1,153	194	0
August	1,386	101	1,105	181	0
Sept	1,289	97	1,010	183	0
October	1,297	94	1,028	174	1
November	1,307	70	1,042	194	1
December	1,393	89	1,111	193	1
Year 2016					
January	1,333	95	1,058	179	1
February	1,210	83	972	154	1
March	1,267	95	963	207	1
April	1,365	75	1,097	191	NM
May	1,379	104	1,094	180	0
June	1,376	40	1,154	181	0
Year to Date					
2014	8,220	217	6,806	1,195	2
2015	7,520	212	6,221	1,084	2
2016	7,930	493	6,340	1,093	4
Rolling 12 Months Ending in June					
2015	16,006	440	13,224	2,336	6
2016	16,052	1,047	12,789	2,211	NM

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Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2006-June 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	2,840	0	725	1,595	520
2007	2,219	0	768	1,136	315
2008	2,328	0	806	1,514	8
2009	2,426	0	823	1,466	137
2010	2,287	0	819	1,316	152
2011	2,044	0	742	1,148	154
2012	1,986	0	522	1,273	190
2013	1,865	0	517	1,160	187
2014	1,955	0	650	1,104	200
2015	1,853	0	648	1,033	172
Year 2014					
January	203	0	59	126	17
February	140	0	49	76	15
March	154	0	52	86	15
April	155	0	58	82	15
May	166	0	57	92	18
June	163	0	57	90	16
July	164	0	54	93	17
August	161	0	47	92	22
Sept	157	0	48	92	18
October	165	0	56	93	17
November	158	0	55	88	15
December	169	0	59	93	17
Year 2015					
January	170	0	68	89	14
February	129	0	48	71	10
March	164	0	60	89	14
April	161	0	54	91	16
May	156	0	48	93	15
June	143	0	45	83	15
July	160	0	54	90	16
August	146	0	51	81	14
Sept	149	0	48	86	15
October	159	0	57	87	15
November	149	0	55	81	13
December	167	0	60	92	15
Year 2016					
January	155	0	63	81	12
February	163	0	73	78	12
March	194	0	82	98	14
April	153	0	51	90	NM
May	157	0	50	93	14
June	153	0	52	87	14
Year to Date					
2014	981	0	332	553	96
2015	923	0	323	516	84
2016	974	0	370	527	77
Rolling 12 Months Ending in June					
2015	1,897	0	641	1,067	188
2016	1,905	0	695	1,043	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-June 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	22,469	500	18,068	3,356	545
2007	21,796	553	17,885	2,921	437
2008	22,134	509	18,294	3,323	8
2009	22,095	465	17,872	3,622	137
2010	21,725	402	17,621	3,549	152
2011	19,016	388	15,367	3,103	158
2012	18,954	418	14,757	3,577	203
2013	18,871	456	14,574	3,646	195
2014	18,661	444	14,459	3,551	206
2015	17,496	766	13,318	3,235	177
Year 2014					
January	1,584	28	1,190	347	18
February	1,345	24	1,063	242	15
March	1,544	38	1,217	273	16
April	1,526	44	1,184	283	15
May	1,622	42	1,256	306	18
June	1,581	40	1,227	297	17
July	1,653	44	1,279	313	18
August	1,629	38	1,257	312	22
Sept	1,541	38	1,188	297	18
October	1,540	40	1,189	293	17
November	1,531	32	1,194	289	15
December	1,566	36	1,214	299	17
Year 2015					
January	1,463	31	1,135	282	15
February	1,266	24	992	239	11
March	1,394	28	1,070	281	14
April	1,402	41	1,074	270	16
May	1,453	45	1,123	269	16
June	1,465	44	1,148	258	15
July	1,611	104	1,207	284	16
August	1,532	101	1,156	261	14
Sept	1,438	97	1,057	269	15
October	1,456	94	1,085	261	16
November	1,455	70	1,097	274	14
December	1,561	89	1,171	285	16
Year 2016					
January	1,488	95	1,121	260	13
February	1,373	83	1,045	232	13
March	1,461	95	1,045	305	15
April	1,517	75	1,148	281	NM
May	1,535	104	1,145	273	14
June	1,529	40	1,206	268	14
Year to Date					
2014	9,201	217	7,138	1,748	98
2015	8,443	212	6,544	1,601	86
2016	8,904	493	6,710	1,620	81
Rolling 12 Months Ending in June					
2015	17,903	440	13,865	3,404	194
2016	17,957	1,047	13,484	3,254	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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 2014 and prior years are final. Values for 2015 and 2016 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, 2006-June 2016 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	350,074	27,455	135,546	269	186,803
2007	353,025	31,568	132,953	284	188,220
2008	338,786	29,150	130,122	287	179,227
2009	320,444	29,565	130,894	274	159,712
2010	349,530	40,167	137,072	274	172,016
2011	347,623	35,474	130,108	482	181,559
2012	390,342	32,723	138,217	478	218,924
2013	397,929	43,363	143,721	536	210,308
2014	431,285	45,643	174,513	961	210,167
2015	423,964	43,996	175,037	723	204,209
Year 2014					
January	37,135	4,268	14,488	150	18,228
February	33,670	3,805	13,442	125	16,298
March	36,751	4,396	14,837	87	17,430
April	31,558	2,624	12,884	43	16,007
May	32,416	2,959	12,100	67	17,290
June	37,105	3,977	15,346	124	17,658
July	39,028	4,052	16,069	81	18,827
August	38,477	4,275	15,672	69	18,461
Sept	35,553	3,720	14,839	54	16,940
October	35,086	3,777	13,871	64	17,375
November	36,209	3,715	15,424	46	17,025
December	38,296	4,075	15,542	51	18,628
Year 2015					
January	37,759	4,213	15,381	82	18,083
February	34,463	3,571	14,764	75	16,053
March	34,574	3,449	14,233	63	16,829
April	30,594	2,416	12,332	56	15,790
May	34,107	3,398	14,280	72	16,357
June	35,586	3,806	14,827	41	16,912
July	39,299	4,630	16,262	80	18,327
August	38,913	4,539	16,512	45	17,817
Sept	34,715	3,479	13,872	58	17,305
October	32,887	3,255	12,881	62	16,690
November	34,399	3,405	14,293	36	16,666
December	36,669	3,834	15,400	53	17,381
Year 2016					
January	35,775	4,263	14,257	65	17,190
February	34,677	4,008	14,416	75	16,179
March	34,301	3,536	14,096	44	16,625
April	26,183	2,673	9,712	44	13,754
May	28,438	2,756	10,741	24	14,917
June	31,642	3,944	12,505	81	15,111
Year to Date					
2014	208,636	22,031	83,097	596	102,912
2015	207,083	20,854	85,817	390	100,023
2016	191,017	21,180	75,727	333	93,777
Rolling 12 Months Ending in June					
2015	429,732	44,466	177,233	754	207,279
2016	407,898	44,322	164,948	666	197,962

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 2014 and prior years are final. Values for 2015 and 2016 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, 2006-June 2016 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	1,049,161	0	18,814	1,045	1,029,303
2007	982,486	0	21,435	1,756	959,296
2008	923,889	0	18,075	1,123	904,690
2009	816,285	0	19,587	1,135	795,563
2010	876,041	0	18,357	1,064	856,620
2011	893,314	0	16,577	1,022	875,716
2012	883,158	0	19,251	949	862,958
2013	919,631	0	20,342	950	898,339
2014	946,344	8,835	22,262	3,766	911,481
2015	923,637	9,244	18,028	3,532	892,833
Year 2014					
January	80,405	649	1,975	311	77,469
February	73,581	733	1,988	271	70,589
March	80,081	875	2,027	342	76,837
April	77,233	678	1,914	246	74,395
May	76,839	773	1,454	338	74,274
June	79,101	683	1,848	400	76,170
July	80,733	767	1,876	351	77,739
August	82,539	722	1,908	346	79,564
Sept	76,170	573	1,706	296	73,596
October	78,477	737	1,894	285	75,561
November	78,316	728	1,738	271	75,578
December	82,869	916	1,935	309	79,709
Year 2015					
January	84,158	862	1,703	374	81,220
February	74,527	821	1,628	353	71,725
March	75,574	767	1,575	306	72,926
April	76,652	600	1,563	300	74,190
May	77,079	771	792	141	75,375
June	76,022	797	1,438	251	73,536
July	78,843	773	1,682	357	76,031
August	77,221	769	1,752	269	74,431
Sept	74,010	703	1,583	311	71,413
October	75,840	740	1,270	269	73,561
November	74,605	712	1,377	278	72,238
December	79,104	929	1,665	324	76,187
Year 2016					
January	79,935	840	1,732	470	76,893
February	72,962	884	1,727	396	69,956
March	73,615	860	1,312	259	71,183
April	73,175	693	1,381	342	70,758
May	75,816	644	1,258	268	73,646
June	76,520	547	1,420	373	74,179
Year to Date					
2014	467,240	4,392	11,205	1,909	449,734
2015	464,012	4,618	8,698	1,726	448,971
2016	452,022	4,469	8,831	2,107	436,615
Rolling 12 Months Ending in June					
2015	943,117	9,061	19,755	3,584	910,718
2016	911,647	9,095	18,161	3,914	880,477

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 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.8.A. Consumption of Coal for Electricity Generation by State, by Sector, June 2016 and June 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	60	4	NM	0	3	59	1	0	0	NM	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	1	1	4.1%	0	0	1	1	0	0	0	0
Massachusetts	59	NM	NM	0	0	59	0	0	0	NM	NM
New Hampshire	0	3	-97.0%	0	3	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	2,342	2,710	-14.0%	0	0	2,326	2,691	NM	NM	17	19
New Jersey	42	44	-5.8%	0	0	42	44	0	0	0	0
New York	59	66	-12.0%	0	0	53	60	0	0	6	6
Pennsylvania	2,242	2,600	-14.0%	0	0	2,231	2,586	NM	NM	11	14
East North Central	13,403	14,450	-7.2%	8,212	9,195	5,127	5,179	2	4	62	71
Illinois	3,659	4,005	-8.6%	497	486	3,117	3,471	NM	NM	44	47
Indiana	3,205	3,517	-8.9%	3,071	3,273	132	243	1	1	NM	NM
Michigan	2,113	2,512	-16.0%	2,089	2,485	19	21	0	2	6	4
Ohio	2,603	2,495	4.3%	741	1,046	1,858	1,445	NM	NM	3	4
Wisconsin	1,823	1,921	-5.1%	1,814	1,906	0	0	NM	NM	9	16
West North Central	10,508	11,300	-7.0%	10,403	11,168	NM	1	3	4	101	125
Iowa	1,634	1,673	-2.4%	1,573	1,604	0	0	3	3	57	67
Kansas	1,477	1,535	-3.8%	1,477	1,535	0	0	0	0	0	0
Minnesota	1,147	1,368	-16.0%	1,125	1,337	0	0	NM	0	22	31
Missouri	3,286	3,568	-7.9%	3,283	3,564	NM	1	0	2	NM	1
Nebraska	1,097	1,322	-17.0%	1,082	1,300	0	0	0	0	16	22
North Dakota	1,731	1,833	-5.6%	1,727	1,828	0	0	0	0	4	5
South Dakota	137	0	--	137	0	0	0	0	0	0	0
South Atlantic	10,331	10,713	-3.6%	9,155	9,465	1,142	1,199	NM	NM	31	45
Delaware	3	18	-81.0%	0	0	3	18	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,792	1,920	-6.7%	1,754	1,840	33	76	0	0	NM	NM
Georgia	2,113	2,125	-0.6%	2,108	2,121	0	0	0	0	NM	NM
Maryland	562	666	-16.0%	0	0	560	664	0	NM	2	2
North Carolina	1,688	1,883	-10.0%	1,649	1,833	NM	NM	1	1	NM	NM
South Carolina	872	966	-9.7%	868	961	0	0	0	0	NM	5
Virginia	722	717	0.7%	696	659	19	50	NM	NM	NM	NM
West Virginia	2,579	2,419	6.6%	2,081	2,051	494	349	0	0	4	19
East South Central	6,554	7,354	-11.0%	6,227	7,071	309	264	0	0	17	19
Alabama	1,601	2,224	-28.0%	1,598	2,222	0	0	0	0	NM	NM
Kentucky	2,718	3,063	-11.0%	2,718	3,063	0	0	0	0	0	0
Mississippi	502	458	9.6%	193	194	309	264	0	0	0	0
Tennessee	1,733	1,609	7.7%	1,718	1,592	0	0	0	0	14	17
West South Central	12,144	12,992	-6.5%	5,527	6,268	6,600	6,705	0	0	NM	NM
Arkansas	1,172	1,346	-13.0%	994	1,105	178	239	0	0	1	1
Louisiana	924	1,069	-14.0%	574	640	351	429	0	0	0	0
Oklahoma	1,005	1,559	-36.0%	863	1,429	126	111	0	0	NM	NM
Texas	9,043	9,018	0.3%	3,097	3,093	5,946	5,925	0	0	0	0
Mountain	7,770	9,007	-14.0%	7,049	7,973	662	970	0	0	60	63
Arizona	1,495	1,839	-19.0%	1,495	1,839	0	0	0	0	0	0
Colorado	1,459	1,574	-7.3%	1,457	1,571	NM	NM	0	0	NM	NM
Idaho	1	1	-22.0%	0	0	0	0	0	0	1	1
Montana	577	877	-34.0%	NM	NM	556	853	0	0	NM	NM
Nevada	116	134	-13.0%	65	86	51	49	0	0	0	0
New Mexico	1,148	1,060	8.3%	1,148	1,060	0	0	0	0	0	0
Utah	1,029	1,292	-20.0%	964	1,222	NM	NM	0	0	46	43
Wyoming	1,945	2,229	-13.0%	1,900	2,171	NM	40	0	0	12	18
Pacific Contiguous	188	539	-65.0%	58	165	123	368	0	0	6	6
California	6	10	-42.0%	0	0	0	NM	0	0	6	6
Oregon	58	165	-65.0%	58	165	0	0	0	0	0	0
Washington	124	364	-66.0%	0	0	123	364	0	0	0	1
Pacific Noncontiguous	84	98	-14.0%	14	20	66	72	3	3	NM	NM
Alaska	29	41	-29.0%	14	20	NM	17	3	3	0	0
Hawaii	55	57	-2.6%	0	0	53	54	0	0	NM	NM
U.S. Total	63,384	69,166	-8.4%	46,646	51,328	16,414	17,451	10	14	313	373

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

Table 2.8.B. Consumption of Coal for Electricity Generation by State, by Sector, Year-to-Date through June 2016 and June 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	621	1,371	-55.0%	72	357	545	1,005	0	0	4	9
Connecticut	38	339	-89.0%	0	0	38	339	0	0	0	0
Maine	8	15	-47.0%	0	0	6	8	0	0	2	6
Massachusetts	503	661	-24.0%	0	0	501	658	0	0	2	2
New Hampshire	72	357	-80.0%	72	357	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	12,943	18,027	-28.0%	0	0	12,832	17,902	NM	2	111	123
New Jersey	263	485	-46.0%	0	0	263	485	0	0	0	0
New York	337	698	-52.0%	0	0	301	664	0	0	35	34
Pennsylvania	12,343	16,844	-27.0%	0	0	12,268	16,753	NM	2	75	89
East North Central	65,922	83,684	-21.0%	42,235	52,434	23,259	30,761	17	23	411	466
Illinois	16,373	22,708	-28.0%	2,227	2,755	13,862	19,652	7	8	277	293
Indiana	16,828	19,798	-15.0%	15,773	18,454	1,047	1,336	6	6	2	2
Michigan	11,124	14,415	-23.0%	10,968	14,244	120	119	4	9	33	42
Ohio	13,172	16,343	-19.0%	4,913	6,659	8,231	9,654	NM	1	28	30
Wisconsin	8,424	10,420	-19.0%	8,353	10,321	0	0	NM	NM	71	99
West North Central	53,028	62,980	-16.0%	52,364	62,213	6	8	23	29	635	730
Iowa	6,337	9,483	-33.0%	5,978	9,081	0	0	15	16	343	386
Kansas	6,356	8,169	-22.0%	6,356	8,169	0	0	0	0	0	0
Minnesota	6,462	7,638	-15.0%	6,312	7,459	0	0	2	2	149	177
Missouri	17,339	18,996	-8.7%	17,317	18,968	6	8	6	11	9	9
Nebraska	5,879	7,078	-17.0%	5,773	6,952	0	0	0	0	106	126
North Dakota	9,937	11,281	-12.0%	9,909	11,249	0	0	0	0	28	32
South Dakota	718	335	114.0%	718	335	0	0	0	0	0	0
South Atlantic	46,863	55,571	-16.0%	41,230	48,648	5,450	6,655	10	16	173	252
Delaware	106	193	-45.0%	0	0	106	193	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	7,368	9,408	-22.0%	7,239	9,199	105	185	0	0	24	25
Georgia	8,624	10,457	-18.0%	8,598	10,429	0	0	0	0	26	28
Maryland	2,534	3,592	-29.0%	0	0	2,523	3,571	0	NM	10	17
North Carolina	6,126	8,479	-28.0%	5,980	8,317	117	132	7	9	23	20
South Carolina	4,230	4,950	-15.0%	4,202	4,920	0	0	0	0	28	31
Virginia	3,754	3,738	0.4%	3,608	3,436	102	261	NM	NM	39	38
West Virginia	14,121	14,753	-4.3%	11,602	12,347	2,497	2,313	0	0	23	93
East South Central	31,451	38,720	-19.0%	29,933	36,991	1,396	1,601	0	0	123	128
Alabama	7,494	10,028	-25.0%	7,467	10,001	0	0	0	0	27	27
Kentucky	15,193	18,342	-17.0%	15,193	18,342	0	0	0	0	0	0
Mississippi	1,963	2,579	-24.0%	567	977	1,396	1,601	0	0	0	0
Tennessee	6,801	7,771	-12.0%	6,705	7,670	0	0	0	0	96	101
West South Central	48,308	60,104	-20.0%	23,741	29,881	24,492	30,149	0	0	75	74
Arkansas	5,259	6,337	-17.0%	4,185	5,208	1,067	1,122	0	0	7	7
Louisiana	3,822	5,430	-30.0%	2,749	2,931	1,073	2,499	0	0	0	0
Oklahoma	4,532	7,818	-42.0%	3,978	7,313	486	438	0	0	69	67
Texas	34,694	40,519	-14.0%	12,828	14,429	21,866	26,090	0	0	0	0
Mountain	39,946	49,500	-19.0%	35,396	44,021	4,369	5,278	0	0	181	201
Arizona	7,136	9,497	-25.0%	7,136	9,497	0	0	0	0	0	0
Colorado	7,614	8,758	-13.0%	7,604	8,749	NM	NM	0	0	NM	NM
Idaho	7	8	-16.0%	0	0	0	0	0	0	7	8
Montana	3,946	4,836	-18.0%	NM	134	3,833	4,699	0	0	NM	3
Nevada	434	565	-23.0%	208	353	225	212	0	0	0	0
New Mexico	4,585	5,644	-19.0%	4,585	5,644	0	0	0	0	0	0
Utah	5,241	7,304	-28.0%	5,046	7,092	NM	128	0	0	84	83
Wyoming	10,983	12,888	-15.0%	10,706	12,552	191	231	0	0	86	105
Pacific Contiguous	662	1,090	-39.0%	243	179	378	871	0	0	41	39
California	37	45	-18.0%	0	0	0	NM	0	0	37	35
Oregon	243	179	36.0%	243	179	0	0	0	0	0	0
Washington	382	865	-56.0%	0	0	378	861	0	0	4	5
Pacific Noncontiguous	591	551	7.3%	130	117	433	405	20	20	NM	NM
Alaska	235	238	-1.4%	130	117	84	101	20	20	0	0
Hawaii	356	313	14.0%	0	0	348	304	0	0	NM	NM
U.S. Total	300,336	371,598	-19.0%	225,344	274,841	73,160	94,634	71	91	1,762	2,032

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

Table 2.9.A. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, June 2016 and June 2015 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	48	NM	NM	8	NM	37	NM	NM	NM	NM	NM
Connecticut	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Maine	14	3	305.0%	NM	NM	13	2	NM	NM	NM	NM
Massachusetts	NM	NM	NM	2	NM	NM	NM	NM	NM	NM	NM
New Hampshire	NM	NM	NM	4	NM	NM	NM	NM	NM	NM	NM
Rhode Island	NM	NM	NM	1	NM	0	0	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	77	91	-15.0%	NM	NM	54	58	NM	NM	NM	8
New Jersey	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
New York	NM	NM	NM	NM	NM	NM	NM	NM	6	NM	NM
Pennsylvania	42	46	-8.1%	NM	NM	39	43	NM	NM	NM	NM
East North Central	89	111	-20.0%	52	79	33	28	NM	NM	3	3
Illinois	8	10	-12.0%	NM	NM	6	6	NM	NM	NM	NM
Indiana	16	38	-59.0%	15	36	NM	NM	NM	NM	1	2
Michigan	23	19	25.0%	22	17	0	0	NM	NM	2	1
Ohio	36	43	-15.0%	9	21	26	22	NM	NM	1	NM
Wisconsin	5	NM	NM	NM	NM	0	NM	NM	NM	NM	NM
West North Central	58	44	31.0%	52	40	NM	NM	NM	NM	NM	NM
Iowa	8	8	2.2%	8	8	NM	NM	NM	NM	NM	NM
Kansas	7	4	62.0%	7	4	0	0	0	0	0	0
Minnesota	10	NM	NM	5	3	NM	NM	NM	NM	NM	NM
Missouri	16	13	31.0%	16	13	NM	NM	NM	NM	0	0
Nebraska	7	NM	NM	7	NM	0	0	0	0	0	0
North Dakota	9	6	55.0%	9	6	0	0	NM	NM	NM	NM
South Dakota	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
South Atlantic	329	384	-14.0%	284	311	37	53	NM	NM	8	12
Delaware	NM	7	NM	NM	NM	NM	6	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	138	160	-14.0%	136	158	NM	NM	0	0	2	1
Georgia	12	16	-25.0%	10	9	NM	NM	NM	NM	2	7
Maryland	23	44	-47.0%	NM	NM	21	35	NM	NM	NM	NM
North Carolina	38	35	6.5%	36	NM	NM	NM	NM	NM	NM	NM
South Carolina	22	17	27.0%	19	15	NM	NM	NM	NM	3	2
Virginia	78	72	9.3%	66	61	12	10	NM	NM	NM	1
West Virginia	17	32	-49.0%	16	32	0	0	0	0	0	0
East South Central	50	61	-18.0%	47	58	NM	NM	NM	NM	NM	3
Alabama	7	10	-24.0%	5	7	NM	NM	0	0	NM	3
Kentucky	15	17	-13.0%	15	17	0	0	0	0	0	0
Mississippi	3	2	11.0%	3	2	0	0	0	0	0	0
Tennessee	25	32	-21.0%	25	32	NM	NM	NM	NM	NM	NM
West South Central	33	40	-18.0%	23	29	9	10	NM	NM	NM	1
Arkansas	13	5	162.0%	9	4	4	0	0	0	0	1
Louisiana	3	12	-74.0%	3	11	0	1	0	0	0	0
Oklahoma	6	3	113.0%	6	3	0	0	NM	NM	NM	NM
Texas	11	20	-46.0%	5	11	5	9	NM	NM	NM	NM
Mountain	38	39	-2.4%	32	33	6	5	NM	NM	1	NM
Arizona	6	8	-26.0%	6	8	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	6	NM	NM	NM	5	5	0	0	0	0
Nevada	6	5	6.3%	5	5	1	1	0	0	0	0
New Mexico	NM	11	NM	NM	11	0	0	0	0	NM	NM
Utah	4	2	117.0%	4	2	NM	NM	0	0	NM	NM
Wyoming	10	5	116.0%	10	4	0	0	0	0	1	NM
Pacific Contiguous	30	41	-28.0%	7	10	7	17	NM	NM	15	14
California	20	32	-37.0%	5	6	NM	14	NM	NM	14	12
Oregon	2	4	-55.0%	2	4	0	0	NM	NM	0	0
Washington	8	5	58.0%	NM	NM	6	3	NM	NM	1	1
Pacific Noncontiguous	853	937	-8.9%	744	826	96	96	2	NM	NM	14
Alaska	95	100	-5.2%	88	92	0	0	NM	NM	7	8
Hawaii	758	837	-9.4%	656	733	96	96	1	1	NM	7
U.S. Total	1,605	1,773	-9.5%	1,268	1,409	281	286	9	20	46	57

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

Table 2.9.B. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, Year-to-Date through June 2016 and June 2015 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	438	3,047	-86.0%	55	295	355	2,628	22	79	7	45
Connecticut	71	625	-89.0%	5	NM	62	607	NM	NM	NM	NM
Maine	163	810	-80.0%	NM	NM	157	763	NM	NM	5	42
Massachusetts	159	1,205	-87.0%	22	84	126	1,080	NM	39	NM	NM
New Hampshire	22	266	-92.0%	17	190	NM	67	3	9	NM	NM
Rhode Island	20	127	-84.0%	9	10	9	110	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	1,004	4,037	-75.0%	310	1,277	644	2,649	17	45	33	66
New Jersey	92	440	-79.0%	NM	NM	90	437	NM	NM	NM	NM
New York	622	2,733	-77.0%	309	1,274	282	1,369	13	42	18	49
Pennsylvania	290	864	-66.0%	1	NM	272	844	NM	NM	14	NM
East North Central	561	610	-8.0%	374	439	169	149	4	NM	14	19
Illinois	79	54	47.0%	20	20	58	33	1	NM	NM	NM
Indiana	116	178	-35.0%	108	166	NM	NM	NM	NM	8	12
Michigan	133	118	12.0%	129	115	0	0	1	NM	3	3
Ohio	195	214	-9.0%	83	96	109	114	NM	NM	2	3
Wisconsin	38	46	-16.0%	NM	42	3	2	1	1	1	1
West North Central	289	371	-22.0%	268	338	NM	NM	8	8	1	1
Iowa	62	47	33.0%	61	45	1	NM	NM	NM	NM	NM
Kansas	38	69	-45.0%	38	69	0	0	0	0	0	0
Minnesota	41	64	-37.0%	NM	33	NM	NM	8	7	1	1
Missouri	81	101	-20.0%	81	101	NM	NM	NM	NM	0	0
Nebraska	31	27	14.0%	31	27	0	0	0	0	0	0
North Dakota	32	29	11.0%	32	29	0	0	NM	NM	NM	NM
South Dakota	NM	34	NM	NM	34	NM	NM	NM	NM	0	0
South Atlantic	2,011	4,086	-51.0%	1,417	2,850	519	932	NM	158	73	145
Delaware	72	221	-67.0%	NM	NM	70	216	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	367	637	-42.0%	354	619	NM	NM	0	0	10	11
Georgia	163	300	-46.0%	88	114	34	83	1	NM	40	102
Maryland	222	468	-53.0%	10	12	211	299	NM	155	1	NM
North Carolina	320	651	-51.0%	262	602	54	40	NM	NM	4	9
South Carolina	150	322	-54.0%	130	288	NM	15	NM	NM	16	18
Virginia	613	1,354	-55.0%	467	1,097	142	251	NM	NM	2	4
West Virginia	104	133	-22.0%	104	113	1	21	0	0	0	0
East South Central	298	409	-27.0%	272	359	12	28	NM	NM	14	21
Alabama	56	110	-49.0%	33	64	11	27	0	0	13	19
Kentucky	108	131	-17.0%	108	131	0	0	0	0	0	0
Mississippi	18	22	-20.0%	17	21	0	0	0	0	1	1
Tennessee	116	146	-20.0%	114	143	1	NM	NM	NM	NM	NM
West South Central	166	288	-42.0%	109	170	53	111	NM	NM	3	7
Arkansas	45	58	-22.0%	33	43	10	11	0	0	2	5
Louisiana	19	96	-80.0%	16	76	3	19	0	0	0	0
Oklahoma	15	NM	NM	15	7	0	0	NM	NM	NM	NM
Texas	86	127	-32.0%	45	44	39	81	NM	NM	NM	NM
Mountain	247	241	2.7%	220	216	24	21	NM	NM	3	3
Arizona	58	53	9.1%	58	53	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	27	NM	NM	NM	21	18	0	0	0	0
Nevada	12	16	-26.0%	10	13	2	NM	0	0	0	0
New Mexico	60	79	-24.0%	59	79	0	0	0	0	NM	NM
Utah	26	16	64.0%	25	15	NM	NM	0	0	NM	NM
Wyoming	52	36	45.0%	49	33	0	0	0	0	3	3
Pacific Contiguous	97	125	-22.0%	34	37	NM	51	NM	NM	42	36
California	78	104	-25.0%	29	30	NM	44	NM	NM	35	29
Oregon	NM	NM	NM	2	4	0	0	NM	NM	0	0
Washington	17	17	2.3%	NM	NM	7	7	NM	NM	7	7
Pacific Noncontiguous	5,330	5,761	-7.5%	4,680	4,975	548	661	7	7	NM	118
Alaska	652	687	-5.1%	607	636	0	0	NM	NM	43	49
Hawaii	4,678	5,074	-7.8%	4,073	4,339	548	661	5	5	NM	69
U.S. Total	10,440	18,972	-45.0%	7,739	10,957	2,355	7,255	62	300	285	460

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

Table 2.10.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, June 2016 and June 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	NM	NM	0	0	0	0	0	0	NM	NM
New Jersey	NM	0	--	0	0	0	0	0	0	NM	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	79	138	-43.0%	34	95	40	40	0	0	4	4
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	56	-100.0%	0	56	0	0	0	0	0	0
Michigan	35	39	-11.0%	31	37	0	0	0	0	NM	NM
Ohio	40	40	0.7%	0	0	40	40	0	0	NM	NM
Wisconsin	4	3	13.0%	4	2	0	0	0	0	0	2
West North Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Iowa	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	75	48	56.0%	72	46	0	0	0	0	3	2
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	72	46	57.0%	72	46	0	0	0	0	0	0
Georgia	3	2	37.0%	0	0	0	0	0	0	3	2
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	43	32	33.0%	43	32	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	43	32	33.0%	43	32	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	169	67	152.0%	158	60	0	0	0	0	11	NM
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	166	63	165.0%	158	60	0	0	0	0	8	NM
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	NM	NM	0	0	0	0	0	0	NM	NM
Mountain	13	15	-17.0%	0	0	13	15	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	13	15	-17.0%	0	0	13	15	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	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	387	305	27.0%	308	233	52	55	0	0	27	17

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Table 2.10.B. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, Year-to-Date through June 2016 and June 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 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	28	23	23.0%	0	0	0	0	0	0	28	23
New Jersey	NM	NM	NM	0	0	0	0	0	0	NM	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	22	22	-0.1%	0	0	0	0	0	0	22	22
East North Central	522	642	-19.0%	303	355	192	255	0	0	28	32
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	159	159	-0.2%	159	159	0	0	0	0	0	0
Michigan	154	208	-26.0%	131	182	1	7	0	0	21	19
Ohio	191	249	-23.0%	0	0	190	249	0	0	1	0
Wisconsin	19	27	-30.0%	12	14	0	0	0	0	6	13
West North Central	19	15	28.0%	0	0	0	0	1	1	18	13
Iowa	19	15	28.0%	0	0	0	0	1	1	18	13
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	426	268	59.0%	413	253	0	0	0	0	14	15
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	413	253	63.0%	413	253	0	0	0	0	0	0
Georgia	14	15	-11.0%	0	0	0	0	0	0	14	15
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	217	214	1.7%	217	214	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	217	214	1.7%	217	214	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	917	792	16.0%	854	724	0	0	0	0	64	69
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	893	748	19.0%	854	724	0	0	0	0	40	25
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	24	44	-47.0%	0	0	0	0	0	0	24	44
Mountain	76	90	-16.0%	0	0	76	90	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	76	90	-16.0%	0	0	76	90	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	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	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	2,205	2,045	7.8%	1,786	1,545	268	347	1	1	151	153

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

Table 2.11.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, June 2016 and June 2015 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	37,788	36,061	4.8%	105	411	36,007	34,057	827	795	849	799
Connecticut	10,010	10,133	-1.2%	4	0	9,227	9,354	347	349	432	430
Maine	2,093	874	139.0%	0	0	1,768	573	NM	NM	298	276
Massachusetts	17,986	15,235	18.0%	74	410	17,419	14,377	386	367	107	81
New Hampshire	2,880	3,645	-21.0%	27	0	2,827	3,617	NM	NM	NM	NM
Rhode Island	4,819	6,172	-22.0%	0	0	4,767	6,135	NM	NM	0	0
Vermont	0	1	-100.0%	0	1	0	0	0	0	0	0
Middle Atlantic	122,555	102,159	20.0%	12,951	11,471	107,654	88,829	899	847	1,050	1,013
New Jersey	30,291	24,095	26.0%	NM	NM	29,740	23,561	NM	136	310	319
New York	44,884	39,858	13.0%	12,843	11,380	31,233	27,760	632	590	176	128
Pennsylvania	47,379	38,206	24.0%	NM	NM	46,680	37,508	NM	NM	564	566
East North Central	78,097	57,546	36.0%	36,764	24,586	38,782	30,136	938	1,284	1,612	1,540
Illinois	13,444	7,683	75.0%	1,553	511	11,325	6,203	304	721	261	248
Indiana	14,008	9,066	55.0%	11,241	7,689	2,327	978	105	63	335	336
Michigan	21,908	14,472	51.0%	8,509	3,768	12,192	9,512	NM	335	NM	856
Ohio	17,568	18,182	-3.4%	5,150	4,993	12,274	13,071	NM	NM	37	NM
Wisconsin	11,168	8,143	37.0%	10,311	7,625	664	373	NM	78	NM	67
West North Central	22,346	14,831	51.0%	18,606	12,864	2,973	1,443	NM	338	NM	186
Iowa	2,435	1,854	31.0%	2,280	1,746	NM	NM	NM	NM	NM	NM
Kansas	3,467	2,051	69.0%	3,288	1,970	0	0	0	0	NM	82
Minnesota	6,395	4,781	34.0%	4,943	4,117	1,195	450	NM	183	NM	31
Missouri	7,188	4,350	65.0%	5,270	3,249	1,777	992	136	106	NM	NM
Nebraska	1,470	686	114.0%	1,442	686	0	0	NM	NM	NM	0
North Dakota	NM	339	NM	536	NM	0	0	0	0	NM	NM
South Dakota	847	769	10.0%	847	769	0	0	0	0	0	0
South Atlantic	232,618	219,345	6.1%	183,174	173,677	46,573	42,713	593	546	2,277	2,409
Delaware	6,887	5,540	24.0%	NM	NM	5,889	4,466	0	0	943	1,032
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	115,345	106,450	8.4%	101,659	99,214	12,866	6,480	NM	NM	787	739
Georgia	39,775	33,951	17.0%	30,349	20,874	9,268	12,659	0	0	158	418
Maryland	4,116	4,630	-11.0%	0	0	3,603	4,158	466	448	47	24
North Carolina	23,941	26,458	-9.5%	20,206	23,288	3,625	3,118	11	6	99	46
South Carolina	12,072	14,412	-16.0%	10,504	12,303	1,520	2,090	NM	NM	35	NM
Virginia	29,040	26,225	11.0%	20,316	17,764	8,587	8,321	NM	NM	132	135
West Virginia	1,377	1,613	-15.0%	85	191	1,216	1,422	0	0	76	NM
East South Central	92,553	80,798	15.0%	58,697	49,337	32,674	30,171	NM	NM	1,067	1,181
Alabama	39,750	37,430	6.2%	12,483	10,995	26,687	25,665	0	0	581	770
Kentucky	6,920	3,813	81.0%	6,179	2,831	588	825	0	0	152	157
Mississippi	36,371	32,382	12.0%	30,797	28,523	5,391	3,674	NM	NM	174	176
Tennessee	9,512	7,173	33.0%	9,238	6,987	NM	NM	NM	NM	161	78
West South Central	262,706	238,947	9.9%	100,199	83,119	121,266	116,995	777	684	40,464	38,149
Arkansas	16,791	9,498	77.0%	7,481	3,341	9,167	6,010	NM	NM	141	146
Louisiana	50,171	50,528	-0.7%	28,690	30,104	4,403	3,289	NM	NM	16,925	16,981
Oklahoma	31,623	22,191	43.0%	22,784	13,774	8,755	8,352	NM	NM	NM	65
Texas	164,121	156,729	4.7%	41,245	35,901	98,941	99,344	601	526	23,334	20,957
Mountain	79,736	76,811	3.8%	59,452	53,284	19,095	22,283	342	346	847	898
Arizona	31,254	30,649	2.0%	17,434	15,573	13,706	14,962	113	114	0	0
Colorado	10,167	7,957	28.0%	8,248	6,134	1,900	1,802	0	0	NM	NM
Idaho	1,995	3,464	-42.0%	1,926	2,345	NM	1,089	0	0	NM	31
Montana	798	705	13.0%	729	648	NM	NM	0	0	0	0
Nevada	20,988	21,085	-0.5%	19,613	19,712	1,161	1,141	NM	56	159	176
New Mexico	7,712	6,717	15.0%	5,642	4,036	1,946	2,548	97	99	NM	NM
Utah	6,449	5,864	10.0%	5,760	4,778	273	665	77	77	338	344
Wyoming	NM	369	NM	NM	NM	NM	NM	0	0	NM	292
Pacific Contiguous	80,884	97,821	-17.0%	29,869	35,770	44,286	54,958	1,219	1,233	5,510	5,860
California	67,024	78,030	-14.0%	22,074	24,204	38,425	46,892	1,143	1,139	5,382	5,795
Oregon	8,071	10,570	-24.0%	4,001	3,730	3,908	6,711	NM	NM	96	41
Washington	5,790	9,221	-37.0%	3,794	7,836	1,954	1,355	NM	NM	32	24
Pacific Noncontiguous	1,982	2,406	-18.0%	1,895	2,311	0	0	NM	NM	NM	NM
Alaska	1,982	2,406	-18.0%	1,895	2,311	0	0	NM	NM	NM	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,011,265	926,723	9.1%	501,713	446,829	449,310	421,584	6,080	6,182	54,162	52,128

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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 June 2016 and June 2015 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	188,722	173,980	8.5%	822	1,318	178,967	163,594	4,418	4,549	4,514	4,519
Connecticut	63,973	57,930	10.0%	12	8	59,709	53,479	1,907	1,996	2,345	2,447
Maine	11,651	8,863	31.0%	0	0	9,986	7,215	NM	NM	1,518	1,501
Massachusetts	76,927	65,366	18.0%	700	1,264	73,627	61,501	2,012	2,098	588	503
New Hampshire	13,705	20,193	-32.0%	108	31	13,455	20,012	NM	NM	NM	NM
Rhode Island	22,464	21,612	3.9%	0	0	22,190	21,386	274	226	0	0
Vermont	3	16	-84.0%	3	16	0	0	0	0	0	0
Middle Atlantic	584,130	526,689	11.0%	55,359	52,005	517,667	463,821	5,284	5,060	5,819	5,803
New Jersey	145,855	123,360	18.0%	NM	NM	142,958	120,411	787	774	1,670	1,779
New York	213,295	208,941	2.1%	54,855	51,561	153,711	153,036	3,840	3,585	889	760
Pennsylvania	224,979	194,388	16.0%	NM	NM	220,998	190,374	657	701	3,261	3,264
East North Central	426,377	332,626	28.0%	187,616	141,623	221,896	174,263	6,711	7,800	10,154	8,940
Illinois	62,832	38,264	64.0%	5,823	1,550	52,574	30,633	3,015	4,650	1,420	1,431
Indiana	75,290	62,771	20.0%	58,177	48,790	14,615	11,557	545	400	1,953	2,024
Michigan	121,512	79,834	52.0%	37,439	19,524	76,199	53,720	2,081	1,797	5,794	4,794
Ohio	102,900	105,240	-2.2%	27,338	28,274	74,824	76,199	595	539	142	227
Wisconsin	63,843	46,518	37.0%	58,839	43,485	3,685	2,155	475	414	844	465
West North Central	89,194	60,240	48.0%	73,089	51,511	12,180	6,054	2,075	1,650	1,851	1,026
Iowa	11,437	7,893	45.0%	10,634	7,268	NM	NM	NM	278	NM	347
Kansas	8,870	7,068	25.0%	8,115	6,737	0	0	0	0	755	331
Minnesota	35,440	22,456	58.0%	28,181	19,018	5,685	2,177	1,129	1,012	445	248
Missouri	24,103	17,023	42.0%	17,007	12,769	6,493	3,877	576	358	NM	NM
Nebraska	2,854	1,572	82.0%	2,723	1,550	0	0	NM	NM	NM	NM
North Dakota	2,384	1,397	71.0%	2,323	1,337	0	0	0	0	NM	61
South Dakota	4,105	2,830	45.0%	4,105	2,830	0	0	0	0	0	0
South Atlantic	1,160,120	1,069,026	8.5%	932,089	868,828	211,472	182,901	3,188	3,164	13,371	14,134
Delaware	28,300	27,573	2.6%	NM	NM	22,430	21,210	0	0	5,630	6,169
District of Columbia	347	369	-6.0%	0	0	0	0	347	369	0	0
Florida	583,363	550,392	6.0%	526,564	517,110	52,216	28,779	NM	NM	4,440	4,425
Georgia	188,222	166,687	13.0%	136,945	110,399	49,870	54,092	0	0	1,406	2,196
Maryland	20,958	17,289	21.0%	0	0	18,138	14,493	2,577	2,650	243	146
North Carolina	146,418	131,024	12.0%	129,422	116,699	16,457	13,953	34	19	506	354
South Carolina	55,938	56,187	-0.4%	44,941	49,653	10,728	6,423	NM	NM	216	94
Virginia	130,897	114,828	14.0%	93,477	73,909	36,573	40,146	NM	NM	814	743
West Virginia	5,676	4,678	21.0%	500	864	5,060	3,806	0	0	116	NM
East South Central	447,234	415,683	7.6%	284,045	248,917	156,088	159,142	636	632	6,465	6,991
Alabama	196,642	195,145	0.8%	63,116	55,583	129,576	134,980	0	0	3,951	4,582
Kentucky	32,355	22,242	45.0%	29,251	19,047	2,279	2,294	0	0	826	901
Mississippi	178,293	163,509	9.0%	152,945	140,548	24,195	21,833	NM	NM	1,099	1,078
Tennessee	39,944	34,788	15.0%	38,734	33,740	NM	NM	583	583	589	430
West South Central	1,273,078	1,234,148	3.2%	434,322	391,324	601,639	620,522	4,127	3,753	232,990	218,549
Arkansas	58,071	56,461	2.9%	26,474	14,506	30,623	40,833	NM	NM	962	1,111
Louisiana	270,005	245,315	10.0%	139,870	141,950	27,221	9,244	904	912	102,011	93,209
Oklahoma	130,952	116,764	12.0%	92,032	77,768	38,400	38,562	NM	NM	452	433
Texas	814,050	815,608	-0.2%	175,946	157,100	505,396	531,884	3,143	2,829	129,566	123,796
Mountain	348,241	292,077	19.0%	269,238	210,719	71,846	74,573	1,766	1,836	5,392	4,949
Arizona	112,791	87,117	29.0%	74,128	47,867	38,079	38,645	584	605	0	0
Colorado	47,453	36,450	30.0%	39,009	26,805	8,335	9,534	0	0	NM	NM
Idaho	11,169	10,341	8.0%	6,597	6,067	4,169	4,040	0	0	403	234
Montana	4,224	3,199	32.0%	3,883	2,959	NM	NM	0	0	0	0
Nevada	99,133	91,140	8.8%	91,908	83,783	6,064	6,173	276	296	885	889
New Mexico	39,277	34,950	12.0%	25,453	20,150	13,161	14,109	502	523	NM	NM
Utah	31,812	26,867	18.0%	27,851	22,884	NM	1,770	405	412	1,892	1,801
Wyoming	2,383	2,013	18.0%	NM	NM	NM	NM	0	0	1,943	1,747
Pacific Contiguous	381,406	431,863	-12.0%	150,015	167,941	194,075	225,897	6,475	6,573	30,841	31,453
California	306,162	358,314	-15.0%	106,270	125,297	163,827	195,817	5,959	6,085	30,106	31,115
Oregon	42,209	44,099	-4.3%	17,674	16,997	23,616	26,451	NM	454	451	197
Washington	33,035	29,450	12.0%	26,071	25,647	6,631	3,628	NM	34	284	141
Pacific Noncontiguous	12,209	15,323	-20.0%	11,644	14,782	0	0	NM	NM	NM	530
Alaska	12,209	15,323	-20.0%	11,644	14,782	0	0	NM	NM	NM	530
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	4,910,712	4,551,656	7.9%	2,398,238	2,148,968	2,165,830	2,070,767	34,721	35,028	311,923	296,893

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

Table 2.12.A. Consumption of Landfill Gas for Electricity Generation by State, by Sector, June 2016 and June 2015 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	1,149	1,157	-0.7%	0	0	1,069	1,077	NM	NM	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	NM	85	NM	0	0	NM	85	0	0	0	0
Massachusetts	407	412	-1.1%	0	0	407	412	0	0	0	0
New Hampshire	207	180	15.0%	0	0	NM	100	NM	NM	0	0
Rhode Island	354	383	-7.7%	0	0	354	383	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	5,068	5,002	1.3%	0	0	4,903	4,839	NM	NM	NM	127
New Jersey	940	975	-3.7%	0	0	909	947	NM	NM	0	0
New York	1,725	1,744	-1.1%	0	0	1,725	1,744	0	0	0	0
Pennsylvania	2,404	2,283	5.3%	0	0	2,269	2,148	NM	NM	NM	127
East North Central	6,456	6,516	-0.9%	726	744	5,661	5,716	NM	0	NM	NM
Illinois	1,433	1,445	-0.9%	0	0	1,433	1,445	0	0	0	0
Indiana	742	751	-1.1%	713	720	NM	NM	0	0	NM	NM
Michigan	2,061	2,086	-1.2%	0	0	2,061	2,086	0	0	0	0
Ohio	1,052	1,072	-1.9%	0	NM	1,052	1,060	0	0	0	0
Wisconsin	1,169	1,162	0.6%	NM	NM	1,100	1,109	NM	0	NM	NM
West North Central	1,063	1,044	1.8%	317	289	746	756	0	0	0	0
Iowa	258	262	-1.3%	0	0	258	262	0	0	0	0
Kansas	153	155	-1.3%	0	0	153	155	0	0	0	0
Minnesota	362	363	-0.3%	NM	74	286	290	0	0	0	0
Missouri	140	136	3.0%	NM	86	NM	NM	0	0	0	0
Nebraska	150	129	16.0%	150	129	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	4,336	4,500	-3.7%	444	516	3,529	3,603	NM	199	NM	183
Delaware	161	161	-0.3%	0	0	134	135	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	587	687	-15.0%	118	192	469	496	0	0	0	0
Georgia	347	387	-10.0%	0	0	308	311	0	NM	NM	NM
Maryland	250	252	-0.6%	0	0	183	183	NM	NM	0	0
North Carolina	1,080	1,087	-0.6%	0	0	994	1,014	NM	NM	0	0
South Carolina	478	473	1.0%	318	317	NM	NM	0	0	NM	121
Virginia	1,422	1,443	-1.5%	NM	NM	1,395	1,418	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	523	528	-0.9%	213	215	310	313	0	0	0	0
Alabama	NM	97	NM	0	0	NM	97	0	0	0	0
Kentucky	225	227	-0.8%	213	215	NM	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	178	179	-0.9%	0	0	178	179	0	0	0	0
West South Central	1,603	1,611	-0.5%	0	0	1,557	1,573	NM	NM	0	0
Arkansas	165	168	-1.6%	0	0	165	168	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	NM	NM	0	0	NM	NM	0	0	0	0
Texas	1,400	1,406	-0.4%	0	0	1,354	1,368	NM	NM	0	0
Mountain	453	523	-13.0%	NM	83	434	440	0	0	0	0
Arizona	NM	155	NM	0	NM	NM	90	0	0	0	0
Colorado	NM	109	NM	0	0	NM	109	0	0	0	0
Idaho	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	145	147	-1.5%	0	0	145	147	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,140	5,471	-6.1%	664	782	3,173	3,221	1,303	1,469	0	0
California	4,049	4,367	-7.3%	161	271	2,625	2,666	1,263	1,430	0	0
Oregon	597	604	-1.2%	133	134	424	430	NM	NM	0	0
Washington	494	501	-1.4%	371	377	NM	124	0	0	0	0
Pacific Noncontiguous	NM	NM	NM	0	0	0	0	NM	NM	0	0
Alaska	NM	NM	NM	0	0	0	0	NM	NM	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	25,857	26,408	-2.1%	2,384	2,629	21,381	21,537	1,724	1,876	369	366

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

Table 2.12.B. Consumption of Landfill Gas for Electricity Generation by State, by Sector, Year-to-Date through June 2016 and June 2015 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	6,760	6,767	-0.1%	0	0	6,324	6,279	436	488	0	0
Connecticut	282	280	0.4%	0	0	282	280	0	0	0	0
Maine	505	502	0.5%	0	0	505	502	0	0	0	0
Massachusetts	2,439	2,423	0.7%	0	0	2,439	2,423	0	0	0	0
New Hampshire	1,148	1,091	5.3%	0	0	712	602	436	488	0	0
Rhode Island	2,087	2,174	-4.0%	0	0	2,087	2,174	0	0	0	0
Vermont	299	297	0.7%	0	0	299	297	0	0	0	0
Middle Atlantic	31,918	31,296	2.0%	0	0	30,736	30,179	415	346	767	771
New Jersey	5,784	5,875	-1.5%	0	0	5,515	5,633	269	242	0	0
New York	10,333	10,265	0.7%	0	0	10,333	10,265	0	0	0	0
Pennsylvania	15,801	15,156	4.3%	0	0	14,888	14,281	NM	NM	767	771
East North Central	39,055	39,269	-0.5%	4,374	4,416	34,085	34,363	236	126	361	364
Illinois	8,593	9,062	-5.2%	0	0	8,593	9,062	0	0	0	0
Indiana	4,490	4,449	0.9%	4,275	4,248	NM	94	0	0	NM	NM
Michigan	12,371	12,291	0.7%	0	0	12,371	12,291	0	0	0	0
Ohio	6,321	6,350	-0.5%	NM	83	6,305	6,268	0	0	0	0
Wisconsin	7,280	7,117	2.3%	NM	85	6,720	6,648	236	126	240	258
West North Central	6,405	6,227	2.9%	1,943	1,797	4,462	4,430	0	0	0	0
Iowa	1,546	1,535	0.7%	0	0	1,546	1,535	0	0	0	0
Kansas	912	905	0.7%	0	0	912	905	0	0	0	0
Minnesota	2,183	2,173	0.4%	471	474	1,712	1,700	0	0	0	0
Missouri	859	863	-0.4%	567	572	292	290	0	0	0	0
Nebraska	906	751	21.0%	906	751	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	27,205	27,380	-0.6%	2,864	2,961	21,206	21,296	1,577	1,675	1,557	1,448
Delaware	977	979	-0.2%	0	0	802	797	0	0	175	182
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,700	3,936	-6.0%	897	999	2,803	2,937	0	0	0	0
Georgia	2,207	2,449	-9.9%	0	0	1,846	1,834	0	297	361	318
Maryland	1,581	1,574	0.5%	0	0	1,100	1,096	481	477	0	0
North Carolina	6,857	6,669	2.8%	0	0	5,927	5,916	930	753	0	0
South Carolina	3,158	3,079	2.6%	1,920	1,915	217	216	0	0	1,022	948
Virginia	8,661	8,632	0.3%	NM	NM	8,448	8,436	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	3,138	3,119	0.6%	1,279	1,271	1,859	1,847	0	0	0	0
Alabama	572	568	0.7%	0	0	572	568	0	0	0	0
Kentucky	1,352	1,345	0.6%	1,279	1,271	NM	73	0	0	0	0
Mississippi	149	147	0.7%	0	0	149	147	0	0	0	0
Tennessee	1,065	1,058	0.6%	0	0	1,065	1,058	0	0	0	0
West South Central	9,733	9,548	1.9%	0	0	9,331	9,272	402	276	0	0
Arkansas	984	976	0.8%	0	0	984	976	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	228	227	0.5%	0	0	228	227	0	0	0	0
Texas	8,521	8,345	2.1%	0	0	8,119	8,069	402	276	0	0
Mountain	2,781	3,078	-9.7%	186	503	2,594	2,576	0	0	0	0
Arizona	603	915	-34.0%	NM	384	535	531	0	0	0	0
Colorado	644	639	0.7%	0	0	644	639	0	0	0	0
Idaho	349	349	0.2%	NM	119	231	230	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	318	316	0.7%	0	0	318	316	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	866	860	0.8%	0	0	866	860	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	32,775	33,879	-3.3%	4,496	4,412	19,119	19,291	9,161	10,175	0	0
California	26,179	27,346	-4.3%	1,489	1,428	15,844	16,040	8,846	9,878	0	0
Oregon	3,643	3,601	1.2%	795	790	2,533	2,513	315	297	0	0
Washington	2,954	2,932	0.7%	2,212	2,194	742	738	0	0	0	0
Pacific Noncontiguous	756	613	23.0%	0	0	0	0	756	613	0	0
Alaska	756	613	23.0%	0	0	0	0	756	613	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	160,525	161,176	-0.4%	15,143	15,360	129,715	129,533	12,982	13,700	2,685	2,583

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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, June 2016 and June 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	284	288	-1.2%	0	0	272	275	13	13	0	0
Connecticut	103	99	4.1%	0	0	103	99	0	0	0	0
Maine	21	21	1.8%	0	0	8	8	13	13	0	0
Massachusetts	151	159	-5.0%	0	0	151	159	0	0	0	0
New Hampshire	9	9	1.3%	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	431	434	-0.7%	0	0	349	350	82	84	0	0
New Jersey	116	114	1.7%	0	0	86	84	31	30	0	0
New York	152	152	0.1%	0	0	121	121	31	31	0	0
Pennsylvania	162	167	-3.0%	0	0	143	145	20	23	0	0
East North Central	18	20	-9.8%	4	3	0	0	15	17	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	-13.0%	0	0	0	0	1	1	0	0
Michigan	14	16	-13.0%	0	0	0	0	14	16	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	4	3	6.0%	4	3	0	0	0	0	0	0
West North Central	54	57	-5.2%	37	40	16	16	NM	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	54	57	-5.2%	37	40	16	16	NM	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	486	428	13.0%	0	0	454	398	31	30	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	321	268	20.0%	0	0	321	268	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	78	79	-1.0%	0	0	78	79	0	NM	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	87	82	5.5%	0	0	55	52	31	30	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	NM	0	NM	0	0	NM	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	NM	0	NM	0	0	NM	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	63	64	-1.9%	0	0	63	64	0	0	0	0
California	43	44	-3.5%	0	0	43	44	0	0	0	0
Oregon	8	8	1.5%	0	0	8	8	0	0	0	0
Washington	12	12	1.8%	0	0	12	12	0	0	0	0
Pacific Noncontiguous	40	30	30.0%	0	0	0	0	40	30	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	40	30	30.0%	0	0	0	0	40	30	0	0
U.S. Total	1,376	1,322	4.1%	40	44	1,154	1,103	181	175	0	0

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

Table 2.13.B. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, Year-to-Date through June 2016 and June 2015 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	1,759	1,741	1.0%	0	0	1,673	1,636	86	105	0	0
Connecticut	628	605	3.8%	0	0	628	583	0	22	0	0
Maine	132	129	2.9%	0	0	47	45	86	84	0	0
Massachusetts	945	956	-1.2%	0	0	945	956	0	0	0	0
New Hampshire	54	52	3.8%	0	0	54	52	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	2,500	2,441	2.4%	0	0	1,991	1,931	509	510	0	0
New Jersey	650	609	6.8%	0	0	479	437	171	172	0	0
New York	907	907	0.0%	0	0	697	700	210	206	0	0
Pennsylvania	942	925	1.8%	0	0	815	793	127	132	0	0
East North Central	121	117	3.3%	19	19	0	0	102	98	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	4	5	-12.0%	0	0	0	0	4	5	0	0
Michigan	97	93	4.3%	0	0	0	0	97	93	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	19	19	1.5%	19	19	0	0	0	0	0	0
West North Central	312	294	6.3%	207	194	95	91	10	9	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	312	294	6.3%	207	194	95	91	10	9	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,725	2,396	14.0%	266	0	2,275	2,217	184	179	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,857	1,532	21.0%	266	0	1,590	1,532	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	404	387	4.4%	0	0	404	387	NM	NM	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	465	477	-2.5%	0	0	281	298	184	179	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	4	2	94.0%	0	0	0	0	0	0	4	2
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	4	2	94.0%	0	0	0	0	0	0	4	2
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	1	1	-0.7%	0	0	1	1	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1	1	-0.7%	0	0	1	1	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	306	345	-11.0%	0	0	306	345	0	0	0	0
California	189	232	-19.0%	0	0	189	232	0	0	0	0
Oregon	45	43	3.8%	0	0	45	43	0	0	0	0
Washington	72	70	3.6%	0	0	72	70	0	0	0	0
Pacific Noncontiguous	202	183	10.0%	0	0	0	0	202	183	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	202	183	10.0%	0	0	0	0	202	183	0	0
U.S. Total	7,930	7,520	5.4%	493	212	6,340	6,221	1,093	1,084	4	2

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

Table 2.14.A. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, June 2016 and June 2015 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	5,047	4,677	7.9%	928	716	3,639	3,387	NM	NM	477	556
Connecticut	368	208	77.0%	0	0	368	208	0	0	0	0
Maine	2,089	2,046	2.1%	0	0	1,612	1,489	0	1	477	556
Massachusetts	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Hampshire	1,841	1,828	0.7%	455	465	1,386	1,363	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	608	422	44.0%	474	250	NM	NM	NM	NM	0	0
Middle Atlantic	1,217	1,205	1.0%	0	0	670	725	0	0	547	480
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	795	845	-5.9%	0	0	670	725	0	0	125	120
Pennsylvania	422	360	17.0%	0	0	0	0	0	0	422	360
East North Central	2,293	2,635	-13.0%	408	512	1,066	1,206	0	1	819	916
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,505	1,302	16.0%	0	NM	1,010	818	0	1	494	483
Ohio	182	235	-23.0%	0	0	NM	NM	0	0	126	181
Wisconsin	606	1,097	-45.0%	408	512	0	334	0	0	198	252
West North Central	982	982	0.0%	190	175	491	534	61	3	240	271
Iowa	0	NM	NM	0	0	0	0	0	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	935	981	-4.7%	190	175	491	534	13	2	240	271
Missouri	47	0	--	0	0	0	0	47	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	9,269	12,396	-25.0%	2,003	2,096	2,369	3,802	NM	NM	4,879	6,478
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	1,142	2,102	-46.0%	0	0	500	1,394	0	0	642	708
Georgia	2,222	3,844	-42.0%	0	0	620	659	0	0	1,602	3,186
Maryland	85	65	30.0%	0	0	0	0	NM	NM	66	46
North Carolina	1,326	1,522	-13.0%	0	0	767	935	0	0	558	587
South Carolina	2,078	2,112	-1.6%	342	340	346	399	0	0	1,390	1,373
Virginia	2,417	2,751	-12.0%	1,661	1,756	136	416	0	0	620	579
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,352	3,181	5.4%	NM	NM	218	220	0	0	3,122	2,958
Alabama	2,080	1,915	8.6%	NM	NM	218	220	0	0	1,850	1,692
Kentucky	133	151	-12.0%	0	0	0	0	0	0	133	151
Mississippi	713	691	3.2%	0	0	0	0	0	0	713	691
Tennessee	426	424	0.5%	0	0	0	0	0	0	426	424
West South Central	3,211	3,405	-5.7%	10	262	179	0	0	0	3,023	3,143
Arkansas	560	646	-13.0%	0	0	0	0	0	0	560	646
Louisiana	1,728	1,775	-2.6%	0	0	0	0	0	0	1,728	1,775
Oklahoma	101	97	3.9%	0	0	0	0	0	0	101	97
Texas	822	887	-7.4%	10	262	179	0	0	0	633	625
Mountain	868	818	6.0%	0	0	399	405	0	0	469	413
Arizona	271	279	-3.1%	0	0	271	279	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	0	0
Idaho	503	442	14.0%	0	0	71	64	0	0	433	378
Montana	NM	NM	NM	0	0	0	0	0	0	NM	NM
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,403	6,288	-14.0%	395	43	3,473	4,547	0	0	1,536	1,697
California	3,605	4,637	-22.0%	0	0	3,227	4,260	0	0	378	377
Oregon	480	751	-36.0%	0	0	NM	NM	0	0	235	464
Washington	1,318	899	47.0%	395	43	0	0	0	0	923	856
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	31,642	35,586	-11.0%	3,944	3,806	12,505	14,827	81	41	15,111	16,912

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

Table 2.14.B. Consumption of Wood / Wood Waste Biomass for Electricity Generation by State, by Sector, Year-to-Date through June 2016 and June 2015 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	30,288	30,317	-0.1%	4,646	4,422	22,393	21,705	NM	NM	3,196	4,039
Connecticut	2,238	1,261	78.0%	0	0	2,238	1,237	0	NM	0	0
Maine	13,389	14,295	-6.3%	0	0	10,184	10,231	NM	NM	3,196	4,039
Massachusetts	858	996	-14.0%	0	0	858	996	0	0	0	0
New Hampshire	10,610	10,810	-1.8%	2,293	2,468	8,317	8,342	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	3,192	2,956	8.0%	2,352	1,954	796	898	NM	NM	0	0
Middle Atlantic	7,050	6,892	2.3%	0	0	4,016	4,113	0	0	3,034	2,779
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	4,766	4,722	0.9%	0	0	4,012	4,097	0	0	754	625
Pennsylvania	2,284	2,170	5.3%	0	0	NM	NM	0	0	2,280	2,154
East North Central	15,034	16,075	-6.5%	2,767	2,247	6,644	7,716	NM	7	5,623	6,105
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	8,748	8,940	-2.2%	NM	NM	5,316	5,449	0	7	3,431	3,484
Ohio	1,096	1,457	-25.0%	0	0	319	320	0	0	777	1,137
Wisconsin	5,191	5,677	-8.6%	2,767	2,247	1,009	1,946	NM	NM	1,415	1,484
West North Central	5,279	5,598	-5.7%	1,040	1,000	2,890	3,109	171	123	1,179	1,367
Iowa	NM	NM	NM	0	0	0	0	NM	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	5,121	5,481	-6.6%	1,040	1,000	2,890	3,109	13	6	1,179	1,367
Missouri	155	113	38.0%	0	0	0	0	155	113	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	58,120	67,627	-14.0%	10,435	10,092	14,104	19,936	110	109	33,471	37,490
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	6,827	11,894	-43.0%	0	0	2,781	7,732	0	0	4,045	4,162
Georgia	17,719	21,427	-17.0%	0	0	3,493	3,481	0	0	14,226	17,946
Maryland	433	467	-7.4%	0	0	0	0	110	109	323	359
North Carolina	7,486	8,034	-6.8%	0	0	4,513	4,591	0	0	2,973	3,443
South Carolina	12,168	12,202	-0.3%	1,876	1,945	2,084	2,317	0	0	8,208	7,941
Virginia	13,488	13,603	-0.8%	8,559	8,147	1,233	1,815	0	0	3,696	3,640
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	18,912	18,884	0.1%	NM	NM	1,132	1,047	0	0	17,731	17,826
Alabama	11,588	11,644	-0.5%	NM	NM	1,132	1,047	0	0	10,407	10,587
Kentucky	863	931	-7.3%	0	0	0	0	0	0	863	931
Mississippi	4,043	3,871	4.4%	0	1	0	0	0	0	4,043	3,870
Tennessee	2,418	2,439	-0.8%	0	0	0	0	0	0	2,418	2,439
West South Central	18,663	19,555	-4.6%	91	1,096	644	399	0	0	17,929	18,060
Arkansas	3,635	4,102	-11.0%	0	0	0	0	0	0	3,635	4,102
Louisiana	10,075	9,715	3.7%	0	0	0	0	0	0	10,075	9,715
Oklahoma	566	580	-2.4%	0	0	0	0	0	0	566	580
Texas	4,387	5,158	-15.0%	91	1,096	644	399	0	0	3,652	3,663
Mountain	5,001	4,661	7.3%	0	0	2,309	2,266	0	0	2,692	2,395
Arizona	1,598	1,538	3.9%	0	0	1,598	1,538	0	0	0	0
Colorado	NM	362	NM	0	0	NM	362	0	0	0	0
Idaho	2,857	2,552	12.0%	0	0	371	366	0	0	2,486	2,185
Montana	206	209	-1.6%	0	0	0	0	0	0	206	209
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	32,670	37,474	-13.0%	2,153	1,985	21,595	25,527	0	0	8,922	9,962
California	22,316	26,061	-14.0%	0	0	20,116	23,858	0	0	2,200	2,202
Oregon	3,083	4,476	-31.0%	0	0	1,479	1,668	0	0	1,603	2,807
Washington	7,271	6,938	4.8%	2,153	1,985	0	0	0	0	5,118	4,953
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	191,017	207,083	-7.8%	21,180	20,854	75,727	85,817	333	390	93,777	100,023

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

Table 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2006 - June 2016

	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									
2006	140,964	48,216	674	110,277	29,799	456	30,688	18,416	217
2007	151,221	44,433	554	120,504	28,032	253	30,717	16,401	301
2008	161,589	40,804	739	127,463	26,108	468	34,126	14,696	270
2009	189,467	39,210	1,394	154,815	25,811	1,194	34,652	13,399	201
2010	174,917	35,706	1,019	143,744	24,798	850	31,173	10,908	168
2011	172,387	34,847	508	142,103	25,648	404	30,284	9,198	104
2012	185,116	32,224	495	150,942	23,875	414	34,174	8,349	81
2013	147,884	31,673	390	120,792	22,494	303	27,092	9,179	86
2014	151,548	33,505	827	116,684	22,487	686	34,864	11,018	142
2015	197,128	32,223	1,342	155,759	20,978	1,165	41,370	11,244	177
Year 2014, End of Month Stocks									
January	133,705	27,553	298	108,249	20,649	216	25,456	6,904	83
February	119,904	29,158	277	97,363	20,964	202	22,541	8,195	74
March	118,260	29,197	350	96,029	21,341	282	22,231	7,855	67
April	128,925	29,568	515	103,431	21,583	451	25,494	7,985	64
May	136,921	29,376	458	108,064	21,446	374	28,856	7,930	84
June	133,479	29,738	397	103,948	21,568	343	29,531	8,170	54
July	125,870	29,120	381	97,829	20,967	300	28,041	8,152	81
August	121,369	29,346	388	93,552	21,205	289	27,817	8,141	99
Sept	124,546	29,789	389	96,266	21,338	297	28,280	8,451	92
October	136,964	30,883	510	105,094	21,741	394	31,870	9,142	117
November	142,595	32,829	633	110,221	22,103	502	32,374	10,726	131
December	151,548	33,505	827	116,684	22,487	686	34,864	11,018	142
Year 2015, End of Month Stocks									
January	154,749	32,644	892	119,838	22,006	742	34,911	10,638	150
February	149,765	28,241	850	117,007	20,000	723	32,758	8,241	127
March	155,004	29,106	818	122,327	20,722	698	32,677	8,383	120
April	167,681	28,995	912	131,680	20,637	776	36,001	8,358	136
May	173,436	29,385	999	135,932	20,786	856	37,504	8,599	143
June	167,039	29,435	1,031	132,123	20,737	883	34,916	8,698	149
July	158,596	29,064	1,065	125,879	20,442	909	32,716	8,623	156
August	156,545	28,993	1,029	124,825	20,162	891	31,719	8,831	138
Sept	162,684	30,053	1,102	129,942	20,348	973	32,742	9,706	129
October	176,140	30,994	1,149	140,405	20,353	1,024	35,736	10,641	125
November	189,120	31,894	1,292	150,849	20,680	1,160	38,271	11,214	131
December	197,128	32,223	1,342	155,759	20,978	1,165	41,370	11,244	177
Year 2016, End of Month Stocks									
January	189,073	31,755	1,321	149,028	20,673	1,090	40,045	11,082	231
February	188,975	31,298	1,324	148,654	20,510	1,064	40,321	10,788	259
March	194,309	31,070	1,240	152,165	20,475	974	42,144	10,595	266
April	196,163	31,360	1,182	154,589	20,844	902	41,573	10,516	280
May	195,601	31,633	1,072	153,713	21,047	826	41,888	10,586	246
June	185,408	31,447	906	147,373	20,934	690	38,035	10,513	216

Notes: See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.2 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by State, June 2016 and 2015

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	June 2016	June 2015	Percentage Change	June 2016	June 2015	Percentage Change	June 2016	June 2015	Percentage Change
New England	1,756	1,382	27.1%	4,690	3,364	39.4%	0	0	--
Connecticut	W	W	W	1,638	1,212	35.1%	0	0	--
Maine	0	0	--	W	W	W	0	0	--
Massachusetts	W	W	W	1,939	1,237	56.8%	0	0	--
New Hampshire	W	W	W	W	W	W	0	0	--
Rhode Island	W	0	W	W	W	W	0	0	--
Vermont	0	0	--	45	50	-10.5%	0	0	--
Middle Atlantic	W	7,412	W	5,269	4,623	14.0%	W	W	W
New Jersey	784	947	-17.2%	689	678	1.8%	0	0	--
New York	W	529	W	3,281	2,732	20.1%	0	0	--
Pennsylvania	W	5,935	W	1,298	1,214	6.9%	W	W	W
East North Central	41,555	35,903	15.7%	1,050	1,126	-6.8%	200	150	33.3%
Illinois	9,317	8,404	10.9%	72	81	-11.8%	0	0	--
Indiana	11,552	10,664	8.3%	101	115	-12.1%	0	0	--
Michigan	5,982	6,563	-8.8%	308	331	-7.2%	W	W	W
Ohio	10,313	6,039	70.8%	357	363	-1.5%	W	W	W
Wisconsin	4,390	4,233	3.7%	212	235	-9.9%	W	W	W
West North Central	32,058	26,233	22.2%	1,569	1,693	-7.3%	0	0	--
Iowa	8,325	4,679	77.9%	146	164	-11.3%	0	0	--
Kansas	4,642	3,960	17.2%	686	676	1.5%	0	0	--
Minnesota	4,108	4,286	-4.2%	123	134	-7.9%	0	0	--
Missouri	9,402	8,609	9.2%	385	411	-6.5%	0	0	--
Nebraska	W	2,643	W	146	225	-35.1%	0	0	--
North Dakota	1,956	W	W	38	42	-9.5%	0	0	--
South Dakota	W	W	W	45	40	14.3%	0	0	--
South Atlantic	33,778	30,007	12.6%	12,102	11,344	6.7%	W	W	W
Delaware	W	W	W	441	214	105.9%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	5,789	6,218	-6.9%	5,289	5,654	-6.5%	118	113	4.6%
Georgia	5,913	5,334	10.9%	821	874	-6.0%	0	0	--
Maryland	1,548	1,386	11.7%	805	703	14.4%	0	0	--
North Carolina	6,829	6,125	11.5%	1,188	1,101	7.8%	0	0	--
South Carolina	6,043	5,018	20.4%	689	716	-3.7%	0	0	--
Virginia	1,886	1,920	-1.7%	2,731	1,952	39.9%	0	0	--
West Virginia	W	W	W	139	130	7.0%	W	W	W
East South Central	17,098	17,533	-2.5%	1,909	2,026	-5.8%	W	W	W
Alabama	4,508	4,577	-1.5%	341	402	-15.3%	0	0	--
Kentucky	8,447	8,298	1.8%	239	254	-5.8%	W	W	W
Mississippi	1,180	1,340	-11.9%	577	581	-0.7%	0	0	--
Tennessee	2,963	3,318	-10.7%	752	788	-4.6%	0	0	--
West South Central	29,316	26,408	11.0%	1,887	1,949	-3.2%	W	W	W
Arkansas	5,533	3,767	46.9%	W	W	W	0	0	--
Louisiana	3,381	3,420	-1.2%	441	462	-4.5%	W	W	W
Oklahoma	5,890	4,416	33.4%	W	W	W	0	0	--
Texas	14,513	14,805	-2.0%	1,174	1,211	-3.1%	0	0	--
Mountain	21,709	19,753	9.9%	360	415	-13.2%	W	W	W
Arizona	4,120	3,980	3.5%	126	132	-4.1%	0	0	--
Colorado	5,325	5,552	-4.1%	109	129	-14.9%	0	0	--
Idaho	0	0	--	W	W	W	0	0	--
Montana	W	W	W	W	W	W	W	W	W
Nevada	W	1,241	W	W	W	W	0	0	--
New Mexico	W	W	W	32	39	-19.3%	0	0	--
Utah	4,971	3,720	33.6%	45	49	-8.3%	0	0	--
Wyoming	4,107	3,166	29.7%	24	40	-38.9%	0	0	--
Pacific Contiguous	W	W	W	332	338	-1.7%	0	0	--
California	0	0	--	W	W	W	0	0	--
Oregon	W	W	W	W	W	W	0	0	--
Washington	W	W	W	97	102	-5.3%	0	0	--
Pacific Noncontiguous	W	W	W	2,280	2,557	-10.9%	0	0	--
Alaska	W	W	W	35	118	-70.6%	0	0	--
Hawaii	W	W	W	2,245	2,439	-8.0%	0	0	--
U.S. Total	185,408	167,039	11.0%	31,447	29,435	6.8%	906	1,031	-12.2%

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

Table 3.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by Census Divison, June 2016 and 2015

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**June 2016**	**June 2015**	**Percentage Change**	**June 2016**	**June 2015**	**June 2016**	**June 2015**
Coal (Thousand Tons)							
New England	1,756	1,382	27.1%	W	W	W	W
Middle Atlantic	W	7,412	W	0	0	W	7,412
East North Central	41,555	35,903	15.7%	26,212	24,803	15,343	11,100
West North Central	32,058	26,233	22.2%	32,058	26,233	0	0
South Atlantic	33,778	30,007	12.6%	30,918	27,428	2,860	2,580
East South Central	17,098	17,533	-2.5%	17,098	17,533	0	0
West South Central	29,316	26,408	11.0%	18,976	15,926	10,340	10,482
Mountain	21,709	19,753	9.9%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	W	W	W	W
U.S. Total	**185,408**	**167,039**	**11.0%**	**147,373**	**132,123**	**38,035**	**34,916**
Petroleum Liquids (Thousand Barrels)							
New England	4,690	3,364	39.4%	704	677	3,986	2,687
Middle Atlantic	5,269	4,623	14.0%	2,034	1,739	3,235	2,884
East North Central	1,050	1,126	-6.8%	750	816	299	309
West North Central	1,569	1,693	-7.3%	1,547	1,667	22	26
South Atlantic	12,102	11,344	6.7%	9,845	9,430	2,257	1,915
East South Central	1,909	2,026	-5.8%	W	W	W	W
West South Central	1,887	1,949	-3.2%	1,405	1,438	481	511
Mountain	360	415	-13.2%	W	384	W	30
Pacific Contiguous	332	338	-1.7%	229	W	103	W
Pacific Noncontiguous	2,280	2,557	-10.9%	W	W	W	W
U.S. Total	**31,447**	**29,435**	**6.8%**	**20,934**	**20,737**	**10,513**	**8,698**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	W	W	W	0	0	W	W
East North Central	200	150	33.3%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	118	113	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	**906**	**1,031**	**-12.2%**	**W**	**883**	**W**	**149**

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

Table 3.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2006 - June 2016

	Electric Power Sector			
Period	Bituminous Coal	Subbituminous Coal	Lignite Coal	Total
End of Year Stocks				
2006	67,760	68,408	4,797	140,964
2007	63,964	82,692	4,565	151,221
2008	65,818	91,214	4,556	161,589
2009	91,922	92,448	5,097	189,467
2010	81,108	86,915	6,894	174,917
2011	82,056	85,151	5,179	172,387
2012	86,437	93,833	4,846	185,116
2013	73,113	69,720	5,051	147,884
2014	72,771	72,552	6,225	151,548
2015	82,787	109,363	4,979	197,128
Year 2014, End of Month Stocks				
January	63,618	64,709	5,378	133,705
February	56,041	58,418	5,445	119,904
March	55,150	57,657	5,453	118,260
April	60,602	62,266	6,056	128,925
May	63,782	66,827	6,311	136,921
June	62,679	64,378	6,423	133,479
July	60,134	59,514	6,222	125,870
August	60,128	54,787	6,453	121,369
Sept	63,031	55,432	6,082	124,546
October	69,246	61,368	6,350	136,964
November	70,666	66,105	5,824	142,595
December	72,771	72,552	6,225	151,548
Year 2015, End of Month Stocks				
January	70,519	78,678	5,552	154,749
February	64,718	79,751	5,296	149,765
March	65,701	84,359	4,944	155,004
April	71,246	91,239	5,195	167,681
May	74,471	93,858	5,107	173,436
June	73,179	89,141	4,719	167,039
July	68,526	85,284	4,785	158,596
August	68,029	83,995	4,520	156,545
Sept	70,609	87,500	4,575	162,684
October	76,457	95,051	4,633	176,140
November	80,454	103,942	4,724	189,120
December	82,787	109,363	4,979	197,128
Year 2016, End of Month Stocks				
January	78,003	106,385	4,685	189,073
February	77,699	106,696	4,580	188,975
March	81,158	108,304	4,847	194,309
April	83,033	108,010	5,120	196,163
May	84,022	106,356	5,223	195,601
June	80,272	100,029	5,107	185,408

Notes: See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 and 2016 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), 2006 - June 2016

	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												
2006	21,735,101	1,079,943	1.69	34.09	0.97	102.5	406,869	65,002	8.68	54.35	0.73	74.0
2007	21,152,358	1,054,664	1.77	35.48	0.96	98.6	375,260	60,068	9.59	59.93	0.71	62.6
2008	21,280,258	1,069,709	2.07	41.14	0.97	100.5	375,684	61,139	15.52	95.38	0.61	99.6
2009	19,437,966	981,477	2.21	43.74	1.01	102.8	330,043	54,181	10.25	62.47	0.54	104.8
2010	19,289,661	979,918	2.27	44.64	1.16	97.9	275,058	45,472	14.02	84.80	0.51	101.1
2011	18,675,843	956,538	2.39	46.65	1.19	100.0	216,752	36,158	19.94	119.54	0.60	116.1
2012	16,265,578	841,183	2.38	46.09	1.25	99.5	116,937	19,464	21.85	131.28	0.51	75.7
2013	15,906,809	823,222	2.34	45.33	1.29	93.7	123,964	20,413	20.56	124.90	0.46	76.5
2014	16,594,722	854,560	2.37	45.96	1.32	98.0	172,421	28,514	19.87	120.26	0.46	82.3
2015	14,877,850	769,866	2.22	42.99	1.30	101.5	148,763	24,512	11.47	69.74	0.51	75.1
Year 2014												
January	1,319,894	69,313	2.29	43.69	1.25	81.1	27,209	4,554	21.85	130.73	0.43	42.0
February	1,217,895	62,838	2.32	45.04	1.34	80.8	26,164	4,306	21.60	131.42	0.45	124.7
March	1,400,614	71,444	2.36	46.35	1.35	96.8	15,224	2,519	21.94	132.68	0.45	66.7
April	1,339,967	68,102	2.39	46.96	1.33	114.5	8,983	1,487	21.71	131.18	0.42	84.5
May	1,383,924	70,623	2.40	46.93	1.37	107.9	8,655	1,437	21.18	127.58	0.46	77.4
June	1,366,947	70,055	2.38	46.50	1.35	92.5	9,334	1,546	21.41	129.29	0.45	90.4
July	1,431,182	73,973	2.38	45.96	1.27	89.2	8,455	1,399	21.29	128.62	0.50	74.0
August	1,488,018	76,671	2.37	45.95	1.32	92.9	9,182	1,509	20.62	125.46	0.52	77.3
Sept	1,403,234	72,158	2.37	46.16	1.33	102.4	10,222	1,686	19.67	119.51	0.51	92.8
October	1,416,761	72,959	2.31	44.84	1.29	116.8	12,851	2,134	18.49	111.46	0.48	121.4
November	1,372,572	71,000	2.30	44.54	1.29	107.4	17,787	2,959	16.53	99.41	0.43	155.7
December	1,453,713	75,424	2.51	48.34	1.29	108.7	18,356	2,977	13.87	85.54	0.49	155.0
Year 2015												
January	1,398,063	72,404	2.29	44.17	1.29	99.2	13,202	2,182	12.74	77.12	0.57	59.2
February	1,157,768	60,083	2.26	43.55	1.30	87.7	20,151	3,312	12.59	76.71	0.51	35.7
March	1,218,245	62,520	2.26	44.07	1.29	104.5	15,756	2,602	W	W	0.70	125.7
April	1,164,607	59,958	2.23	43.41	1.33	120.1	9,123	1,515	13.17	79.48	0.43	86.2
May	1,209,862	61,852	2.26	44.27	1.35	105.5	11,087	1,828	12.56	76.29	0.45	93.5
June	1,183,203	60,901	2.25	43.80	1.37	86.3	9,793	1,618	13.56	82.09	0.49	81.4
July	1,289,251	67,423	2.21	42.32	1.25	86.1	8,752	1,446	12.57	76.19	0.48	64.0
August	1,375,298	71,012	2.23	43.22	1.30	94.0	9,220	1,542	12.06	72.84	0.47	74.8
Sept	1,341,110	69,499	2.22	42.77	1.30	104.7	14,419	2,366	9.70	59.07	0.49	120.8
October	1,266,451	65,867	2.14	41.24	1.26	119.2	13,158	2,152	9.13	55.82	0.44	121.3
November	1,166,128	60,780	2.15	41.32	1.25	119.4	14,087	2,296	8.94	54.93	0.53	115.6
December	1,107,863	57,567	2.16	41.55	1.29	111.3	10,015	1,653	8.82	53.49	0.42	89.2
Year 2016												
January	1,019,963	53,356	2.12	40.55	1.33	83.8	8,932	1,499	7.92	47.24	0.46	57.2
February	965,792	49,873	2.11	40.88	1.40	95.8	7,927	1,307	6.98	42.32	0.46	55.7
March	884,181	44,893	2.18	42.88	1.46	108.7	6,868	1,133	6.92	41.94	0.44	72.2
April	794,724	40,229	2.16	42.64	1.46	100.1	8,524	1,403	8.37	50.85	0.41	92.1
May	859,327	43,883	2.16	42.39	1.45	94.7	9,129	1,520	9.79	58.87	0.44	83.2
June	1,008,277	52,327	2.10	40.46	1.35	81.1	7,503	1,245	10.38	62.57	0.49	68.6
Year to Date												
2014	8,029,243	412,375	2.36	45.93	1.33	94.2	95,568	15,848	21.68	130.84	0.44	67.8
2015	7,331,748	377,718	2.26	43.89	1.32	99.3	79,112	13,057	12.79	77.62	0.54	63.0
2016	5,532,264	284,561	2.14	41.54	1.40	92.4	48,884	8,107	8.43	50.86	0.45	69.3
Rolling 12 Months Ending in June												
2015	15,897,228	819,903	2.32	45.02	1.31	100.7	155,965	25,723	W	W	0.51	80.5
2016	13,078,366	676,709	2.17	41.87	1.33	98.6	118,535	19,562	9.34	56.70	0.46	82.9

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

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

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

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

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2006 - June 2016 (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												
2006	203,270	7,193	1.33	37.46	5.15	83.4	6,855,680	6,675,246	6.94	7.13	90.2	3.02
2007	161,091	5,656	1.51	43.02	5.07	77.5	7,396,233	7,200,316	7.11	7.30	90.4	3.23
2008	199,724	7,040	2.11	59.72	4.98	111.5	8,089,467	7,879,046	9.01	9.26	102.5	4.12
2009	197,921	6,954	1.61	45.89	4.63	119.3	8,319,329	8,118,550	4.74	4.86	102.3	3.04
2010	169,508	5,963	2.28	64.85	4.79	98.5	8,867,396	8,673,070	5.09	5.20	102.0	3.26
2011	171,100	5,980	3.03	86.78	5.01	98.2	9,250,652	9,056,164	4.72	4.83	103.8	3.29
2012	119,667	4,180	2.24	64.14	5.55	83.3	9,746,691	9,531,389	3.42	3.50	91.9	2.83
2013	132,474	4,660	2.18	61.95	5.41	73.5	8,721,114	8,503,424	4.33	4.44	89.7	3.09
2014	147,310	5,195	1.98	56.23	5.56	91.2	8,679,286	8,431,423	5.00	5.14	89.6	3.31
2015	135,648	4,779	1.87	52.95	5.26	87.7	10,178,706	9,843,170	3.22	3.33	89.7	2.65
Year 2014												
January	10,073	357	1.82	51.28	5.26	66.1	708,775	691,024	7.02	7.20	88.4	4.07
February	10,261	363	W	W	5.47	79.9	588,885	573,618	7.40	7.59	88.4	W
March	13,196	468	2.02	57.09	5.81	88.8	607,103	591,486	6.00	6.16	89.1	3.52
April	12,986	459	2.13	60.37	5.94	109.7	594,114	578,726	5.07	5.20	89.5	3.23
May	12,640	448	2.19	61.62	5.55	89.0	690,306	671,336	4.93	5.07	89.7	3.25
June	11,659	409	2.07	59.14	5.77	77.7	760,055	738,843	4.84	4.98	89.9	3.27
July	11,616	407	1.90	54.16	5.69	81.6	887,618	861,696	4.43	4.57	90.4	3.17
August	12,764	448	1.97	56.12	5.52	90.8	945,250	916,932	4.12	4.24	90.8	3.06
Sept	11,787	414	1.92	54.55	5.43	85.5	813,131	788,357	4.20	4.33	90.0	3.06
October	11,011	390	1.79	50.65	5.31	123.3	745,276	722,544	4.10	4.23	89.5	2.96
November	12,217	431	1.86	52.74	5.45	109.7	648,562	628,693	4.48	4.62	89.3	3.06
December	17,100	600	2.00	57.09	5.41	111.5	690,212	668,170	4.36	4.50	89.3	3.14
Year 2015												
January	13,724	484	2.03	57.48	5.23	89.7	758,731	735,038	4.10	4.23	88.9	2.93
February	9,660	338	1.79	51.07	5.30	60.9	691,341	669,546	4.68	4.83	89.2	3.20
March	9,506	338	2.03	57.09	5.17	79.5	753,516	729,499	3.54	3.66	89.3	W
April	11,059	392	1.99	56.16	5.01	93.3	716,775	693,083	3.09	3.20	90.2	2.58
May	11,883	419	2.05	58.07	5.24	94.4	786,889	760,832	3.14	3.24	90.2	2.64
June	9,380	330	1.89	53.88	5.57	78.2	934,429	902,609	3.12	3.22	90.3	2.66
July	12,797	451	1.93	54.69	5.08	85.9	1,094,467	1,057,757	3.11	3.22	90.8	2.63
August	11,327	396	1.85	52.86	5.02	79.0	1,073,235	1,038,238	3.11	3.21	90.4	2.62
Sept	13,033	458	1.76	50.19	5.13	93.7	938,770	907,301	3.06	3.16	90.0	2.58
October	10,836	380	W	W	5.09	96.1	832,943	804,172	2.91	3.01	89.1	W
November	11,781	416	1.61	45.64	5.61	112.3	784,419	759,145	2.65	2.73	89.6	2.38
December	10,661	378	1.59	44.81	5.75	103.8	813,191	785,951	2.59	2.68	88.4	2.36
Year 2016												
January	9,639	341	1.38	38.93	5.68	79.5	821,121	793,369	3.01	3.11	89.0	2.52
February	11,272	408	1.30	35.80	5.53	94.7	732,394	707,751	2.70	2.79	88.7	2.37
March	10,312	363	1.41	40.14	5.33	75.9	787,991	762,618	2.23	2.31	89.7	2.22
April	10,307	369	1.35	37.75	5.56	79.0	773,119	748,340	2.42	2.50	89.7	2.31
May	8,554	307	1.32	36.76	5.35	68.7	846,074	819,508	2.40	2.48	89.5	2.31
June	6,894	240	1.41	40.48	4.67	51.9	1,018,786	987,567	2.67	2.76	90.8	2.40
Year to Date												
2014	70,815	2,504	2.06	58.17	5.65	84.3	3,949,238	3,845,032	5.85	6.01	89.2	3.56
2015	65,213	2,300	1.97	55.85	5.25	82.0	4,641,682	4,490,607	3.58	3.70	89.7	2.80
2016	56,979	2,028	1.36	38.16	5.39	74.7	4,979,486	4,819,154	2.58	2.66	89.6	2.36
Rolling 12 Months Ending in June												
2015	141,708	4,991	1.94	55.10	5.36	90.2	9,371,729	9,076,998	3.93	4.06	89.8	W
2016	127,415	4,506	W	W	5.33	84.1	10,516,510	10,171,717	2.76	2.85	89.7	W

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

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

- Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary.
- See Glossary for definitions.
- Starting in January 2013, there may have been a shift in the continuity of Chapter 4 tables due to changes in the sample design of Form EIA-923 and the imputation process.
- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2006 - June 2016

	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												
2006	16,197,852	797,361	1.69	34.26	0.92	105.8	269,033	42,415	8.33	52.80	0.82	79.2
2007	15,561,395	767,377	1.78	36.06	0.92	100.3	216,349	34,026	9.24	58.73	0.77	59.8
2008	15,347,396	764,399	2.06	41.32	0.93	100.5	240,937	38,891	15.83	98.09	0.60	99.7
2009	14,402,019	719,253	2.22	44.47	0.99	103.4	202,598	32,959	10.44	64.18	0.51	103.5
2010	14,226,995	713,094	2.27	45.33	1.14	98.8	189,790	31,099	13.94	85.07	0.48	101.0
2011	13,871,559	699,353	2.40	47.67	1.16	101.5	144,255	23,859	20.30	122.72	0.53	114.5
2012	11,939,543	609,445	2.43	47.51	1.18	99.0	86,030	14,252	22.11	133.44	0.41	81.3
2013	11,595,328	592,772	2.38	46.51	1.23	92.9	78,101	12,814	21.09	128.57	0.43	76.2
2014	12,064,810	614,728	2.39	46.95	1.21	98.3	98,357	16,161	19.90	121.14	0.44	82.0
2015	11,219,729	577,055	2.25	43.74	1.19	105.0	89,904	14,724	11.30	69.02	0.46	77.0
Year 2014												
January	939,850	48,843	2.30	44.18	1.13	79.8	12,001	2,011	21.72	129.64	0.32	44.6
February	870,977	44,490	2.31	45.27	1.23	80.6	12,180	2,005	21.72	131.94	0.49	106.4
March	991,708	50,353	2.37	46.61	1.23	97.5	8,992	1,474	21.53	131.41	0.39	76.6
April	948,645	47,838	2.41	47.72	1.23	116.0	6,691	1,099	21.74	132.35	0.36	85.6
May	1,003,354	50,694	2.42	47.83	1.27	107.4	5,313	885	21.88	131.42	0.34	68.2
June	998,236	50,508	2.40	47.48	1.25	90.8	6,271	1,037	21.65	130.91	0.34	87.9
July	1,059,989	53,961	2.41	47.22	1.19	89.5	5,979	985	21.28	129.22	0.47	75.2
August	1,096,270	55,759	2.40	47.18	1.22	92.5	6,800	1,108	20.61	126.44	0.50	84.5
Sept	1,037,230	52,716	2.41	47.40	1.21	103.8	6,921	1,137	19.90	121.13	0.48	87.7
October	1,047,018	53,419	2.34	45.74	1.20	118.6	6,939	1,148	19.33	117.03	0.48	94.2
November	1,010,559	51,705	2.33	45.51	1.20	110.9	7,512	1,237	17.71	107.56	0.50	100.6
December	1,060,973	54,441	2.60	50.75	1.20	108.8	12,760	2,035	13.22	82.91	0.46	160.4
Year 2015												
January	1,036,958	53,439	2.30	44.72	1.20	103.5	8,826	1,452	11.80	71.71	0.57	69.0
February	864,004	44,588	2.26	43.75	1.20	91.6	8,601	1,406	11.71	71.64	0.47	37.9
March	927,684	47,541	2.26	44.10	1.20	110.3	10,165	1,669	12.11	73.85	0.52	132.3
April	878,588	45,081	2.26	44.01	1.22	122.2	6,578	1,082	13.26	80.56	0.39	86.7
May	923,980	47,039	2.29	44.97	1.23	107.9	7,247	1,180	12.33	75.72	0.46	92.6
June	905,477	46,233	2.27	44.47	1.25	89.9	7,498	1,234	13.66	82.96	0.46	87.5
July	976,543	50,671	2.24	43.10	1.13	88.7	6,277	1,028	12.47	76.13	0.40	66.8
August	1,035,462	53,072	2.26	44.06	1.19	96.7	5,726	946	11.75	71.15	0.42	65.1
Sept	1,005,631	51,566	2.26	44.05	1.19	108.2	7,101	1,158	9.75	59.76	0.38	91.5
October	951,213	49,116	2.19	42.34	1.15	123.3	5,910	970	9.43	57.50	0.44	78.5
November	880,076	45,573	2.20	42.46	1.14	125.0	8,563	1,387	8.80	54.37	0.57	99.8
December	834,115	43,135	2.21	42.69	1.17	112.2	7,413	1,211	8.52	52.13	0.37	98.1
Year 2016												
January	757,172	39,300	2.17	41.78	1.19	85.1	6,397	1,058	7.86	47.57	0.44	61.6
February	727,561	37,332	2.16	42.06	1.24	97.9	5,828	957	6.93	42.18	0.41	66.4
March	691,199	34,824	2.20	43.61	1.36	110.2	5,242	854	6.72	41.26	0.40	79.6
April	616,378	31,090	2.19	43.44	1.32	107.0	6,901	1,126	8.38	51.32	0.37	108.0
May	655,894	33,443	2.17	42.56	1.25	97.9	6,751	1,116	9.12	55.16	0.40	92.4
June	775,117	39,864	2.15	41.78	1.23	85.3	5,502	907	10.51	63.78	0.44	71.4
Year to Date												
2014	5,752,770	292,727	2.37	46.54	1.22	93.8	51,448	8,510	21.70	131.18	0.39	70.4
2015	5,536,689	283,922	2.27	44.35	1.22	103.1	48,915	8,023	12.41	75.67	0.48	72.9
2016	4,223,322	215,853	2.17	42.48	1.26	95.6	36,622	6,018	8.28	50.36	0.41	77.6
Rolling 12 Months Ending in June												
2015	11,848,730	605,924	2.35	45.93	1.21	103.0	95,824	15,674	15.11	92.40	0.48	84.0
2016	9,906,361	508,985	2.20	42.87	1.20	101.8	77,612	12,718	9.18	56.00	0.42	80.1

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

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- See the 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, 2006 - June 2016 (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												
2006	99,471	3,516	1.49	42.21	5.11	97.2	2,222,289	2,163,113	7.36	7.56	87.3	2.45
2007	84,812	2,964	1.73	49.57	5.09	105.6	2,378,104	2,315,637	7.47	7.67	84.6	2.61
2008	80,987	2,843	2.13	60.51	5.36	123.8	2,856,354	2,784,642	9.15	9.39	102.0	3.33
2009	109,126	3,833	1.68	47.84	5.02	138.8	3,033,133	2,962,640	5.50	5.63	101.8	2.87
2010	103,152	3,628	2.38	67.65	5.03	109.1	3,395,962	3,327,919	5.43	5.54	101.1	2.99
2011	99,208	3,445	3.08	88.73	5.17	99.9	3,571,348	3,507,613	5.00	5.09	101.8	3.08
2012	72,782	2,521	2.30	66.40	5.46	119.8	4,083,579	4,003,457	3.74	3.81	97.6	2.86
2013	99,088	3,463	2.11	60.30	5.34	101.6	3,939,408	3,851,241	4.49	4.59	97.0	2.99
2014	123,793	4,349	1.89	53.77	5.56	126.3	3,876,549	3,772,596	5.17	5.31	96.7	3.16
2015	115,651	4,059	1.77	50.44	5.23	129.8	4,662,350	4,510,926	3.52	3.64	95.1	2.66
Year 2014												
January	8,753	309	1.79	50.66	5.22	88.7	322,118	314,783	6.23	6.37	96.8	3.45
February	8,883	312	2.01	57.15	5.47	113.1	261,721	255,665	7.00	7.16	96.1	3.56
March	11,235	396	1.94	54.97	5.85	119.1	269,374	263,288	5.93	6.06	96.8	3.24
April	11,184	394	2.07	58.69	5.98	186.0	270,455	264,009	5.34	5.47	97.6	3.14
May	10,813	383	2.13	60.11	5.57	121.8	324,319	316,054	5.26	5.40	97.7	3.18
June	9,321	325	1.97	56.35	5.85	95.9	346,749	337,837	5.17	5.31	96.9	3.19
July	9,697	339	1.79	51.25	5.70	113.6	390,076	379,146	4.84	4.98	96.4	3.12
August	10,451	365	1.85	52.89	5.51	122.5	424,307	412,297	4.47	4.60	96.6	3.05
Sept	9,844	345	1.81	51.54	5.40	122.6	353,112	342,647	4.63	4.77	96.2	3.05
October	9,240	326	1.65	46.75	5.25	182.8	323,101	313,490	4.55	4.69	96.8	2.93
November	10,079	354	1.70	48.51	5.43	154.6	288,185	279,556	4.75	4.90	96.6	2.94
December	14,294	499	1.90	54.38	5.40	149.0	303,034	293,825	4.61	4.76	96.6	3.13
Year 2015												
January	11,509	404	1.94	55.36	5.21	129.1	339,941	329,825	4.25	4.38	96.1	2.83
February	8,617	301	1.72	49.17	5.31	90.5	319,671	310,056	4.59	4.73	94.8	2.94
March	7,949	283	1.95	54.67	5.16	144.7	341,334	330,809	3.78	3.90	95.4	2.74
April	8,845	313	1.95	55.11	4.92	146.8	329,072	318,796	3.48	3.59	96.8	2.64
May	10,125	357	1.98	56.26	5.21	136.5	359,488	347,975	3.50	3.62	97.0	2.68
June	7,485	262	1.73	49.60	5.62	111.4	439,136	424,467	3.47	3.59	94.9	2.72
July	11,256	395	1.86	52.91	5.04	118.3	502,578	485,114	3.46	3.59	94.7	2.68
August	9,787	342	1.76	50.54	4.92	109.8	487,563	471,677	3.46	3.57	94.4	2.67
Sept	12,216	429	1.72	49.08	5.09	145.7	424,428	410,359	3.40	3.52	94.2	2.62
October	9,542	333	1.77	50.65	5.05	143.8	378,083	364,363	3.25	3.37	94.9	2.51
November	9,986	351	1.46	41.60	5.64	198.2	362,897	351,814	2.98	3.07	96.0	2.46
December	8,335	291	1.34	38.45	5.76	126.4	378,160	365,672	2.95	3.05	93.6	2.47
Year 2016												
January	7,935	278	1.15	32.96	5.67	91.8	389,788	376,962	3.28	3.39	96.7	2.56
February	9,837	356	1.13	31.18	5.53	131.0	352,362	340,293	2.96	3.07	96.3	2.43
March	8,402	294	1.21	34.47	5.28	103.8	379,127	366,817	2.53	2.62	96.4	2.33
April	8,436	300	1.14	31.95	5.58	92.1	368,223	356,568	2.72	2.80	96.6	2.42
May	7,842	281	1.22	34.16	5.35	94.9	397,649	384,725	2.70	2.79	94.3	2.41
June	6,325	220	1.33	38.34	4.59	71.4	496,865	481,119	2.88	2.98	95.8	2.46
Year to Date												
2014	60,188	2,120	1.99	56.50	5.68	116.3	1,794,735	1,751,635	5.78	5.92	97.0	3.29
2015	54,530	1,919	1.89	53.63	5.23	123.8	2,128,641	2,061,928	3.82	3.94	95.8	2.76
2016	48,778	1,729	1.19	33.56	5.37	96.7	2,384,014	2,306,484	2.85	2.94	96.0	2.44
Rolling 12 Months Ending in June												
2015	118,136	4,148	1.84	52.31	5.34	130.8	4,210,455	4,082,889	4.22	4.36	96.1	2.90
2016	109,898	3,869	1.45	41.32	5.29	115.0	4,917,723	4,755,482	3.07	3.17	95.3	2.51

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

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

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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2006 - June 2016

	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												
2006	5,204,402	266,856	1.69	33.04	1.09	97.7	117,524	19,236	9.65	58.98	0.45	104.9
2007	5,275,454	273,216	1.71	33.11	1.06	97.5	125,025	20,486	10.49	64.01	0.45	85.0
2008	5,395,142	281,258	2.03	38.98	1.04	100.4	82,124	13,657	16.30	98.03	0.41	94.4
2009	4,563,080	240,687	2.11	39.94	1.06	101.1	68,030	11,408	10.02	59.76	0.37	102.0
2010	4,555,898	243,585	2.20	41.15	1.21	96.0	49,598	8,420	14.80	87.19	0.35	89.9
2011	4,292,284	233,295	2.28	41.95	1.25	95.9	41,599	7,096	20.30	119.01	0.50	106.9
2012	4,036,436	218,341	2.21	40.92	1.42	104.9	23,922	4,073	22.34	131.28	0.44	79.8
2013	4,032,431	217,572	2.20	40.95	1.48	99.1	43,432	7,205	19.71	118.88	0.45	110.1
2014	4,243,949	226,600	2.25	42.20	1.61	100.1	71,774	11,980	19.90	119.36	0.45	101.0
2015	3,468,061	184,440	2.11	39.65	1.63	97.1	54,504	9,075	11.64	70.10	0.46	86.1
Year 2014												
January	356,260	19,360	2.25	41.46	1.56	86.8	14,823	2,481	22.05	132.09	0.46	43.7
February	324,520	17,309	2.31	43.39	1.62	83.0	13,652	2,247	21.53	131.09	0.39	189.3
March	383,238	19,906	2.32	44.67	1.66	97.8	6,096	1,023	22.59	134.69	0.52	66.2
April	368,214	19,193	2.29	44.00	1.60	114.9	2,150	365	21.88	129.00	0.48	127.7
May	358,005	18,880	2.30	43.62	1.65	113.3	3,198	529	20.19	121.99	0.52	145.8
June	346,608	18,528	2.29	42.89	1.64	100.1	2,867	477	21.11	126.96	0.51	141.6
July	346,695	18,879	2.24	41.19	1.53	90.0	2,327	391	21.59	128.64	0.50	96.7
August	366,331	19,740	2.22	41.23	1.63	96.0	2,265	382	W	W	0.49	79.5
Sept	342,392	18,355	2.21	41.35	1.70	101.3	3,161	526	19.20	115.97	0.50	156.6
October	345,463	18,416	2.18	40.98	1.57	115.9	5,762	961	17.58	105.43	0.44	279.8
November	338,083	18,186	2.19	40.72	1.58	101.8	10,107	1,695	15.62	93.26	0.38	374.5
December	368,141	19,847	2.20	40.90	1.54	112.9	5,366	904	15.41	91.46	0.53	201.5
Year 2015												
January	343,021	18,177	2.21	41.66	1.54	92.8	4,217	703	15.12	90.54	0.49	57.2
February	279,974	14,887	2.24	42.12	1.59	81.6	11,144	1,839	13.15	79.88	0.51	36.9
March	272,637	14,193	2.23	42.80	1.58	94.2	3,984	672	13.53	80.54	0.49	119.8
April	270,997	14,215	2.12	40.48	1.64	122.9	2,298	391	12.86	75.93	0.46	125.4
May	270,576	14,133	2.14	41.00	1.76	104.6	3,782	639	13.02	77.29	0.41	138.6
June	262,292	13,988	2.16	40.52	1.76	79.4	2,101	353	13.29	79.16	0.48	95.5
July	295,075	15,969	2.10	38.81	1.64	81.6	2,125	360	12.81	75.83	0.47	69.2
August	323,784	17,230	2.12	39.81	1.66	90.6	3,367	575	12.56	75.45	0.48	134.0
Sept	319,898	17,245	2.05	38.10	1.66	100.2	6,831	1,129	9.45	57.02	0.47	232.0
October	300,888	16,121	1.98	37.04	1.60	115.3	6,918	1,128	8.69	53.34	0.41	305.3
November	270,113	14,513	1.97	36.65	1.57	112.7	5,354	881	9.09	55.30	0.45	223.5
December	258,807	13,769	1.96	36.87	1.63	117.9	2,381	406	9.60	56.21	0.45	93.9
Year 2016												
January	248,356	13,412	1.94	35.88	1.71	84.5	2,394	419	7.90	45.22	0.42	61.6
February	225,570	11,969	1.92	36.22	1.91	96.6	1,824	305	6.90	41.34	0.47	43.6
March	178,170	9,404	2.04	38.68	1.88	114.3	1,456	251	7.45	43.26	0.47	68.4
April	165,868	8,585	1.99	38.44	2.00	85.9	1,446	248	W	W	0.50	74.3
May	190,787	9,867	2.11	40.71	2.12	90.0	2,293	390	11.84	69.81	0.48	94.2
June	219,346	11,843	1.88	34.90	1.77	71.5	1,811	307	10.06	59.37	0.47	84.8
Year to Date												
2014	2,136,845	113,176	2.29	43.35	1.62	98.1	42,786	7,122	21.74	130.84	0.46	75.8
2015	1,699,496	89,593	2.19	41.45	1.64	93.7	27,526	4,596	13.45	80.75	0.49	58.1
2016	1,228,097	65,081	1.97	37.24	1.89	87.9	11,224	1,919	8.87	51.92	0.47	67.2
Rolling 12 Months Ending in June												
2015	3,806,601	203,017	2.20	41.23	1.61	98.3	56,515	9,454	W	W	0.47	91.1
2016	2,996,663	159,928	2.01	37.66	1.73	95.0	38,201	6,398	W	W	0.45	116.6

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

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

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2006 - June 2016 (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												
2006	85,924	3,031	1.07	30.34	5.13	87.1	3,742,865	3,647,102	6.66	6.84	97.4	3.82
2007	56,580	1,994	1.02	28.95	4.88	69.3	4,097,825	3,990,546	6.92	7.11	97.2	4.06
2008	79,122	2,788	1.47	41.85	4.63	98.8	4,061,830	3,956,155	8.93	9.17	100.5	5.07
2009	49,619	1,732	1.31	37.63	3.87	93.6	4,087,573	3,987,721	4.30	4.41	100.7	3.18
2010	30,079	1,050	1.74	49.80	3.84	72.3	4,212,611	4,119,103	4.94	5.05	100.6	3.57
2011	33,643	1,175	2.54	72.85	4.55	84.6	4,252,040	4,158,617	4.62	4.72	100.8	3.52
2012	23,024	801	0.82	23.98	5.49	92.1	4,810,553	4,696,637	3.17	3.25	93.8	2.74
2013	16,150	575	W	W	5.39	65.6	4,025,263	3,917,898	4.25	4.36	92.8	W
2014	13,781	488	2.48	70.31	5.33	70.9	4,054,540	3,934,672	4.90	5.05	92.7	W
2015	14,550	524	2.45	68.22	5.26	67.0	4,777,264	4,617,157	2.93	3.03	93.7	W
Year 2014												
January	922	33	W	W	5.35	52.4	320,157	311,751	8.58	8.81	92.3	W
February	1,039	38	0.00	0.00	5.27	60.8	267,558	260,190	8.33	8.57	91.3	5.10
March	1,127	41	W	W	5.47	62.5	271,937	264,409	6.38	6.56	91.6	W
April	1,047	37	W	W	5.53	57.9	264,781	257,569	4.83	4.96	92.5	W
May	1,419	50	W	W	5.35	88.8	305,484	296,701	4.51	4.65	91.8	W
June	1,349	47	W	W	5.24	102.9	352,539	342,158	4.45	4.58	91.9	W
July	1,124	39	W	W	5.55	67.8	432,673	419,753	3.98	4.10	93.3	W
August	1,401	49	W	W	5.39	83.2	455,652	441,523	3.71	3.83	93.7	W
Sept	946	33	W	W	5.29	47.3	400,187	387,887	3.72	3.84	93.6	W
October	821	29	W	W	5.26	91.2	363,367	352,206	3.58	3.69	92.8	W
November	1,066	36	W	W	5.29	87.9	298,147	289,008	4.27	4.41	92.9	W
December	1,520	53	W	W	5.10	76.9	322,057	311,517	4.04	4.18	93.1	W
Year 2015												
January	1,427	52	W	W	5.10	77.4	357,604	346,044	4.05	4.18	93.3	W
February	562	20	W	W	4.53	30.2	313,724	303,386	5.17	5.34	93.8	W
March	956	34	W	W	4.81	48.7	350,620	339,122	3.36	3.48	93.5	W
April	1,501	54	W	W	4.95	79.5	329,881	318,305	2.65	2.75	93.9	W
May	1,348	48	W	W	5.17	69.2	366,927	354,389	2.75	2.84	93.3	W
June	1,237	44	W	W	5.22	68.9	433,601	418,650	2.69	2.78	93.9	W
July	1,119	40	W	W	5.30	58.6	526,867	509,889	2.71	2.80	94.2	W
August	1,289	45	W	W	5.62	67.3	519,586	502,592	2.72	2.81	94.0	W
Sept	432	16	W	W	5.44	22.3	452,689	437,288	2.69	2.79	93.8	W
October	1,295	47	W	W	5.38	71.5	399,445	386,113	2.55	2.63	93.3	W
November	1,643	59	W	W	5.35	82.7	358,246	346,015	2.31	2.39	93.3	W
December	1,742	65	W	W	5.70	178.7	368,074	355,362	2.20	2.28	93.4	W
Year 2016												
January	1,304	49	W	W	5.70	184.5	368,054	355,169	2.77	2.87	91.9	W
February	1,313	47	W	W	5.44	97.1	324,321	313,533	2.43	2.51	92.6	W
March	1,337	48	W	W	5.37	65.2	347,458	336,175	1.89	1.95	93.6	W
April	1,203	44	W	W	5.30	88.4	343,594	332,291	2.07	2.14	93.1	W
May	505	18	W	W	5.28	30.6	387,399	375,481	2.04	2.11	94.0	W
June	348	12	W	W	5.32	20.5	459,659	445,962	2.42	2.50	94.0	W
Year to Date												
2014	6,903	247	2.47	69.85	5.36	68.9	1,782,457	1,732,778	6.18	6.35	91.9	W
2015	7,031	251	2.41	67.46	5.02	62.4	2,152,358	2,079,896	3.39	3.51	93.6	W
2016	6,010	218	2.50	68.79	5.43	68.9	2,230,485	2,158,611	2.28	2.35	93.2	W
Rolling 12 Months Ending in June												
2015	13,909	492	W	W	5.16	67.1	4,424,441	4,281,790	3.63	3.75	93.4	W
2016	13,529	491	W	W	5.46	70.5	4,855,391	4,695,872	2.43	2.51	93.5	W

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

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

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2006 - June 2016

	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												
2006	12,207	518	2.63	61.95	2.51	27.5	798	137	13.50	78.70	0.17	15.5
2007	12,419	531	2.67	62.46	2.58	27.6	249	43	14.04	81.93	0.17	6.2
2008	43,997	2,009	2.65	58.12	1.73	99.4	3,800	633	17.84	107.10	0.37	102.0
2009	41,182	1,876	2.90	63.68	1.67	104.3	3,517	583	10.82	65.26	0.45	122.1
2010	37,778	1,747	2.82	61.06	1.77	101.6	2,395	400	15.24	91.25	0.38	106.3
2011	35,892	1,686	2.92	62.24	1.78	101.1	1,959	325	19.67	118.66	0.55	108.0
2012	4,427	192	3.41	78.71	2.75	13.2	247	43	W	W	0.00	11.0
2013	3,507	151	W	W	3.05	11.2	0	0	--	--	--	0.0
2014	4,096	182	W	W	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	W	W	2.55	12.6	0	0	--	--	--	0.0
Year 2014												
January	400	18	W	W	3.06	13.3	0	0	--	--	--	0.0
February	407	18	W	W	2.91	13.7	0	0	--	--	--	0.0
March	526	24	2.98	66.22	2.39	20.1	0	0	--	--	--	0.0
April	640	30	2.70	58.40	1.24	36.2	0	0	--	--	--	0.0
May	475	21	W	W	2.54	29.1	0	0	--	--	--	0.0
June	116	5	W	W	2.88	6.3	0	0	--	--	--	0.0
July	261	11	W	W	2.52	13.2	0	0	--	--	--	0.0
August	159	7	W	W	2.96	9.4	0	0	--	--	--	0.0
Sept	306	13	W	W	2.56	21.1	0	0	--	--	--	0.0
October	313	14	W	W	2.72	23.9	0	0	--	--	--	0.0
November	229	10	W	W	3.00	12.3	0	0	--	--	--	0.0
December	264	12	W	W	2.96	13.0	0	0	--	--	--	0.0
Year 2015												
January	309	14	W	W	2.65	14.5	0	0	--	--	--	0.0
February	479	23	2.14	44.32	1.71	25.3	0	0	--	--	--	0.0
March	177	8	W	W	2.93	8.9	0	0	--	--	--	0.0
April	298	13	W	W	2.72	20.3	0	0	--	--	--	0.0
May	102	5	W	W	2.90	7.3	0	0	--	--	--	0.0
June	213	9	W	W	2.30	14.4	0	0	--	--	--	0.0
July	124	5	W	W	2.93	7.9	0	0	--	--	--	0.0
August	187	8	W	W	2.46	12.2	0	0	--	--	--	0.0
Sept	49	2	W	W	3.01	3.7	0	0	--	--	--	0.0
October	130	6	W	W	3.08	9.3	0	0	--	--	--	0.0
November	182	8	W	W	3.00	11.5	0	0	--	--	--	0.0
December	188	8	W	W	2.86	10.8	0	0	--	--	--	0.0
Year 2016												
January	139	6	W	W	2.87	7.8	0	0	--	--	--	0.0
February	124	5	W	W	2.84	6.7	0	0	--	--	--	0.0
March	163	7	W	W	3.03	9.3	0	0	--	--	--	0.0
April	9	0	W	W	2.98	0.8	0	0	--	--	--	0.0
May	0	0	--	--	--	0.0	0	0	--	--	--	0.0
June	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Year to Date												
2014	2,564	115	3.08	68.99	2.34	18.7	0	0	--	--	--	0.0
2015	1,579	71	2.81	62.09	2.38	15.4	0	0	--	--	--	0.0
2016	434	19	W	W	2.92	5.1	0	0	--	--	--	0.0
Rolling 12 Months Ending in June												
2015	3,110	138	W	W	2.55	15.1	0	0	--	--	--	0.0
2016	1,294	56	W	W	2.88	7.3	0	0	--	--	--	0.0

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

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

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2006 - June 2016 (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												
2006	0	0	--	--	--	0.0	21,369	20,819	8.33	8.55	30.7	6.42
2007	0	0	--	--	--	0.0	23,502	22,955	7.99	8.18	32.8	6.20
2008	370	14	2.14	58.36	5.53	135.3	71,670	69,877	9.01	9.24	105.5	6.94
2009	252	9	1.65	46.54	5.11	102.8	81,134	79,308	5.18	5.30	105.0	4.58
2010	410	15	2.19	60.59	5.67	122.5	92,055	90,130	5.39	5.51	105.1	4.83
2011	268	9	W	W	5.46	147.4	95,287	93,306	5.20	5.31	107.2	W
2012	0	0	--	--	--	0.0	18,315	18,008	5.88	5.98	16.2	W
2013	0	0	--	--	--	0.0	5,497	5,450	W	W	4.6	W
2014	0	0	--	--	--	0.0	5,849	5,795	W	W	4.9	W
2015	0	0	--	--	--	0.0	6,499	6,371	W	W	5.0	W
Year 2014												
January	0	0	--	--	--	0.0	423	418	W	W	3.1	W
February	0	0	--	--	--	0.0	314	310	W	W	3.6	W
March	0	0	--	--	--	0.0	359	355	W	W	4.2	W
April	0	0	--	--	--	0.0	439	435	W	W	5.4	W
May	0	0	--	--	--	0.0	491	486	W	W	5.4	W
June	0	0	--	--	--	0.0	440	437	W	W	4.6	W
July	0	0	--	--	--	0.0	476	472	W	W	4.4	W
August	0	0	--	--	--	0.0	625	619	W	W	5.4	W
Sept	0	0	--	--	--	0.0	555	551	W	W	5.4	W
October	0	0	--	--	--	0.0	580	575	W	W	5.9	W
November	0	0	--	--	--	0.0	476	472	W	W	5.1	W
December	0	0	--	--	--	0.0	672	666	W	W	6.7	W
Year 2015												
January	0	0	--	--	--	0.0	552	545	W	W	5.0	W
February	0	0	--	--	--	0.0	378	372	W	W	3.8	W
March	0	0	--	--	--	0.0	438	432	W	W	4.0	W
April	0	0	--	--	--	0.0	420	413	W	W	4.5	W
May	0	0	--	--	--	0.0	494	488	W	W	4.7	W
June	0	0	--	--	--	0.0	522	513	W	W	5.0	W
July	0	0	--	--	--	0.0	540	528	W	W	4.8	W
August	0	0	--	--	--	0.0	694	680	W	W	6.0	W
Sept	0	0	--	--	--	0.0	632	620	W	W	5.7	W
October	0	0	--	--	--	0.0	530	523	W	W	5.1	W
November	0	0	--	--	--	0.0	775	749	W	W	7.0	W
December	0	0	--	--	--	0.0	524	507	W	W	4.6	W
Year 2016												
January	0	0	--	--	--	0.0	1,241	1,203	W	W	10.5	W
February	0	0	--	--	--	0.0	488	477	W	W	4.6	W
March	0	0	--	--	--	0.0	620	610	W	W	5.7	W
April	0	0	--	--	--	0.0	578	567	W	W	5.5	W
May	0	0	--	--	--	0.0	599	587	W	W	5.8	W
June	0	0	--	--	--	0.0	599	585	W	W	5.6	W
Year to Date												
2014	0	0	--	--	--	0.0	2,465	2,441	W	W	4.2	W
2015	0	0	--	--	--	0.0	2,805	2,764	W	W	4.5	W
2016	0	0	--	--	--	0.0	4,125	4,029	W	W	6.4	W
Rolling 12 Months Ending in June												
2015	0	0	--	--	--	0.0	6,188	6,119	W	W	5.0	W
2016	0	0	--	--	--	0.0	7,819	7,636	W	W	5.9	W

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

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- See the Technical Notes for fuel conversion factors.
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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2006 - June 2016

	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												
2006	320,640	15,208	2.03	42.76	1.47	60.2	19,514	3,214	7.57	45.95	1.30	21.2
2007	303,091	13,540	2.20	49.16	1.36	60.1	33,637	5,514	8.53	52.06	1.33	38.8
2008	493,724	22,044	2.72	60.96	1.28	100.7	48,822	7,958	12.50	76.69	1.01	109.0
2009	431,686	19,661	2.81	61.68	1.22	99.5	55,899	9,232	9.83	59.52	0.83	112.8
2010	468,991	21,492	2.75	60.08	1.26	87.2	33,276	5,554	13.21	79.15	0.93	125.6
2011	476,108	22,204	2.93	62.86	1.33	99.5	28,939	4,878	17.67	104.83	1.08	144.8
2012	285,172	13,206	3.02	65.24	1.33	65.8	6,739	1,095	W	W	1.52	40.8
2013	275,543	12,727	W	W	1.32	64.4	2,431	394	18.20	112.29	1.43	15.8
2014	281,867	13,050	W	W	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	187,621	8,263	W	W	1.57	45.8	4,356	713	13.15	80.30	1.75	30.1
Year 2014												
January	23,384	1,093	W	W	1.29	61.0	385	62	18.67	115.30	1.30	15.0
February	21,991	1,020	W	W	1.33	62.5	332	53	20.18	125.46	1.04	19.1
March	25,143	1,161	2.92	63.25	1.41	67.2	135	22	20.74	127.74	1.16	9.3
April	22,469	1,042	3.09	66.66	1.31	70.8	142	23	17.86	110.18	1.60	14.8
May	22,090	1,028	W	W	1.27	66.3	144	23	17.67	109.00	1.70	13.6
June	21,987	1,014	W	W	1.40	65.9	197	32	18.15	111.64	1.79	19.5
July	24,237	1,122	W	W	1.29	70.6	149	24	16.89	103.81	1.54	16.2
August	25,258	1,165	W	W	1.35	73.2	117	19	W	W	1.59	14.2
Sept	23,305	1,073	W	W	1.28	71.5	140	23	17.75	108.43	1.86	14.5
October	23,967	1,110	W	W	1.35	74.9	150	25	16.21	98.83	1.56	14.8
November	23,701	1,098	W	W	1.37	70.7	169	28	17.46	105.26	1.42	15.1
December	24,334	1,125	W	W	1.30	68.4	230	38	14.15	85.81	1.33	22.4
Year 2015												
January	17,776	773	W	W	1.59	46.2	159	26	12.53	76.07	2.04	9.7
February	13,311	585	2.87	65.23	1.67	39.2	405	67	16.55	99.49	1.65	18.9
March	17,748	778	W	W	1.48	49.1	1,607	262	W	W	1.99	124.2
April	14,725	649	W	W	1.67	46.5	247	41	13.17	78.37	1.00	24.0
May	15,203	676	W	W	1.46	46.8	59	10	14.16	86.77	1.50	5.1
June	15,221	670	W	W	1.58	46.7	195	31	12.73	79.17	1.58	17.5
July	17,508	778	W	W	1.54	49.8	350	57	12.95	79.16	1.84	35.1
August	15,865	703	W	W	1.48	45.1	127	21	13.09	79.74	1.66	14.2
Sept	15,532	686	W	W	1.39	46.4	487	79	12.03	74.16	1.89	43.5
October	14,220	624	W	W	1.69	45.5	330	55	12.73	76.79	1.28	36.1
November	15,757	686	W	W	1.76	45.6	170	28	11.56	70.68	1.41	15.1
December	14,754	654	W	W	1.57	43.1	220	36	11.82	72.72	1.56	21.6
Year 2016												
January	14,296	638	W	W	1.51	41.5	142	23	10.87	67.07	1.55	11.6
February	12,538	566	W	W	1.62	39.4	274	45	8.45	51.85	1.10	25.8
March	14,648	658	W	W	1.42	47.5	170	28	8.30	51.02	1.13	24.3
April	12,469	554	W	W	1.59	51.1	177	29	W	W	1.35	23.2
May	12,646	573	2.76	60.99	1.52	48.5	84	14	11.02	66.30	1.65	7.7
June	13,814	619	2.78	62.01	1.38	50.8	190	31	9.59	58.65	1.48	18.9
Year to Date												
2014	137,064	6,358	2.93	63.20	1.34	65.5	1,335	216	18.99	117.31	1.37	15.2
2015	93,984	4,131	2.85	64.91	1.57	45.8	2,671	438	13.65	83.25	1.80	31.8
2016	80,411	3,608	W	W	1.50	46.0	1,038	170	9.27	56.66	1.31	17.8
Rolling 12 Months Ending in June												
2015	238,787	10,823	W	W	1.42	58.8	3,626	595	W	W	1.73	25.4
2016	174,048	7,739	W	W	1.54	45.9	2,723	445	W	W	1.53	22.8

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

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

- Values for 2014 and prior years are final. Values for 2015 and 2016 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 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2006 - June 2016 (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												
2006	17,875	646	1.63	45.05	5.43	42.7	869,157	844,211	7.02	7.22	75.7	5.64
2007	19,700	698	1.96	55.42	5.52	43.6	896,803	871,178	6.97	7.18	82.9	5.78
2008	39,246	1,396	3.34	93.84	4.92	117.9	1,099,613	1,068,372	8.95	9.22	111.9	7.10
2009	38,924	1,381	1.80	50.82	4.51	114.2	1,117,489	1,088,880	4.27	4.38	110.0	4.02
2010	35,866	1,269	2.46	69.38	4.90	100.5	1,166,768	1,135,917	4.64	4.77	110.4	4.24
2011	37,981	1,351	W	W	5.03	108.3	1,331,977	1,296,628	4.28	4.40	122.0	W
2012	23,861	858	2.62	72.96	5.86	42.2	834,245	813,288	2.97	3.05	70.8	W
2013	17,236	623	W	W	5.82	30.5	750,946	728,835	W	W	62.3	W
2014	9,736	358	W	W	5.83	23.2	742,347	718,360	W	W	62.7	W
2015	5,447	196	W	W	5.94	12.9	732,593	708,716	W	W	60.6	W
Year 2014												
January	398	15	W	W	5.87	11.7	66,078	64,072	W	W	60.7	W
February	339	13	W	W	5.95	11.2	59,291	57,453	W	W	64.6	W
March	834	31	W	W	5.76	24.3	65,433	63,434	W	W	67.2	W
April	755	28	W	W	5.88	19.7	58,439	56,714	W	W	63.4	W
May	408	15	W	W	5.78	11.7	60,012	58,094	W	W	63.1	W
June	990	36	W	W	5.66	25.6	60,327	58,411	W	W	64.0	W
July	794	29	W	W	5.79	20.2	64,393	62,325	W	W	62.9	W
August	912	34	W	W	5.80	25.1	64,667	62,493	W	W	62.0	W
Sept	997	36	W	W	5.92	27.6	59,277	57,273	W	W	60.5	W
October	950	34	W	W	5.92	33.0	58,228	56,273	W	W	59.5	W
November	1,071	40	W	W	5.83	33.3	61,753	59,657	W	W	63.3	W
December	1,286	47	W	W	5.86	36.1	64,449	62,162	W	W	62.3	W
Year 2015												
January	788	29	W	W	5.74	18.1	60,633	58,625	W	W	57.4	W
February	481	17	W	W	6.17	11.2	57,569	55,731	W	W	61.7	W
March	601	21	W	W	5.99	13.5	61,124	59,136	W	W	61.2	W
April	712	25	W	W	6.18	18.1	57,402	55,568	W	W	61.4	W
May	410	14	W	W	6.14	12.8	59,979	57,979	W	W	61.4	W
June	659	24	W	W	5.64	19.6	61,171	58,979	W	W	61.3	W
July	422	16	W	W	5.68	12.8	64,482	62,227	W	W	61.9	W
August	251	9	W	W	6.00	7.5	65,392	63,289	W	W	61.5	W
Sept	386	14	W	W	6.21	11.2	61,022	59,033	W	W	61.6	W
October	0	0	--	--	--	0.0	54,884	53,173	W	W	56.3	W
November	153	5	W	W	6.30	4.5	62,502	60,567	W	W	60.7	W
December	584	22	W	W	5.78	22.6	66,433	64,409	W	W	60.5	W
Year 2016												
January	400	15	W	W	5.94	15.0	62,039	60,035	W	W	57.9	W
February	122	4	W	W	6.10	4.1	55,223	53,448	W	W	55.9	W
March	574	21	W	W	5.88	17.7	60,786	59,017	W	W	59.0	W
April	669	25	W	W	5.81	27.0	60,724	58,914	W	W	60.2	W
May	206	8	W	W	5.64	8.5	60,427	58,714	W	W	59.7	W
June	222	8	W	W	5.94	8.3	61,662	59,902	W	W	59.7	W
Year to Date												
2014	3,725	138	W	W	5.79	17.6	369,581	358,178	W	W	63.8	W
2015	3,651	131	W	W	5.95	15.5	357,879	346,019	W	W	60.7	W
2016	2,192	80	W	W	5.87	13.4	360,862	350,029	W	W	58.8	W
Rolling 12 Months Ending in June												
2015	9,662	351	W	W	5.89	21.8	730,645	706,200	W	W	61.2	W
2016	3,987	146	W	W	5.89	11.4	735,577	712,727	W	W	59.6	W

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

- Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary.
- See Glossary for definitions.
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- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

Table 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, June 2016 and 2015
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	25	56	-56.0%	20	52	3	3	0	0	1	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	4	4	6.6%	0	0	3	3	0	0	1	1
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	20	52	-61.0%	20	52	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,576	2,440	-35.0%	0	0	1,543	2,407	0	0	33	33
New Jersey	52	69	-24.0%	0	0	52	69	0	0	0	0
New York	70	82	-15.0%	0	0	45	57	0	0	25	25
Pennsylvania	1,455	2,290	-36.0%	0	0	1,446	2,282	0	0	8	8
East North Central	11,620	13,141	-12.0%	7,474	8,787	3,980	4,140	0	7	166	207
Illinois	3,115	3,466	-10.0%	956	800	2,028	2,533	0	0	131	133
Indiana	2,520	2,780	-9.3%	2,384	2,526	136	253	0	0	0	0
Michigan	1,895	2,954	-36.0%	1,876	2,895	19	51	0	7	0	0
Ohio	2,462	2,410	2.1%	652	1,089	1,797	1,303	0	0	12	18
Wisconsin	1,627	1,531	6.3%	1,605	1,476	0	0	0	0	22	56
West North Central	9,527	10,132	-6.0%	9,413	10,012	0	0	0	2	114	117
Iowa	1,561	1,812	-14.0%	1,448	1,694	0	0	0	0	114	117
Kansas	1,201	1,272	-5.6%	1,201	1,272	0	0	0	0	0	0
Minnesota	760	1,321	-42.0%	760	1,321	0	0	0	0	0	0
Missouri	2,931	2,853	2.7%	2,931	2,851	0	0	0	2	0	0
Nebraska	1,053	1,019	3.4%	1,053	1,019	0	0	0	0	0	0
North Dakota	1,921	1,842	4.3%	1,921	1,842	0	0	0	0	0	0
South Dakota	99	13	658.0%	99	13	0	0	0	0	0	0
South Atlantic	7,254	9,189	-21.0%	6,552	8,062	633	1,026	0	0	68	101
Delaware	27	0	NM	0	0	27	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,179	1,734	-32.0%	1,128	1,634	52	101	0	0	0	0
Georgia	1,471	1,749	-16.0%	1,458	1,738	0	0	0	0	13	12
Maryland	275	723	-62.0%	0	0	259	700	0	0	16	23
North Carolina	829	1,003	-17.0%	829	1,003	0	0	0	0	0	0
South Carolina	651	1,025	-36.0%	644	1,008	0	0	0	0	8	17
Virginia	539	752	-28.0%	488	664	23	69	0	0	28	19
West Virginia	2,281	2,203	3.5%	2,006	2,016	272	156	0	0	3	31
East South Central	5,588	6,637	-16.0%	5,180	6,254	309	264	0	0	99	118
Alabama	1,453	1,721	-16.0%	1,453	1,721	0	0	0	0	0	0
Kentucky	2,939	3,399	-14.0%	2,939	3,399	0	0	0	0	0	0
Mississippi	331	476	-31.0%	21	212	309	264	0	0	0	0
Tennessee	865	1,040	-17.0%	767	922	0	0	0	0	99	118
West South Central	9,224	10,353	-11.0%	4,556	5,231	4,663	5,117	0	0	5	6
Arkansas	1,078	1,007	7.0%	924	854	149	148	0	0	5	6
Louisiana	592	749	-21.0%	495	420	97	329	0	0	0	0
Oklahoma	783	1,388	-44.0%	676	1,279	108	109	0	0	0	0
Texas	6,771	7,209	-6.1%	2,462	2,678	4,310	4,531	0	0	0	0
Mountain	7,230	8,525	-15.0%	6,546	7,653	625	827	0	0	58	44
Arizona	1,067	1,576	-32.0%	1,067	1,576	0	0	0	0	0	0
Colorado	1,239	1,632	-24.0%	1,239	1,632	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	566	767	-26.0%	0	0	566	767	0	0	0	0
Nevada	59	61	-2.4%	0	0	59	61	0	0	0	0
New Mexico	1,163	1,108	5.0%	1,163	1,108	0	0	0	0	0	0
Utah	1,181	1,305	-9.6%	1,122	1,261	0	0	0	0	58	44
Wyoming	1,955	2,076	-5.8%	1,955	2,076	0	0	0	0	0	0
Pacific Contiguous	272	412	-34.0%	110	165	85	204	0	0	77	43
California	77	43	78.0%	0	0	0	0	0	0	77	43
Oregon	110	165	-33.0%	110	165	0	0	0	0	0	0
Washington	85	204	-58.0%	0	0	85	204	0	0	0	0
Pacific Noncontiguous	12	17	-30.0%	12	17	0	0	0	0	0	0
Alaska	12	17	-30.0%	12	17	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	52,327	60,901	-14.0%	39,864	46,233	11,843	13,988	0	9	619	670

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NM = Not meaningful due to large relative standard error or excessive percentage change.
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Notes:
See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, (Year-to-Date) June 2016 and 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	645	1,264	-49.0%	53	359	586	884	0	0	7	22
Connecticut	85	251	-66.0%	0	0	85	251	0	0	0	0
Maine	42	67	-38.0%	0	0	35	46	0	0	7	22
Massachusetts	466	587	-21.0%	0	0	466	587	0	0	0	0
New Hampshire	53	359	-85.0%	53	359	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	8,944	14,649	-39.0%	0	0	8,739	14,427	0	0	205	222
New Jersey	283	510	-45.0%	0	0	283	510	0	0	0	0
New York	191	487	-61.0%	0	0	45	333	0	0	146	154
Pennsylvania	8,470	13,652	-38.0%	0	0	8,411	13,584	0	0	59	68
East North Central	63,178	84,455	-25.0%	39,307	52,063	22,663	31,034	0	18	1,207	1,339
Illinois	17,900	27,172	-34.0%	4,933	5,239	12,105	20,973	0	0	862	960
Indiana	14,339	18,417	-22.0%	13,376	17,047	963	1,370	0	0	0	0
Michigan	8,928	12,638	-29.0%	8,830	12,486	88	113	0	18	10	20
Ohio	14,221	15,327	-7.2%	4,590	6,620	9,507	8,577	0	0	124	130
Wisconsin	7,790	10,900	-29.0%	7,579	10,671	0	0	0	0	211	229
West North Central	52,903	67,931	-22.0%	52,277	67,263	0	0	19	53	607	615
Iowa	8,043	10,450	-23.0%	7,437	9,835	0	0	0	0	607	615
Kansas	6,069	9,136	-34.0%	6,069	9,136	0	0	0	0	0	0
Minnesota	5,116	9,139	-44.0%	5,116	9,125	0	0	0	14	0	0
Missouri	16,593	20,825	-20.0%	16,574	20,786	0	0	19	39	0	0
Nebraska	5,928	6,453	-8.1%	5,928	6,453	0	0	0	0	0	0
North Dakota	10,554	11,541	-8.6%	10,554	11,541	0	0	0	0	0	0
South Dakota	601	387	55.0%	601	387	0	0	0	0	0	0
South Atlantic	44,492	55,159	-19.0%	39,083	48,450	4,927	5,988	0	0	483	721
Delaware	157	152	3.6%	0	0	157	152	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	6,575	9,796	-33.0%	6,438	9,529	137	267	0	0	0	0
Georgia	7,842	9,943	-21.0%	7,773	9,822	0	0	0	0	69	121
Maryland	2,130	3,281	-35.0%	0	0	2,010	3,116	0	0	119	165
North Carolina	4,735	7,408	-36.0%	4,735	7,408	0	0	0	0	0	0
South Carolina	4,418	5,917	-25.0%	4,352	5,834	0	0	0	0	66	83
Virginia	3,830	3,811	0.5%	3,486	3,282	182	359	0	0	162	170
West Virginia	14,805	14,852	-0.3%	12,299	12,575	2,440	2,094	0	0	66	183
East South Central	30,118	38,080	-21.0%	28,064	35,736	1,396	1,601	0	0	659	743
Alabama	7,285	10,002	-27.0%	7,285	10,002	0	0	0	0	0	0
Kentucky	17,596	20,676	-15.0%	17,596	20,676	0	0	0	0	0	0
Mississippi	1,642	2,405	-32.0%	247	804	1,396	1,601	0	0	0	0
Tennessee	3,594	4,997	-28.0%	2,936	4,254	0	0	0	0	659	743
West South Central	42,844	62,657	-32.0%	21,071	33,242	21,743	29,373	0	0	30	42
Arkansas	5,737	7,195	-20.0%	4,786	5,848	922	1,305	0	0	30	42
Louisiana	3,117	5,213	-40.0%	2,367	2,836	750	2,377	0	0	0	0
Oklahoma	4,428	9,139	-52.0%	3,926	8,510	503	629	0	0	0	0
Texas	29,562	41,110	-28.0%	9,993	16,048	19,569	25,062	0	0	0	0
Mountain	39,383	50,782	-22.0%	35,546	46,259	3,743	4,419	0	0	94	104
Arizona	6,434	10,677	-40.0%	6,434	10,677	0	0	0	0	0	0
Colorado	7,283	9,583	-24.0%	7,283	9,583	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	3,523	4,192	-16.0%	0	0	3,523	4,192	0	0	0	0
Nevada	424	565	-25.0%	204	338	220	227	0	0	0	0
New Mexico	4,867	5,940	-18.0%	4,867	5,940	0	0	0	0	0	0
Utah	6,098	7,647	-20.0%	6,004	7,543	0	0	0	0	94	104
Wyoming	10,754	12,178	-12.0%	10,754	12,178	0	0	0	0	0	0
Pacific Contiguous	1,586	2,429	-35.0%	345	534	924	1,571	0	0	317	324
California	317	324	-2.2%	0	0	0	0	0	0	317	324
Oregon	345	534	-35.0%	345	534	0	0	0	0	0	0
Washington	924	1,571	-41.0%	0	0	924	1,571	0	0	0	0
Pacific Noncontiguous	469	313	50.0%	107	17	361	296	0	0	0	0
Alaska	107	17	537.0%	107	17	0	0	0	0	0	0
Hawaii	361	296	22.0%	0	0	361	296	0	0	0	0
U.S. Total	284,561	377,718	-25.0%	215,853	283,922	65,081	89,593	19	71	3,608	4,131

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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, June 2016 and 2015
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	39	54	-28.0%	1	0	38	54	0	0	0	0
Connecticut	0	27	-100.0%	0	0	0	27	0	0	0	0
Maine	0	2	-78.0%	0	0	0	2	0	0	0	0
Massachusetts	38	25	50.0%	0	0	38	25	0	0	0	0
New Hampshire	1	0	566.0%	1	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	49	47	3.7%	0	1	48	45	0	0	1	1
New Jersey	2	1	131.0%	0	0	2	1	0	0	0	0
New York	3	5	-44.0%	0	1	2	3	0	0	1	1
Pennsylvania	44	42	5.6%	0	0	44	42	0	0	0	0
East North Central	76	112	-32.0%	47	79	23	29	0	0	6	4
Illinois	14	10	33.0%	2	3	12	7	0	0	0	0
Indiana	17	40	-58.0%	17	40	0	0	0	0	0	0
Michigan	17	21	-21.0%	14	18	0	0	0	0	3	3
Ohio	24	37	-34.0%	9	15	12	22	0	0	3	1
Wisconsin	5	4	33.0%	5	4	0	0	0	0	0	0
West North Central	43	23	85.0%	43	23	0	0	0	0	0	0
Iowa	18	7	149.0%	18	7	0	0	0	0	0	0
Kansas	6	0	--	6	0	0	0	0	0	0	0
Minnesota	2	3	-10.0%	2	3	0	0	0	0	0	0
Missouri	7	9	-21.0%	7	9	0	0	0	0	0	0
Nebraska	1	0	--	1	0	0	0	0	0	0	0
North Dakota	9	5	86.0%	9	5	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	240	537	-55.0%	180	458	36	53	0	0	23	26
Delaware	2	2	1.3%	0	0	2	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	84	238	-65.0%	84	237	0	0	0	0	0	0
Georgia	21	21	-0.4%	10	11	0	0	0	0	11	10
Maryland	10	41	-76.0%	0	0	10	41	0	0	0	0
North Carolina	20	19	4.6%	20	19	0	0	0	0	0	0
South Carolina	31	23	32.0%	21	13	0	0	0	0	10	10
Virginia	33	159	-79.0%	6	142	25	10	0	0	2	6
West Virginia	40	35	12.0%	40	35	0	0	0	0	0	0
East South Central	39	42	-7.6%	38	42	0	0	0	0	1	0
Alabama	5	6	-8.9%	5	6	0	0	0	0	0	0
Kentucky	13	19	-29.0%	13	19	0	0	0	0	0	0
Mississippi	2	2	-18.0%	2	2	0	0	0	0	0	0
Tennessee	19	15	20.0%	18	15	0	0	0	0	1	0
West South Central	31	38	-19.0%	20	35	11	3	0	0	0	0
Arkansas	9	5	72.0%	5	5	4	1	0	0	0	0
Louisiana	3	5	-48.0%	3	5	0	1	0	0	0	0
Oklahoma	2	1	148.0%	2	1	0	0	0	0	0	0
Texas	17	27	-37.0%	11	25	7	2	0	0	0	0
Mountain	26	28	-4.4%	24	27	2	1	0	0	0	0
Arizona	2	4	-42.0%	2	4	0	0	0	0	0	0
Colorado	1	0	--	1	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	0	--	0	0	2	0	0	0	0	0
Nevada	5	5	-1.0%	4	4	0	1	0	0	0	0
New Mexico	5	7	-19.0%	5	7	0	0	0	0	0	0
Utah	2	2	1.5%	2	2	0	0	0	0	0	0
Wyoming	9	10	-15.0%	9	10	0	0	0	0	0	0
Pacific Contiguous	5	2	184.0%	0	0	5	2	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	5	2	184.0%	0	0	5	2	0	0	0	0
Pacific Noncontiguous	696	734	-5.2%	553	569	143	166	0	0	0	0
Alaska	1	4	-83.0%	1	4	0	0	0	0	0	0
Hawaii	696	731	-4.8%	553	565	143	166	0	0	0	0
U.S. Total	1,245	1,618	-23.0%	907	1,234	307	353	0	0	31	31

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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) June 2016 and 2015
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	198	1,237	-84.0%	71	61	124	1,145	0	0	2	32
Connecticut	25	285	-91.0%	0	0	25	285	0	0	0	0
Maine	15	485	-97.0%	0	0	12	453	0	0	2	32
Massachusetts	144	378	-62.0%	65	5	78	372	0	0	0	0
New Hampshire	6	78	-93.0%	6	55	0	23	0	0	0	0
Rhode Island	8	11	-29.0%	0	0	8	11	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	352	2,640	-87.0%	15	962	328	1,674	0	0	9	5
New Jersey	7	51	-86.0%	0	0	7	51	0	0	0	0
New York	148	1,968	-92.0%	15	962	126	1,001	0	0	6	5
Pennsylvania	198	621	-68.0%	0	0	195	621	0	0	3	0
East North Central	490	601	-18.0%	315	418	157	161	0	0	18	22
Illinois	73	48	51.0%	14	14	59	34	0	0	0	0
Indiana	102	168	-39.0%	102	168	0	0	0	0	0	0
Michigan	96	100	-3.8%	91	93	0	0	0	0	5	7
Ohio	198	250	-21.0%	87	108	99	127	0	0	13	14
Wisconsin	21	35	-40.0%	21	34	0	0	0	0	0	1
West North Central	186	210	-12.0%	186	210	0	0	0	0	0	0
Iowa	52	34	54.0%	52	34	0	0	0	0	0	0
Kansas	22	49	-55.0%	22	49	0	0	0	0	0	0
Minnesota	10	13	-21.0%	10	13	0	0	0	0	0	0
Missouri	57	81	-29.0%	57	81	0	0	0	0	0	0
Nebraska	2	0	--	2	0	0	0	0	0	0	0
North Dakota	39	27	43.0%	39	27	0	0	0	0	0	0
South Dakota	2	6	-61.0%	2	6	0	0	0	0	0	0
South Atlantic	1,982	2,976	-33.0%	1,490	2,029	356	569	0	0	136	378
Delaware	45	59	-23.0%	0	0	45	59	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	291	408	-29.0%	291	406	0	2	0	0	0	0
Georgia	166	205	-19.0%	101	95	31	75	0	0	35	35
Maryland	114	157	-27.0%	0	0	114	157	0	0	0	0
North Carolina	185	383	-52.0%	124	350	61	33	0	0	0	0
South Carolina	183	327	-44.0%	96	251	0	7	0	0	88	69
Virginia	890	1,335	-33.0%	771	830	105	232	0	0	14	274
West Virginia	107	101	6.6%	107	98	0	2	0	0	0	0
East South Central	245	309	-21.0%	230	281	10	27	0	0	5	1
Alabama	49	80	-39.0%	38	53	10	27	0	0	0	0
Kentucky	97	92	5.3%	97	92	0	0	0	0	0	0
Mississippi	16	16	-0.9%	16	16	0	0	0	0	0	0
Tennessee	83	121	-31.0%	79	120	0	0	0	0	5	1
West South Central	162	223	-27.0%	126	155	36	68	0	0	0	0
Arkansas	45	52	-13.0%	34	39	11	13	0	0	0	0
Louisiana	48	79	-39.0%	46	62	2	18	0	0	0	0
Oklahoma	3	2	62.0%	3	2	0	0	0	0	0	0
Texas	67	91	-27.0%	44	53	23	38	0	0	0	0
Mountain	181	207	-13.0%	170	197	11	11	0	0	0	0
Arizona	52	61	-16.0%	52	61	0	0	0	0	0	0
Colorado	10	5	82.0%	10	5	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	9	8	9.7%	0	0	9	8	0	0	0	0
Nevada	12	15	-24.0%	9	13	2	3	0	0	0	0
New Mexico	50	63	-20.0%	50	63	0	0	0	0	0	0
Utah	15	20	-25.0%	15	20	0	0	0	0	0	0
Wyoming	34	35	-2.5%	34	35	0	0	0	0	0	0
Pacific Contiguous	7	5	36.0%	0	0	7	5	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	7	5	36.0%	0	0	7	5	0	0	0	0
Pacific Noncontiguous	4,305	4,648	-7.4%	3,416	3,710	889	937	0	0	0	0
Alaska	4	4	-5.2%	4	4	0	0	0	0	0	0
Hawaii	4,301	4,644	-7.4%	3,412	3,707	889	937	0	0	0	0
U.S. Total	8,107	13,057	-38.0%	6,018	8,023	1,919	4,596	0	0	170	438

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

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

Table 4.8.A. Receipts of Petroleum Coke Delivered for Electricity Generation by State, June 2016 and 2015
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
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	29	147	-80.0%	17	102	12	44	0	0	0	1
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	57	-100.0%	0	57	0	0	0	0	0	0
Michigan	15	42	-65.0%	15	42	0	0	0	0	0	0
Ohio	12	44	-72.0%	0	0	12	44	0	0	0	0
Wisconsin	2	4	-45.0%	2	2	0	0	0	0	0	1
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	125	85	48.0%	117	62	0	0	0	0	8	23
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	117	62	89.0%	117	62	0	0	0	0	0	0
Georgia	8	23	-66.0%	0	0	0	0	0	0	8	23
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	60	-100.0%	0	60	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	60	-100.0%	0	60	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	86	37	129.0%	86	37	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	86	37	129.0%	86	37	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	240	330	-27.0%	220	262	12	44	0	0	8	24

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

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

Table 4.8.B. Receipts of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) June 2016 and 2015
(Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 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	552	640	-14.0%	315	350	218	251	0	0	18	39
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	162	161	0.4%	162	161	0	0	0	0	0	0
Michigan	142	190	-25.0%	142	177	0	13	0	0	0	0
Ohio	218	238	-8.2%	0	0	218	238	0	0	0	0
Wisconsin	30	51	-41.0%	12	12	0	0	0	0	18	39
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	748	496	51.0%	685	405	0	0	0	0	62	92
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	685	405	69.0%	685	405	0	0	0	0	0	0
Georgia	62	92	-32.0%	0	0	0	0	0	0	62	92
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	47	346	-86.0%	47	346	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	47	346	-86.0%	47	346	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	681	818	-17.0%	681	818	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	681	818	-17.0%	681	818	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	2,028	2,300	-12.0%	1,729	1,919	218	251	0	0	80	131

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

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

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

Table 4.9.A. Receipts of Natural Gas Delivered for Electricity Generation by State, June 2016 and 2015
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	35,019	33,441	4.7%	57	115	34,962	33,222	0	0	0	103
Connecticut	8,886	9,165	-3.0%	0	0	8,886	9,165	0	0	0	0
Maine	1,781	682	161.0%	0	0	1,781	578	0	0	0	103
Massachusetts	16,753	13,855	21.0%	30	115	16,722	13,739	0	0	0	0
New Hampshire	2,856	3,619	-21.0%	27	0	2,829	3,619	0	0	0	0
Rhode Island	4,743	6,120	-22.0%	0	0	4,743	6,120	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	113,604	94,265	21.0%	10,950	9,580	102,461	84,562	0	0	194	123
New Jersey	28,810	22,890	26.0%	0	0	28,810	22,890	0	0	0	0
New York	39,768	35,448	12.0%	10,950	9,580	28,757	25,804	0	0	62	63
Pennsylvania	45,027	35,928	25.0%	0	0	44,895	35,868	0	0	132	59
East North Central	74,929	53,137	41.0%	34,865	22,681	38,773	29,616	419	400	873	440
Illinois	12,185	6,124	99.0%	1,382	405	10,801	5,708	0	0	3	11
Indiana	13,073	8,631	51.0%	11,034	7,547	2,039	1,085	0	0	0	0
Michigan	21,002	13,225	59.0%	7,485	2,716	12,594	9,726	419	400	505	383
Ohio	17,786	17,365	2.4%	5,480	4,771	12,197	12,588	0	0	108	7
Wisconsin	10,883	7,791	40.0%	9,485	7,242	1,142	509	0	0	257	39
West North Central	19,483	13,473	45.0%	16,205	11,925	3,112	1,435	166	113	0	0
Iowa	2,564	2,656	-3.4%	2,564	2,656	0	0	0	0	0	0
Kansas	2,622	1,513	73.0%	2,622	1,513	0	0	0	0	0	0
Minnesota	6,001	4,335	38.0%	4,547	3,839	1,452	496	1	0	0	0
Missouri	6,513	3,825	70.0%	4,688	2,773	1,660	940	165	112	0	0
Nebraska	997	527	89.0%	997	527	0	0	0	0	0	0
North Dakota	216	31	601.0%	216	31	0	0	0	0	0	0
South Dakota	571	587	-2.7%	571	587	0	0	0	0	0	0
South Atlantic	229,884	216,981	5.9%	182,326	172,859	44,627	41,000	0	0	2,931	3,123
Delaware	6,632	5,338	24.0%	0	0	5,600	4,216	0	0	1,032	1,123
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	111,663	103,546	7.8%	100,380	98,295	11,282	5,251	0	0	0	0
Georgia	40,369	34,583	17.0%	30,557	20,863	9,208	12,522	0	0	603	1,198
Maryland	3,624	4,074	-11.0%	0	0	3,430	4,047	0	0	193	27
North Carolina	23,760	26,351	-9.8%	20,136	23,233	3,625	3,118	0	0	0	0
South Carolina	12,015	14,083	-15.0%	10,425	12,197	1,408	1,849	0	0	181	36
Virginia	30,238	27,432	10.0%	20,757	18,105	8,860	8,587	0	0	621	739
West Virginia	1,584	1,575	0.6%	71	166	1,213	1,409	0	0	300	0
East South Central	90,641	77,320	17.0%	56,912	46,314	32,526	30,385	0	0	1,203	621
Alabama	37,118	34,173	8.6%	10,542	8,660	26,575	25,513	0	0	0	0
Kentucky	6,870	3,702	86.0%	6,281	2,878	588	825	0	0	0	0
Mississippi	36,194	31,804	14.0%	30,831	27,756	5,363	4,048	0	0	0	0
Tennessee	10,460	7,641	37.0%	9,257	7,019	0	0	0	0	1,203	621
West South Central	281,190	260,623	7.9%	96,447	81,089	133,207	128,338	0	0	51,536	51,196
Arkansas	16,601	9,827	69.0%	6,637	3,024	9,713	6,540	0	0	252	262
Louisiana	50,614	51,187	-1.1%	27,812	29,725	4,943	3,883	0	0	17,858	17,579
Oklahoma	31,555	22,180	42.0%	22,787	13,692	8,768	8,488	0	0	0	0
Texas	182,420	177,430	2.8%	39,211	34,649	109,783	109,426	0	0	33,426	33,355
Mountain	74,303	69,667	6.7%	56,957	49,524	17,291	20,095	0	0	55	49
Arizona	31,035	30,002	3.4%	17,354	15,086	13,681	14,916	0	0	0	0
Colorado	9,727	7,689	27.0%	8,088	6,146	1,639	1,543	0	0	0	0
Idaho	1,534	2,928	-48.0%	1,534	1,891	0	1,036	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	19,828	19,701	0.6%	19,828	19,701	0	0	0	0	0	0
New Mexico	6,595	4,376	51.0%	4,864	2,101	1,731	2,274	0	0	0	0
Utah	5,582	4,962	12.0%	5,287	4,588	240	325	0	0	55	49
Wyoming	1	10	-88.0%	1	10	0	0	0	0	0	0
Pacific Contiguous	67,605	82,312	-18.0%	25,491	28,991	39,003	49,997	0	0	3,111	3,324
California	54,794	64,284	-15.0%	18,341	18,930	33,342	42,031	0	0	3,111	3,324
Oregon	7,906	10,530	-25.0%	4,010	3,754	3,896	6,776	0	0	0	0
Washington	4,905	7,498	-35.0%	3,139	6,307	1,766	1,190	0	0	0	0
Pacific Noncontiguous	908	1,389	-35.0%	908	1,389	0	0	0	0	0	0
Alaska	908	1,389	-35.0%	908	1,389	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	987,567	902,609	9.4%	481,119	424,467	445,962	418,650	585	513	59,902	58,979

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

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

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

Table 4.9.B. Receipts of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) June 2016 and 2015
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	174,901	160,064	9.3%	446	562	174,386	159,088	0	0	69	414
Connecticut	58,339	52,139	12.0%	0	0	58,339	52,139	0	0	0	0
Maine	10,172	7,741	31.0%	0	0	10,103	7,326	0	0	69	414
Massachusetts	70,663	58,701	20.0%	339	531	70,324	58,170	0	0	0	0
New Hampshire	13,586	20,072	-32.0%	108	31	13,479	20,041	0	0	0	0
Rhode Island	22,141	21,412	3.4%	0	0	22,141	21,412	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	535,359	489,643	9.3%	45,972	42,968	488,223	445,628	0	0	1,163	1,047
New Jersey	139,445	117,846	18.0%	0	0	139,445	117,846	0	0	0	0
New York	186,988	188,489	-0.8%	45,972	42,968	140,565	145,112	0	0	451	410
Pennsylvania	208,926	183,307	14.0%	0	0	208,213	182,670	0	0	712	637
East North Central	406,923	309,747	31.0%	177,275	130,008	221,223	174,142	3,262	2,291	5,163	3,305
Illinois	55,013	29,179	89.0%	5,210	1,216	49,787	27,927	0	0	16	37
Indiana	71,530	57,138	25.0%	57,462	44,287	14,068	12,851	0	0	0	0
Michigan	117,110	75,201	56.0%	32,412	15,679	78,513	55,141	3,262	2,291	2,924	2,090
Ohio	101,319	101,848	-0.5%	26,999	26,086	74,102	75,526	0	0	219	237
Wisconsin	61,950	46,380	34.0%	55,192	42,741	4,754	2,698	0	0	2,004	942
West North Central	78,416	54,148	45.0%	65,473	46,963	12,167	6,703	767	473	8	9
Iowa	13,379	9,870	36.0%	13,371	9,862	0	0	0	0	8	9
Kansas	6,023	4,817	25.0%	6,023	4,817	0	0	0	0	0	0
Minnesota	32,592	20,702	57.0%	26,387	18,085	6,203	2,550	2	68	0	0
Missouri	21,053	15,106	39.0%	14,323	10,547	5,964	4,154	765	405	0	0
Nebraska	1,732	1,216	42.0%	1,732	1,216	0	0	0	0	0	0
North Dakota	687	166	314.0%	687	166	0	0	0	0	0	0
South Dakota	2,949	2,270	30.0%	2,949	2,270	0	0	0	0	0	0
South Atlantic	1,146,368	1,053,807	8.8%	927,612	862,841	200,475	173,063	0	0	18,281	17,903
Delaware	27,818	27,169	2.4%	0	0	21,017	19,885	0	0	6,801	7,284
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	565,319	531,931	6.3%	521,240	509,758	44,078	22,173	0	0	0	0
Georgia	192,293	170,211	13.0%	137,764	110,762	49,520	53,446	0	0	5,009	6,003
Maryland	18,588	14,128	32.0%	0	0	17,503	13,947	0	0	1,085	181
North Carolina	145,631	130,226	12.0%	129,174	116,274	16,457	13,953	0	0	0	0
South Carolina	55,514	55,289	0.4%	44,643	49,575	9,786	5,368	0	0	1,084	346
Virginia	135,201	120,296	12.0%	94,311	75,721	37,092	40,487	0	0	3,799	4,088
West Virginia	6,004	4,556	32.0%	479	752	5,022	3,805	0	0	503	0
East South Central	430,165	407,062	5.7%	270,722	243,506	154,962	160,093	0	0	4,480	3,463
Alabama	181,799	181,492	0.2%	53,790	46,481	128,009	135,011	0	0	0	0
Kentucky	31,730	23,154	37.0%	29,453	20,860	2,277	2,294	0	0	0	0
Mississippi	174,748	165,068	5.9%	150,072	142,280	24,676	22,787	0	0	0	0
Tennessee	41,888	37,348	12.0%	37,407	33,885	0	0	0	0	4,480	3,463
West South Central	1,395,774	1,375,591	1.5%	422,030	380,531	673,133	693,445	0	0	300,610	301,614
Arkansas	60,524	59,790	1.2%	25,401	13,914	33,756	43,744	0	0	1,368	2,133
Louisiana	273,961	248,419	10.0%	137,443	140,043	30,195	12,448	0	0	106,324	95,928
Oklahoma	130,480	115,841	13.0%	92,047	77,249	38,433	38,592	0	0	0	0
Texas	930,808	951,540	-2.2%	167,140	149,325	570,749	598,661	0	0	192,919	203,554
Mountain	321,816	267,424	20.0%	259,622	203,055	61,787	64,092	0	0	408	278
Arizona	111,016	85,609	30.0%	73,117	47,311	37,900	38,298	0	0	0	0
Colorado	46,062	35,337	30.0%	38,644	26,767	7,417	8,569	0	0	0	0
Idaho	9,647	9,102	6.0%	5,737	5,329	3,909	3,774	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	92,465	84,054	10.0%	92,465	84,054	0	0	0	0	0	0
New Mexico	34,731	30,332	15.0%	22,639	17,258	12,092	13,075	0	0	0	0
Utah	27,866	22,934	22.0%	26,990	22,281	468	376	0	0	408	278
Wyoming	29	56	-48.0%	29	56	0	0	0	0	0	0
Pacific Contiguous	322,577	364,944	-12.0%	130,476	143,316	172,255	203,642	0	0	19,847	17,985
California	254,615	297,850	-15.0%	91,190	104,054	143,579	175,811	0	0	19,847	17,985
Oregon	40,901	43,119	-5.1%	17,184	17,261	23,718	25,858	0	0	0	0
Washington	27,060	23,974	13.0%	22,103	22,001	4,958	1,972	0	0	0	0
Pacific Noncontiguous	6,856	8,178	-16.0%	6,856	8,178	0	0	0	0	0	0
Alaska	6,856	8,178	-16.0%	6,856	8,178	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	4,819,154	4,490,607	7.3%	2,306,484	2,061,928	2,158,611	2,079,896	4,029	2,764	350,029	346,019

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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, June 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015
New England	W	W	W	4.11	4.00	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	--	--	--	--	--	--	--
New Hampshire	4.11	4.00	2.8%	4.11	4.00	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	2.35	W	--	--	W	2.35
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	1.79	2.29	-22.0%	--	--	1.79	2.29
East North Central	2.07	2.20	-5.9%	2.14	2.28	1.95	2.05
Illinois	W	W	W	1.94	2.00	W	W
Indiana	W	W	W	2.20	2.29	W	W
Michigan	W	W	W	2.23	2.36	W	W
Ohio	2.08	2.19	-5.0%	1.86	2.14	2.16	2.24
Wisconsin	2.20	2.37	-7.2%	2.20	2.37	--	--
West North Central	1.70	1.70	0.0%	1.70	1.70	--	--
Iowa	1.60	1.60	0.0%	1.60	1.60	--	--
Kansas	1.67	1.71	-2.3%	1.67	1.71	--	--
Minnesota	2.02	1.88	7.4%	2.02	1.88	--	--
Missouri	1.84	1.84	0.0%	1.84	1.84	--	--
Nebraska	1.34	1.37	-2.2%	1.34	1.37	--	--
North Dakota	1.61	1.60	0.6%	1.61	1.60	--	--
South Dakota	2.25	2.91	-23.0%	2.25	2.91	--	--
South Atlantic	2.76	2.96	-6.8%	2.77	2.97	2.70	2.95
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.12	3.03	W	W
Georgia	2.90	2.94	-1.4%	2.90	2.94	--	--
Maryland	2.85	2.90	-1.7%	--	--	2.85	2.90
North Carolina	3.07	3.60	-15.0%	3.07	3.60	--	--
South Carolina	3.08	3.55	-13.0%	3.08	3.55	--	--
Virginia	W	W	W	2.74	2.77	W	W
West Virginia	W	2.36	W	2.29	2.38	W	1.94
East South Central	W	W	W	2.18	2.38	W	W
Alabama	2.35	2.60	-9.6%	2.35	2.60	--	--
Kentucky	2.12	2.24	-5.4%	2.12	2.24	--	--
Mississippi	W	W	W	2.47	3.09	W	W
Tennessee	2.15	2.38	-9.7%	2.15	2.38	--	--
West South Central	1.86	2.08	-11.0%	2.13	2.17	1.57	1.98
Arkansas	W	W	W	2.08	2.28	W	W
Louisiana	W	W	W	2.95	3.18	W	W
Oklahoma	W	W	W	1.98	1.94	W	W
Texas	1.72	2.01	-14.0%	2.04	2.10	1.53	1.96
Mountain	W	W	W	1.92	1.94	W	W
Arizona	2.12	2.04	3.9%	2.12	2.04	--	--
Colorado	1.99	1.97	1.0%	1.99	1.97	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	--	--	W	W
New Mexico	1.60	2.27	-30.0%	1.60	2.27	--	--
Utah	1.97	1.94	1.5%	1.97	1.94	--	--
Wyoming	1.91	1.66	15.0%	1.91	1.66	--	--
Pacific Contiguous	W	W	W	2.26	2.21	W	W
California	--	--	--	--	--	--	--
Oregon	2.26	2.21	2.3%	2.26	2.21	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	3.24	3.08	5.2%	3.24	3.08	--	--
Alaska	3.24	3.08	5.2%	3.24	3.08	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.09	2.25	-7.1%	2.15	2.27	1.88	2.16

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

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

Table 4.10.B. Average Cost of Coal Delivered for Electricity Generation by State, (Year-to-Date) June 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	3.09	3.63	-15.0%	4.00	3.89	3.00	3.51
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.00	3.89	2.8%	4.00	3.89	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.06	2.50	-18.0%	--	--	2.06	2.50
New Jersey	W	3.93	W	--	--	W	3.93
New York	W	3.14	W	--	--	W	3.14
Pennsylvania	2.00	2.43	-18.0%	--	--	2.00	2.43
East North Central	2.10	2.22	-5.4%	2.17	2.31	1.98	2.06
Illinois	W	1.94	W	1.96	2.02	W	1.92
Indiana	W	W	W	2.24	2.34	W	W
Michigan	W	W	W	2.25	2.46	W	W
Ohio	2.08	W	W	1.98	2.15	2.13	W
Wisconsin	2.18	2.34	-6.8%	2.18	2.34	--	--
West North Central	1.72	1.75	-1.7%	1.72	1.75	--	--
Iowa	1.61	1.64	-1.8%	1.61	1.64	--	--
Kansas	1.69	1.72	-1.7%	1.69	1.72	--	--
Minnesota	2.08	1.95	6.7%	2.08	1.95	--	--
Missouri	1.86	1.93	-3.6%	1.86	1.93	--	--
Nebraska	1.32	1.37	-3.6%	1.32	1.37	--	--
North Dakota	1.57	1.56	0.6%	1.57	1.56	--	--
South Dakota	2.25	2.19	2.7%	2.25	2.19	--	--
South Atlantic	2.76	2.97	-7.1%	2.79	3.01	2.51	2.73
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.04	3.06	W	W
Georgia	2.87	2.99	-4.0%	2.87	2.99	--	--
Maryland	2.76	2.92	-5.5%	--	--	2.76	2.92
North Carolina	3.08	3.55	-13.0%	3.08	3.55	--	--
South Carolina	3.24	3.58	-9.5%	3.24	3.58	--	--
Virginia	W	W	W	2.90	2.97	W	W
West Virginia	W	2.35	W	2.33	2.40	W	2.07
East South Central	W	W	W	2.21	2.35	W	W
Alabama	2.44	2.45	-0.4%	2.44	2.45	--	--
Kentucky	2.12	2.26	-6.2%	2.12	2.26	--	--
Mississippi	W	W	W	2.67	3.19	W	W
Tennessee	2.23	2.42	-7.9%	2.23	2.42	--	--
West South Central	1.91	2.07	-7.7%	2.16	2.17	1.65	1.95
Arkansas	W	W	W	2.21	2.25	W	W
Louisiana	W	W	W	2.77	2.85	W	W
Oklahoma	W	W	W	1.93	1.99	W	W
Texas	1.77	2.01	-12.0%	2.09	2.13	1.60	1.92
Mountain	W	W	W	1.87	1.92	W	W
Arizona	2.15	2.03	5.9%	2.15	2.03	--	--
Colorado	1.90	1.83	3.8%	1.90	1.83	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	1.95	2.71	W	W
New Mexico	1.79	2.37	-24.0%	1.79	2.37	--	--
Utah	1.96	1.96	0.0%	1.96	1.96	--	--
Wyoming	1.65	1.62	1.9%	1.65	1.62	--	--
Pacific Contiguous	W	W	W	2.30	2.36	W	W
California	--	--	--	--	--	--	--
Oregon	2.30	2.36	-2.5%	2.30	2.36	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.10	3.08	W	W
Alaska	3.10	3.08	0.6%	3.10	3.08	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.13	2.25	-5.3%	2.17	2.27	1.97	2.19

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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 4.11.A. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, June 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015
New England	W	W	W	9.17	17.02	W	W
Connecticut	--	W	W	--	--	--	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	9.56	--	W	W
New Hampshire	9.12	17.02	-46.0%	9.12	17.02	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	11.72	14.59	-20.0%	--	15.42	11.72	14.56
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	15.42	W	W
Pennsylvania	11.68	14.52	-20.0%	--	--	11.68	14.52
East North Central	12.25	15.24	-20.0%	12.11	14.94	12.54	16.06
Illinois	12.93	14.66	-12.0%	12.12	14.64	13.08	14.67
Indiana	11.84	15.15	-22.0%	11.84	15.15	--	--
Michigan	12.15	14.41	-16.0%	12.15	14.41	--	--
Ohio	12.34	15.95	-23.0%	12.78	15.08	12.00	16.54
Wisconsin	11.64	14.92	-22.0%	11.64	14.92	--	--
West North Central	11.42	14.04	-19.0%	11.42	14.04	--	--
Iowa	11.53	13.88	-17.0%	11.53	13.88	--	--
Kansas	11.70	--	--	11.70	--	--	--
Minnesota	11.79	14.10	-16.0%	11.79	14.10	--	--
Missouri	11.56	14.13	-18.0%	11.56	14.13	--	--
Nebraska	11.71	--	--	11.71	--	--	--
North Dakota	10.74	14.10	-24.0%	10.74	14.10	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	12.60	12.87	-2.1%	12.50	12.92	13.06	12.42
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	13.41	W	W	13.41	13.81	--	W
Georgia	11.29	W	W	11.29	13.73	--	W
Maryland	W	11.61	W	--	--	W	11.61
North Carolina	11.40	14.19	-20.0%	11.40	14.19	--	--
South Carolina	12.23	16.08	-24.0%	12.23	16.08	--	--
Virginia	W	W	W	11.36	10.49	W	W
West Virginia	11.75	15.35	-23.0%	11.75	15.35	--	--
East South Central	W	14.20	W	11.46	14.20	W	--
Alabama	W	14.71	W	11.46	14.71	W	--
Kentucky	11.65	14.35	-19.0%	11.65	14.35	--	--
Mississippi	11.45	13.53	-15.0%	11.45	13.53	--	--
Tennessee	11.32	13.91	-19.0%	11.32	13.91	--	--
West South Central	11.76	14.16	-17.0%	11.73	14.18	11.81	13.96
Arkansas	W	W	W	11.54	14.27	W	W
Louisiana	11.33	W	W	11.33	14.19	--	W
Oklahoma	12.41	14.12	-12.0%	12.41	14.12	--	--
Texas	W	W	W	11.81	14.16	W	W
Mountain	W	W	W	12.97	15.31	W	W
Arizona	12.59	15.04	-16.0%	12.59	15.04	--	--
Colorado	12.43	--	--	12.43	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	--	W	--	--	W	--
Nevada	W	W	W	13.32	17.13	W	W
New Mexico	13.59	16.42	-17.0%	13.59	16.42	--	--
Utah	12.65	15.30	-17.0%	12.65	15.30	--	--
Wyoming	12.67	13.98	-9.4%	12.67	13.98	--	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	9.52	13.90	W	W
Alaska	16.10	19.91	-19.0%	16.10	19.91	--	--
Hawaii	W	W	W	9.51	13.86	W	W
U.S. Total	10.40	13.58	-23.0%	10.51	13.66	10.06	13.29

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

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

Table 4.11.B. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) June 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	8.60	W	W	9.59	11.43	7.97	W
Connecticut	8.59	W	W	--	--	8.59	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	14.42	W	9.59	22.01	W	14.31
New Hampshire	9.59	W	W	9.59	10.45	--	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	12.66	W	8.28	9.75	W	14.65
New Jersey	W	17.95	W	--	--	W	17.95
New York	6.47	12.27	-47.0%	8.28	9.75	6.27	14.76
Pennsylvania	W	14.05	W	--	--	W	14.05
East North Central	10.22	14.38	-29.0%	9.84	14.28	10.98	14.65
Illinois	10.35	14.58	-29.0%	9.96	14.82	10.44	14.48
Indiana	9.82	14.43	-32.0%	9.82	14.43	--	--
Michigan	9.81	13.65	-28.0%	9.81	13.65	--	--
Ohio	10.21	14.43	-29.0%	8.97	14.13	11.31	14.69
Wisconsin	13.97	15.56	-10.0%	13.97	15.56	--	--
West North Central	9.58	13.38	-28.0%	9.58	13.38	--	--
Iowa	10.10	13.59	-26.0%	10.10	13.59	--	--
Kansas	9.66	13.05	-26.0%	9.66	13.05	--	--
Minnesota	10.22	14.10	-28.0%	10.22	14.10	--	--
Missouri	9.63	13.47	-29.0%	9.63	13.47	--	--
Nebraska	10.53	--	--	10.53	--	--	--
North Dakota	8.70	13.34	-35.0%	8.70	13.34	--	--
South Dakota	7.54	12.44	-39.0%	7.54	12.44	--	--
South Atlantic	9.09	14.47	-37.0%	9.02	14.13	9.44	15.81
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	10.65	W	W	10.65	15.02	--	W
Georgia	8.61	17.49	-51.0%	8.89	19.70	7.68	14.11
Maryland	8.25	11.67	-29.0%	--	--	8.25	11.67
North Carolina	W	W	W	9.42	14.44	W	W
South Carolina	10.52	15.11	-30.0%	10.52	15.11	--	--
Virginia	W	14.07	W	8.04	12.64	W	19.60
West Virginia	10.57	W	W	10.57	14.93	--	W
East South Central	W	W	W	9.50	13.51	W	W
Alabama	W	W	W	9.06	13.50	W	W
Kentucky	9.79	14.25	-31.0%	9.79	14.25	--	--
Mississippi	8.40	13.35	-37.0%	8.40	13.35	--	--
Tennessee	9.54	12.95	-26.0%	9.54	12.95	--	--
West South Central	9.98	13.81	-28.0%	9.81	13.76	10.60	13.92
Arkansas	W	W	W	9.53	14.41	W	W
Louisiana	W	W	W	9.50	12.67	W	W
Oklahoma	11.84	15.19	-22.0%	11.84	15.19	--	--
Texas	W	W	W	10.23	14.51	W	W
Mountain	W	W	W	10.62	15.48	W	W
Arizona	10.65	14.48	-26.0%	10.65	14.48	--	--
Colorado	9.40	15.24	-38.0%	9.40	15.24	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	11.77	17.36	W	W
New Mexico	10.43	15.84	-34.0%	10.43	15.84	--	--
Utah	10.81	15.31	-29.0%	10.81	15.31	--	--
Wyoming	10.79	15.98	-32.0%	10.79	15.98	--	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	7.50	11.71	W	W
Alaska	12.41	19.91	-38.0%	12.41	19.91	--	--
Hawaii	W	W	W	7.49	11.70	W	W
U.S. Total	8.41	12.76	-34.0%	8.28	12.41	8.87	13.45

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

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

Table 4.12.A. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, June 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	W	W	W	1.35	1.28	W	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.95	--	--	0.95	--	--
Michigan	1.30	1.75	-26.0%	1.30	1.75	--	--
Ohio	W	W	W	--	--	W	W
Wisconsin	1.72	1.68	2.4%	1.72	1.68	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.45	2.54	-43.0%	1.45	2.54	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.45	2.54	-43.0%	1.45	2.54	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	1.72	--	--	1.72	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	1.72	--	--	1.72	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.16	1.63	-29.0%	1.16	1.63	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.16	1.63	-29.0%	1.16	1.63	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	W	W	W	1.33	1.73	W	W

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

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

Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) June 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	W	W	W	1.13	1.39	W	W
Illinois	--	--	--	--	--	--	--
Indiana	0.96	0.93	3.2%	0.96	0.93	--	--
Michigan	1.30	W	W	1.30	1.83	--	W
Ohio	W	W	W	--	--	W	W
Wisconsin	1.71	1.60	6.9%	1.71	1.60	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.25	2.38	-47.0%	1.25	2.38	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.25	2.38	-47.0%	1.25	2.38	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.61	1.74	-7.5%	1.61	1.74	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.61	1.74	-7.5%	1.61	1.74	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.12	1.92	-42.0%	1.12	1.92	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.12	1.92	-42.0%	1.12	1.92	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.33	1.95	-32.0%	1.19	1.89	2.50	2.41

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

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

Table 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State, June 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2016	June 2015	Percentage Change	June 2016	June 2015	June 2016	June 2015
New England	W	W	W	2.97	2.24	W	W
Connecticut	2.27	2.14	6.1%	--	--	2.27	2.14
Maine	W	W	W	--	--	W	W
Massachusetts	2.27	3.10	-27.0%	3.03	2.24	2.27	3.11
New Hampshire	W	W	W	2.90	6.95	W	W
Rhode Island	W	1.91	W	--	--	W	1.91
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.07	2.21	-6.3%	2.13	2.55	2.06	2.17
New Jersey	2.06	2.25	-8.4%	--	--	2.06	2.25
New York	2.31	2.63	-12.0%	2.13	2.55	2.38	2.67
Pennsylvania	1.83	1.76	4.0%	--	--	1.83	1.76
East North Central	2.55	2.72	-6.3%	2.64	2.94	2.47	2.54
Illinois	W	2.99	W	3.07	4.06	W	2.91
Indiana	W	W	W	2.80	2.89	W	W
Michigan	2.65	3.09	-14.0%	2.82	3.40	2.55	3.00
Ohio	2.19	2.07	5.8%	2.23	2.31	2.17	1.98
Wisconsin	W	W	W	2.48	3.19	W	W
West North Central	W	W	W	2.78	3.27	W	W
Iowa	2.47	2.88	-14.0%	2.47	2.88	--	--
Kansas	2.97	3.52	-16.0%	2.97	3.52	--	--
Minnesota	W	W	W	2.88	3.40	W	W
Missouri	W	W	W	2.73	3.31	W	W
Nebraska	3.12	3.36	-7.1%	3.12	3.36	--	--
North Dakota	2.64	2.71	-2.6%	2.64	2.71	--	--
South Dakota	2.38	3.34	-29.0%	2.38	3.34	--	--
South Atlantic	3.15	3.85	-18.0%	3.23	4.00	2.60	2.85
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.37	4.42	-24.0%	3.40	4.46	2.39	2.93
Georgia	2.95	3.27	-9.8%	3.02	3.29	2.68	3.23
Maryland	2.88	2.96	-2.7%	--	--	2.88	2.96
North Carolina	W	W	W	3.55	3.95	W	W
South Carolina	W	W	W	3.25	3.51	W	W
Virginia	W	W	W	2.42	2.78	W	W
West Virginia	1.88	2.33	-19.0%	2.45	2.82	1.85	2.27
East South Central	2.66	3.00	-11.0%	2.63	2.99	2.72	3.00
Alabama	2.81	3.07	-8.5%	2.79	3.11	2.83	3.05
Kentucky	W	W	W	3.03	4.20	W	W
Mississippi	W	W	W	2.58	2.94	W	W
Tennessee	2.35	2.73	-14.0%	2.35	2.73	--	--
West South Central	2.58	2.93	-12.0%	2.66	3.02	2.52	2.86
Arkansas	W	W	W	3.07	3.27	W	W
Louisiana	2.55	W	W	2.54	2.99	2.61	W
Oklahoma	W	W	W	2.72	3.15	W	W
Texas	2.55	2.89	-12.0%	2.64	2.97	2.51	2.86
Mountain	2.69	3.28	-18.0%	2.66	3.28	3.04	3.32
Arizona	W	3.35	W	2.86	3.43	W	3.12
Colorado	W	W	W	2.86	3.21	W	W
Idaho	2.47	2.74	-9.9%	2.47	2.74	--	--
Montana	--	--	--	--	--	--	--
Nevada	2.47	3.28	-25.0%	2.47	3.28	--	--
New Mexico	2.72	3.46	-21.0%	2.72	3.46	--	--
Utah	W	W	W	2.32	2.98	W	W
Wyoming	16.92	4.61	267.0%	16.92	4.61	--	--
Pacific Contiguous	2.74	3.20	-14.0%	2.90	3.41	2.61	3.04
California	2.90	3.40	-15.0%	3.28	3.76	2.66	3.17
Oregon	W	W	W	1.93	2.74	W	W
Washington	W	W	W	2.40	2.98	W	W
Pacific Noncontiguous	7.06	5.11	38.0%	7.06	5.11	--	--
Alaska	7.06	5.11	38.0%	7.06	5.11	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.69	3.13	-14.0%	2.88	3.47	2.42	2.69

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Notes:
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See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

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

Table 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) June 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	June 2016 YTD	June 2015 YTD	Percentage Change	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	3.14	5.85	-46.0%	3.11	5.37	3.14	5.85
Connecticut	3.81	6.04	-37.0%	--	--	3.81	6.04
Maine	W	W	W	--	--	W	W
Massachusetts	2.68	6.00	-55.0%	3.14	5.46	2.68	6.00
New Hampshire	W	W	W	3.00	3.93	W	W
Rhode Island	W	4.78	W	--	--	W	4.78
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.17	3.95	-45.0%	2.62	5.14	2.13	3.82
New Jersey	2.11	4.02	-48.0%	--	--	2.11	4.02
New York	2.56	4.51	-43.0%	2.62	5.14	2.54	4.30
Pennsylvania	1.86	3.32	-44.0%	--	--	1.86	3.32
East North Central	2.27	3.08	-26.0%	2.41	3.22	2.15	2.98
Illinois	2.39	3.40	-30.0%	2.70	4.43	2.35	3.35
Indiana	W	W	W	2.46	3.16	W	W
Michigan	2.34	3.43	-32.0%	2.51	3.46	2.26	3.43
Ohio	1.92	2.53	-24.0%	2.02	2.76	1.88	2.45
Wisconsin	W	W	W	2.47	3.44	W	W
West North Central	W	W	W	2.59	3.72	W	W
Iowa	2.34	3.32	-30.0%	2.34	3.32	--	--
Kansas	3.21	4.01	-20.0%	3.21	4.01	--	--
Minnesota	W	W	W	2.71	4.10	W	W
Missouri	W	W	W	2.45	3.47	W	W
Nebraska	2.84	3.63	-22.0%	2.84	3.63	--	--
North Dakota	2.30	2.79	-18.0%	2.30	2.79	--	--
South Dakota	2.07	3.03	-32.0%	2.07	3.03	--	--
South Atlantic	3.21	4.32	-26.0%	3.33	4.46	2.38	3.25
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	4.45	W	3.61	4.47	W	2.99
Georgia	2.57	3.41	-25.0%	2.60	3.41	2.46	3.39
Maryland	2.92	4.94	-41.0%	--	--	2.92	4.94
North Carolina	W	W	W	3.52	5.36	W	W
South Carolina	W	W	W	3.07	3.75	W	W
Virginia	W	4.32	W	2.74	4.98	W	2.48
West Virginia	W	W	W	1.98	2.97	W	W
East South Central	2.48	3.13	-21.0%	2.51	3.14	2.40	3.11
Alabama	2.49	3.18	-22.0%	2.54	3.18	2.46	3.17
Kentucky	W	W	W	2.81	3.96	W	W
Mississippi	W	W	W	2.51	3.06	W	W
Tennessee	2.24	2.93	-24.0%	2.24	2.93	--	--
West South Central	2.23	2.98	-25.0%	2.33	3.10	2.16	2.89
Arkansas	W	W	W	2.53	3.58	W	W
Louisiana	W	W	W	2.27	3.05	W	W
Oklahoma	W	W	W	2.38	3.17	W	W
Texas	2.21	2.94	-25.0%	2.32	3.05	2.17	2.90
Mountain	W	W	W	2.59	3.47	W	W
Arizona	W	3.59	W	2.71	3.74	W	3.01
Colorado	W	W	W	2.83	4.00	W	W
Idaho	2.50	3.00	-17.0%	2.50	3.00	--	--
Montana	--	--	--	--	--	--	--
Nevada	2.50	3.33	-25.0%	2.50	3.33	--	--
New Mexico	2.54	3.18	-20.0%	2.54	3.18	--	--
Utah	W	W	W	2.25	3.08	W	W
Wyoming	7.04	5.13	37.0%	7.04	5.13	--	--
Pacific Contiguous	2.63	3.35	-21.0%	2.95	3.63	2.35	3.07
California	2.71	3.47	-22.0%	3.13	3.80	2.42	3.17
Oregon	W	W	W	2.06	2.97	W	W
Washington	W	W	W	3.04	3.49	W	W
Pacific Noncontiguous	6.49	5.40	20.0%	6.49	5.40	--	--
Alaska	6.49	5.40	20.0%	6.49	5.40	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.60	3.63	-28.0%	2.85	3.82	2.28	3.39

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Notes:
See Glossary for definitions. Values are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

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

Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, June 2016

	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	25	2.37	8.2	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	4	0.79	8.3	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	20	2.70	8.2	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,333	2.99	10.1	0	--	--	0	--	--
New Jersey	52	1.38	7.8	0	--	--	0	--	--
New York	70	1.91	8.0	0	--	--	0	--	--
Pennsylvania	1,212	3.13	10.3	0	--	--	0	--	--
East North Central	5,880	3.01	10.1	5,740	0.25	4.8	0	--	--
Illinois	893	3.75	20.9	2,223	0.21	4.6	0	--	--
Indiana	2,338	2.93	8.5	182	0.24	4.5	0	--	--
Michigan	202	2.00	7.7	1,694	0.29	4.7	0	--	--
Ohio	2,447	2.97	8.9	15	0.24	5.3	0	--	--
Wisconsin	1	1.28	7.7	1,626	0.25	5.1	0	--	--
West North Central	124	3.22	9.2	7,545	0.26	5.0	1,857	0.83	10.0
Iowa	49	3.40	7.5	1,512	0.26	5.0	0	--	--
Kansas	18	3.00	13.2	1,183	0.29	5.0	0	--	--
Minnesota	0	--	--	760	0.34	5.7	0	--	--
Missouri	57	3.15	9.3	2,873	0.22	4.7	0	--	--
Nebraska	0	--	--	1,053	0.28	5.4	0	--	--
North Dakota	0	--	--	64	0.39	5.4	1,857	0.83	10.0
South Dakota	0	--	--	99	0.32	5.1	0	--	--
South Atlantic	6,488	2.32	10.4	732	0.34	4.7	0	--	--
Delaware	27	2.67	8.0	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,179	2.38	8.0	0	--	--	0	--	--
Georgia	739	2.57	7.4	732	0.34	4.7	0	--	--
Maryland	275	2.28	10.4	0	--	--	0	--	--
North Carolina	829	1.65	10.3	0	--	--	0	--	--
South Carolina	651	1.79	8.5	0	--	--	0	--	--
Virginia	539	1.05	20.1	0	--	--	0	--	--
West Virginia	2,248	2.88	11.3	0	--	--	0	--	--
East South Central	3,668	2.59	8.9	1,610	0.25	5.1	309	0.43	14.0
Alabama	605	1.14	8.6	849	0.24	5.3	0	--	--
Kentucky	2,434	3.02	9.2	504	0.28	5.1	0	--	--
Mississippi	21	2.90	8.3	0	--	--	309	0.43	14.0
Tennessee	608	2.28	7.9	257	0.22	4.5	0	--	--
West South Central	58	1.17	25.0	5,652	0.27	5.2	3,515	0.98	16.7
Arkansas	5	0.69	9.3	1,073	0.26	5.2	0	--	--
Louisiana	0	--	--	299	0.27	5.1	294	0.46	15.1
Oklahoma	53	1.22	26.6	730	0.26	5.0	0	--	--
Texas	0	--	--	3,550	0.28	5.2	3,221	1.03	16.9
Mountain	2,391	0.61	14.4	4,839	0.53	9.5	0	--	--
Arizona	464	0.56	10.6	603	0.57	9.9	0	--	--
Colorado	233	0.46	10.5	1,006	0.36	6.0	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	566	0.73	10.3	0	--	--
Nevada	0	--	--	59	0.24	4.7	0	--	--
New Mexico	594	0.77	24.5	569	0.83	22.5	0	--	--
Utah	1,101	0.58	12.2	80	1.03	9.0	0	--	--
Wyoming	0	--	--	1,955	0.45	7.5	0	--	--
Pacific Contiguous	77	0.50	11.0	195	0.32	6.3	0	--	--
California	77	0.50	11.0	0	--	--	0	--	--
Oregon	0	--	--	110	0.23	4.3	0	--	--
Washington	0	--	--	85	0.43	9.0	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	9	0.16	8.8
Alaska	0	--	--	0	--	--	9	0.16	8.8
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	20,044	2.43	10.5	26,312	0.31	5.8	5,690	0.91	14.4

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Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, June 2016

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	20	2.70	8.2	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	20	2.70	8.2	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	3,257	2.90	8.6	4,217	0.26	4.8	0	--	--
Illinois	219	3.39	11.9	738	0.22	4.7	0	--	--
Indiana	2,202	2.88	8.5	182	0.24	4.5	0	--	--
Michigan	183	2.13	7.9	1,694	0.29	4.7	0	--	--
Ohio	652	3.06	8.5	0	--	--	0	--	--
Wisconsin	1	1.28	7.7	1,604	0.25	5.1	0	--	--
West North Central	75	3.11	10.2	7,480	0.26	5.0	1,857	0.83	10.0
Iowa	0	--	--	1,448	0.26	5.0	0	--	--
Kansas	18	3.00	13.2	1,183	0.29	5.0	0	--	--
Minnesota	0	--	--	760	0.34	5.7	0	--	--
Missouri	57	3.15	9.3	2,873	0.22	4.7	0	--	--
Nebraska	0	--	--	1,053	0.28	5.4	0	--	--
North Dakota	0	--	--	64	0.39	5.4	1,857	0.83	10.0
South Dakota	0	--	--	99	0.32	5.1	0	--	--
South Atlantic	5,820	2.31	10.3	732	0.34	4.7	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,128	2.46	8.0	0	--	--	0	--	--
Georgia	726	2.60	7.4	732	0.34	4.7	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	829	1.65	10.3	0	--	--	0	--	--
South Carolina	644	1.80	8.6	0	--	--	0	--	--
Virginia	488	1.00	21.4	0	--	--	0	--	--
West Virginia	2,006	2.83	10.8	0	--	--	0	--	--
East South Central	3,570	2.64	8.9	1,610	0.25	5.1	0	--	--
Alabama	605	1.14	8.6	849	0.24	5.3	0	--	--
Kentucky	2,434	3.02	9.2	504	0.28	5.1	0	--	--
Mississippi	21	2.90	8.3	0	--	--	0	--	--
Tennessee	509	2.57	8.1	257	0.22	4.5	0	--	--
West South Central	0	--	--	3,667	0.26	5.1	890	1.00	18.0
Arkansas	0	--	--	924	0.26	5.1	0	--	--
Louisiana	0	--	--	201	0.26	5.1	294	0.46	15.1
Oklahoma	0	--	--	676	0.25	5.0	0	--	--
Texas	0	--	--	1,865	0.26	5.2	596	1.31	19.6
Mountain	2,333	0.61	14.5	4,213	0.51	9.5	0	--	--
Arizona	464	0.56	10.6	603	0.57	9.9	0	--	--
Colorado	233	0.46	10.5	1,006	0.36	6.0	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	594	0.77	24.5	569	0.83	22.5	0	--	--
Utah	1,042	0.59	12.3	80	1.03	9.0	0	--	--
Wyoming	0	--	--	1,955	0.45	7.5	0	--	--
Pacific Contiguous	0	--	--	110	0.23	4.3	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	110	0.23	4.3	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	9	0.16	8.8
Alaska	0	--	--	0	--	--	9	0.16	8.8
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	15,076	2.28	10.2	22,030	0.31	5.9	2,756	0.88	12.6

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 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, June 2016

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	3	0.79	8.3	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	3	0.79	8.3	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,300	3.03	10.1	0	--	--	0	--	--
New Jersey	52	1.38	7.8	0	--	--	0	--	--
New York	45	2.31	8.0	0	--	--	0	--	--
Pennsylvania	1,203	3.13	10.3	0	--	--	0	--	--
East North Central	2,528	3.14	12.1	1,452	0.21	4.6	0	--	--
Illinois	592	3.92	27.0	1,437	0.21	4.6	0	--	--
Indiana	136	3.70	9.1	0	--	--	0	--	--
Michigan	19	0.40	5.6	0	--	--	0	--	--
Ohio	1,782	2.95	9.0	15	0.24	5.3	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	600	2.50	11.9	0	--	--	0	--	--
Delaware	27	2.67	8.0	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	52	0.77	8.1	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	259	2.31	9.8	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	23	0.83	8.3	0	--	--	0	--	--
West Virginia	239	3.29	16.1	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	309	0.43	14.0
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	309	0.43	14.0
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	53	1.22	26.6	1,985	0.30	5.2	2,625	0.97	16.3
Arkansas	0	--	--	149	0.24	5.7	0	--	--
Louisiana	0	--	--	97	0.31	5.1	0	--	--
Oklahoma	53	1.22	26.6	55	0.34	5.1	0	--	--
Texas	0	--	--	1,685	0.30	5.2	2,625	0.97	16.3
Mountain	0	--	--	625	0.68	9.8	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	566	0.73	10.3	0	--	--
Nevada	0	--	--	59	0.24	4.7	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	85	0.43	9.0	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	85	0.43	9.0	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	4,484	3.00	11.6	4,147	0.33	5.7	2,934	0.93	16.1

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 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, June 2016

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 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, June 2016

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	1	0.79	8.3	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	1	0.79	8.3	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	33	1.48	8.9	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	25	1.17	7.8	0	--	--	0	--	--
Pennsylvania	8	2.44	12.3	0	--	--	0	--	--
East North Central	95	3.56	8.8	71	0.26	4.6	0	--	--
Illinois	82	3.70	8.5	48	0.25	4.2	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	12	2.71	10.8	0	--	--	0	--	--
Wisconsin	0	--	--	22	0.28	5.4	0	--	--
West North Central	49	3.40	7.5	65	0.18	4.4	0	--	--
Iowa	49	3.40	7.5	65	0.18	4.4	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	68	1.52	12.7	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	13	1.22	9.6	0	--	--	0	--	--
Maryland	16	1.66	21.8	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	8	0.76	6.9	0	--	--	0	--	--
Virginia	28	1.87	11.5	0	--	--	0	--	--
West Virginia	3	0.82	12.8	0	--	--	0	--	--
East South Central	99	0.88	7.0	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	99	0.88	7.0	0	--	--	0	--	--
West South Central	5	0.69	9.3	0	--	--	0	--	--
Arkansas	5	0.69	9.3	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	58	0.47	9.9	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	58	0.47	9.9	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	77	0.50	11.0	0	--	--	0	--	--
California	77	0.50	11.0	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	484	1.62	9.3	135	0.22	4.5	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 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.

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

Table 5.1. Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2006 - June 2016 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2006	1,351,520	1,299,744	1,011,298	7,358	3,669,919
2007	1,392,241	1,336,315	1,027,832	8,173	3,764,561
2008	1,380,662	1,336,133	1,009,516	7,653	3,733,965
2009	1,364,758	1,306,853	917,416	7,768	3,596,795
2010	1,445,708	1,330,199	971,221	7,712	3,754,841
2011	1,422,801	1,328,057	991,316	7,672	3,749,846
2012	1,374,515	1,327,101	985,714	7,320	3,694,650
2013	1,394,812	1,337,079	985,352	7,625	3,724,868
2014	1,407,208	1,352,158	997,576	7,758	3,764,700
2015	1,399,884	1,358,419	958,563	7,659	3,724,525
Year 2014					
January	146,511	113,866	80,149	712	341,238
February	128,475	104,353	75,413	700	308,941
March	114,233	106,968	80,539	648	302,388
April	92,290	102,459	80,505	640	275,894
May	95,727	109,666	85,383	646	291,421
June	118,049	118,423	85,711	609	322,792
July	137,028	125,434	88,417	645	351,524
August	135,830	125,603	89,808	642	351,883
Sept	120,741	120,049	85,489	628	326,907
October	98,038	113,023	84,994	625	296,680
November	99,486	104,245	81,044	637	285,413
December	120,801	108,070	80,123	626	309,620
Year 2015					
January	137,531	110,941	77,242	670	326,384
February	123,777	105,514	74,512	702	304,505
March	116,865	107,786	77,394	682	302,727
April	89,926	103,973	78,056	623	272,578
May	94,863	109,127	80,738	611	285,339
June	119,926	119,112	83,772	612	323,422
July	145,418	128,448	85,400	650	359,916
August	144,091	128,387	85,891	627	358,996
Sept	124,992	122,116	82,342	617	330,068
October	99,076	112,761	80,915	638	293,390
November	92,383	103,942	76,378	606	273,309
December	111,033	106,312	75,923	622	293,890
Year 2016					
January	130,760	110,298	76,248	659	317,965
February	115,913	103,342	74,291	650	294,196
March	100,087	105,335	76,220	613	282,254
April	88,035	101,938	75,805	598	266,376
May	93,867	107,939	78,258	585	280,649
June	124,558	120,181	80,189	633	325,562
Year to Date					
2014	695,285	655,733	487,701	3,955	1,842,674
2015	682,890	656,453	471,714	3,899	1,814,956
2016	653,220	649,033	461,011	3,738	1,767,002
Rolling 12 Months Ending in June					
2015	1,394,813	1,352,878	981,590	7,702	3,736,982
2016	1,370,214	1,350,998	947,861	7,498	3,676,571

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 2014 and prior years are final. Values for 2016 and 2015 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-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, 2006 - June 2016 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2006	140,582	122,914	62,308	702	326,506
2007	148,295	128,903	65,712	792	343,703
2008	155,496	137,036	70,231	820	363,583
2009	157,044	132,747	62,670	828	353,289
2010	166,778	135,554	65,772	814	368,918
2011	166,714	135,927	67,606	803	371,049
2012	163,280	133,898	65,761	747	363,687
2013	169,131	137,188	67,934	805	375,058
2014	176,178	145,253	70,855	810	393,096
2015	177,367	143,893	66,088	779	388,127
Year 2014					
January	17,075	11,790	5,596	78	34,539
February	15,338	11,142	5,370	73	31,922
March	13,996	11,390	5,632	68	31,087
April	11,365	10,715	5,451	65	27,596
May	12,300	11,555	5,833	65	29,753
June	15,337	12,974	6,335	65	34,710
July	17,943	14,014	6,742	69	38,767
August	17,708	13,876	6,748	64	38,396
Sept	15,639	13,399	6,299	69	35,406
October	12,352	12,239	6,007	64	30,663
November	12,417	10,967	5,470	65	28,920
December	14,707	11,192	5,372	66	31,336
Year 2015					
January	16,638	11,387	5,127	71	33,223
February	15,209	11,181	5,146	76	31,611
March	14,427	11,335	5,271	69	31,102
April	11,366	10,735	5,153	61	27,315
May	12,288	11,390	5,418	60	29,157
June	15,511	12,878	5,947	62	34,399
July	18,886	14,155	6,355	68	39,464
August	18,637	13,993	6,294	64	38,988
Sept	16,320	13,357	5,914	64	35,655
October	12,610	12,058	5,557	64	30,288
November	11,759	10,677	5,030	59	27,524
December	13,718	10,747	4,875	61	29,402
Year 2016					
January	15,688	11,006	4,891	62	31,647
February	14,074	10,489	4,743	62	29,367
March	12,582	10,673	4,932	58	28,245
April	10,942	10,281	4,845	56	26,126
May	12,011	11,063	5,115	53	28,242
June	15,860	12,720	5,636	61	34,276
Year to Date					
2014	85,412	69,566	34,217	413	189,608
2015	85,438	68,907	32,063	400	186,807
2016	81,157	66,231	30,161	352	177,902
Rolling 12 Months Ending in June					
2015	176,204	144,594	68,700	797	390,295
2016	173,087	141,218	64,187	731	379,222

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 2014 and prior years are final. Values for 2016 and 2015 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-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, 2006 - June 2016 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2006	10.40	9.46	6.16	9.54	8.90
2007	10.65	9.65	6.39	9.70	9.13
2008	11.26	10.26	6.96	10.71	9.74
2009	11.51	10.16	6.83	10.66	9.82
2010	11.54	10.19	6.77	10.56	9.83
2011	11.72	10.24	6.82	10.46	9.90
2012	11.88	10.09	6.67	10.21	9.84
2013	12.13	10.26	6.89	10.55	10.07
2014	12.52	10.74	7.10	10.45	10.44
2015	12.67	10.59	6.89	10.17	10.42
Year 2014					
January	11.65	10.35	6.98	10.93	10.12
February	11.94	10.68	7.12	10.41	10.33
March	12.25	10.65	6.99	10.43	10.28
April	12.31	10.46	6.77	10.23	10.00
May	12.85	10.54	6.83	10.06	10.21
June	12.99	10.96	7.39	10.60	10.75
July	13.09	11.17	7.62	10.68	11.03
August	13.04	11.05	7.51	10.02	10.91
Sept	12.95	11.16	7.37	11.02	10.83
October	12.60	10.83	7.07	10.27	10.34
November	12.48	10.52	6.75	10.20	10.13
December	12.17	10.36	6.70	10.48	10.12
Year 2015					
January	12.10	10.26	6.64	10.62	10.18
February	12.29	10.60	6.91	10.76	10.38
March	12.34	10.52	6.81	10.18	10.27
April	12.64	10.32	6.60	9.84	10.02
May	12.95	10.44	6.71	9.89	10.22
June	12.93	10.81	7.10	10.22	10.64
July	12.99	11.02	7.44	10.46	10.96
August	12.93	10.90	7.33	10.18	10.86
Sept	13.06	10.94	7.18	10.33	10.80
October	12.73	10.69	6.87	10.00	10.32
November	12.73	10.27	6.59	9.69	10.07
December	12.36	10.11	6.42	9.80	10.00
Year 2016					
January	12.00	9.98	6.41	9.46	9.95
February	12.14	10.15	6.38	9.49	9.98
March	12.57	10.13	6.47	9.43	10.01
April	12.43	10.09	6.39	9.42	9.81
May	12.80	10.25	6.54	9.13	10.06
June	12.73	10.58	7.03	9.58	10.53
Year to Date					
2014	12.28	10.61	7.02	10.45	10.29
2015	12.51	10.50	6.80	10.27	10.29
2016	12.42	10.20	6.54	9.42	10.07
Rolling 12 Months Ending in June					
2015	12.63	10.69	7.00	10.35	10.44
2016	12.63	10.45	6.77	9.75	10.31

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

Table 5.4.A. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, June 2016 and 2015 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	3,561	3,495	4,490	4,488	1,456	1,587	45	44	9,553	9,613
Connecticut	1,007	945	1,126	1,104	283	311	17	15	2,433	2,375
Maine	337	326	333	326	239	276	0	0	909	928
Massachusetts	1,493	1,508	2,182	2,161	588	635	26	27	4,289	4,331
New Hampshire	327	333	369	402	171	173	0	0	866	907
Rhode Island	244	239	310	330	65	70	2	2	622	641
Vermont	152	145	171	165	110	120	0	0	433	430
Middle Atlantic	10,784	10,840	13,326	13,348	5,993	6,525	333	312	30,436	31,025
New Jersey	2,626	2,679	3,241	3,302	585	608	24	25	6,476	6,614
New York	4,076	3,997	6,452	6,434	1,447	1,887	226	220	12,201	12,538
Pennsylvania	4,082	4,165	3,632	3,612	3,961	4,030	83	66	11,758	11,873
East North Central	16,355	14,682	16,286	15,745	15,551	16,320	45	44	48,238	46,792
Illinois	4,454	3,780	4,472	4,293	3,452	3,536	40	40	12,417	11,649
Indiana	2,807	2,605	2,132	2,107	3,480	3,861	2	2	8,421	8,574
Michigan	2,951	2,535	3,430	3,312	2,628	2,634	0	0	9,008	8,482
Ohio	4,362	4,198	4,159	4,012	3,937	4,286	3	3	12,461	12,498
Wisconsin	1,781	1,565	2,094	2,022	2,055	2,002	0	0	5,930	5,589
West North Central	9,346	8,362	9,064	8,770	7,196	7,430	3	3	25,609	24,566
Iowa	1,268	1,047	1,078	996	1,808	1,873	0	0	4,154	3,916
Kansas	1,500	1,361	1,467	1,405	913	956	0	0	3,880	3,722
Minnesota	1,772	1,670	1,998	1,972	1,656	1,602	2	2	5,428	5,246
Missouri	3,274	2,942	2,815	2,731	1,011	1,351	1	1	7,102	7,025
Nebraska	877	735	834	813	1,003	885	0	0	2,713	2,433
North Dakota	295	290	465	464	584	541	0	0	1,345	1,295
South Dakota	359	317	408	390	220	223	0	0	987	929
South Atlantic	32,668	32,508	27,929	28,144	11,640	12,501	105	106	72,342	73,259
Delaware	373	398	375	384	178	165	0	0	927	946
District of Columbia	257	241	750	742	10	7	23	25	1,040	1,015
Florida	11,721	11,469	8,686	8,537	1,441	1,475	9	8	21,857	21,488
Georgia	5,453	5,296	4,297	4,261	2,720	2,776	15	14	12,484	12,348
Maryland	2,195	2,110	2,587	2,679	318	321	41	41	5,141	5,150
North Carolina	5,284	5,275	4,374	4,411	2,319	2,474	1	1	11,977	12,161
South Carolina	2,903	2,878	2,034	2,078	2,224	2,614	0	0	7,160	7,569
Virginia	3,667	3,981	4,173	4,356	1,397	1,571	17	16	9,253	9,925
West Virginia	815	861	653	697	1,034	1,099	0	0	2,502	2,658
East South Central	10,351	10,161	8,167	7,968	8,282	8,812	0	0	26,799	26,941
Alabama	3,014	2,990	2,114	2,080	2,861	2,998	0	0	7,988	8,068
Kentucky	2,263	2,201	1,722	1,673	2,255	2,569	0	0	6,239	6,443
Mississippi	1,628	1,569	1,246	1,221	1,376	1,381	0	0	4,250	4,171
Tennessee	3,447	3,401	3,085	2,994	1,791	1,864	0	0	8,323	8,259
West South Central	19,870	19,243	18,064	17,851	14,456	14,636	16	16	52,405	51,746
Arkansas	1,440	1,439	1,064	1,061	1,335	1,391	0	0	3,838	3,890
Louisiana	2,775	2,784	2,209	2,202	2,916	2,770	1	1	7,901	7,757
Oklahoma	2,326	2,205	1,974	1,968	1,475	1,460	0	0	5,776	5,633
Texas	13,328	12,815	12,818	12,621	8,730	9,015	15	15	34,891	34,466
Mountain	10,065	9,384	8,637	8,408	7,582	7,654	11	11	26,294	25,457
Arizona	4,032	3,759	2,861	2,765	1,313	1,252	0	1	8,207	7,777
Colorado	1,711	1,553	1,760	1,657	1,304	1,307	5	5	4,779	4,523
Idaho	615	647	542	541	1,141	1,127	0	0	2,299	2,316
Montana	350	335	411	414	361	391	0	0	1,122	1,140
Nevada	1,630	1,461	884	866	1,206	1,260	1	1	3,721	3,588
New Mexico	614	573	828	809	653	639	0	0	2,095	2,020
Utah	926	861	1,048	1,021	766	835	5	5	2,744	2,721
Wyoming	188	193	302	335	837	842	0	0	1,327	1,371
Pacific Contiguous	11,206	10,906	13,749	13,909	7,618	7,902	76	76	32,649	32,793
California	7,573	7,192	9,993	9,942	4,504	4,694	73	73	22,143	21,902
Oregon	1,336	1,371	1,366	1,440	1,040	1,104	2	2	3,744	3,917
Washington	2,298	2,343	2,389	2,527	2,074	2,104	0	0	6,761	6,974
Pacific Noncontiguous	353	344	470	480	415	406	0	0	1,237	1,230
Alaska	140	137	216	216	108	106	0	0	464	459
Hawaii	213	207	254	264	306	300	0	0	774	771
U.S. Total	124,558	119,926	120,181	119,112	80,189	83,772	633	612	325,562	323,422

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
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Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.4.B. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through June 2016 and 2015 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	22,025	23,833	25,309	25,930	8,422	8,920	279	302	56,034	58,985
Connecticut	6,004	6,555	6,151	6,352	1,570	1,626	90	101	13,815	14,634
Maine	2,308	2,351	1,964	1,905	1,437	1,621	0	0	5,708	5,876
Massachusetts	9,132	10,021	12,304	12,660	3,369	3,630	175	186	24,980	26,497
New Hampshire	2,154	2,325	2,159	2,223	966	951	0	0	5,280	5,498
Rhode Island	1,411	1,503	1,750	1,798	378	398	14	15	3,553	3,714
Vermont	1,016	1,078	981	992	701	695	0	0	2,697	2,765
Middle Atlantic	61,542	67,311	75,780	77,857	34,870	35,651	1,901	1,974	174,093	182,794
New Jersey	12,740	13,815	18,325	18,923	3,393	3,555	152	156	34,610	36,448
New York	23,049	24,644	36,352	37,174	8,451	8,598	1,364	1,430	69,215	71,846
Pennsylvania	25,753	28,853	21,103	21,760	23,026	23,499	385	388	70,268	74,500
East North Central	88,157	91,769	89,387	90,395	91,710	94,547	289	310	269,542	277,020
Illinois	21,295	21,796	24,519	24,770	20,501	21,016	252	273	66,567	67,855
Indiana	15,554	16,610	11,595	11,868	21,100	22,507	11	11	48,259	50,996
Michigan	16,081	16,286	18,766	18,947	15,147	15,083	2	2	49,995	50,318
Ohio	24,803	26,719	22,929	23,267	23,343	24,294	23	24	71,098	74,303
Wisconsin	10,425	10,357	11,578	11,544	11,620	11,648	0	0	33,623	33,549
West North Central	49,192	50,413	49,405	49,810	41,077	43,158	23	24	139,697	143,406
Iowa	6,811	6,773	5,941	5,907	10,526	10,422	0	0	23,278	23,102
Kansas	6,114	6,283	7,388	7,436	5,229	5,338	0	0	18,732	19,057
Minnesota	10,544	10,688	11,314	11,458	9,604	10,226	12	13	31,474	32,385
Missouri	16,253	17,087	14,786	15,013	5,977	7,784	11	11	37,026	39,895
Nebraska	4,738	4,668	4,599	4,586	4,875	4,808	0	0	14,212	14,061
North Dakota	2,404	2,573	3,015	3,058	3,589	3,295	0	0	9,007	8,926
South Dakota	2,329	2,341	2,362	2,353	1,277	1,286	0	0	5,968	5,980
South Atlantic	167,729	177,896	148,862	150,650	67,904	70,651	671	689	385,166	399,886
Delaware	2,230	2,551	2,072	2,080	964	1,151	0	0	5,266	5,782
District of Columbia	1,159	1,284	4,135	4,087	87	157	163	174	5,544	5,701
Florida	55,375	56,562	44,916	45,093	8,134	8,281	48	47	108,473	109,983
Georgia	26,519	27,742	22,626	22,743	15,740	15,760	85	86	64,970	66,331
Maryland	13,172	14,645	14,211	14,787	1,829	1,855	279	276	29,491	31,563
North Carolina	27,622	29,411	22,998	23,270	13,108	13,522	3	5	63,731	66,208
South Carolina	14,306	14,982	10,481	10,547	13,134	14,551	0	0	37,921	40,080
Virginia	21,569	24,331	23,605	24,082	8,525	8,733	93	102	53,793	57,247
West Virginia	5,776	6,387	3,818	3,961	6,383	6,642	0	0	15,977	16,990
East South Central	55,634	60,214	42,657	42,884	48,620	51,211	0	0	146,912	154,309
Alabama	14,925	15,949	10,836	10,930	16,321	16,964	0	0	42,081	43,843
Kentucky	12,720	13,860	9,151	9,219	13,671	15,227	0	0	35,541	38,305
Mississippi	8,319	8,917	6,414	6,467	8,138	7,995	0	0	22,872	23,380
Tennessee	19,671	21,489	16,256	16,268	10,490	11,025	0	0	46,418	48,781
West South Central	94,415	99,974	92,400	93,505	84,395	80,967	91	91	271,300	274,536
Arkansas	8,057	8,959	5,559	5,676	7,681	7,663	0	0	21,298	22,298
Louisiana	13,460	14,683	11,503	11,740	16,575	15,595	6	6	41,544	42,023
Oklahoma	10,331	10,819	9,572	9,602	8,338	8,341	0	0	28,241	28,763
Texas	62,567	65,513	65,766	66,487	51,800	49,368	85	85	180,218	181,452
Mountain	44,689	42,953	45,309	44,925	40,549	40,930	66	66	130,614	128,874
Arizona	14,847	14,094	13,950	13,792	7,428	6,891	3	3	36,228	34,781
Colorado	8,956	8,622	9,792	9,634	7,403	7,436	32	32	26,183	25,723
Idaho	4,041	3,959	3,047	3,020	3,932	4,204	0	0	11,021	11,182
Montana	2,475	2,470	2,428	2,441	2,078	2,106	0	0	6,981	7,017
Nevada	5,527	5,239	4,499	4,487	6,669	6,774	4	4	16,699	16,504
New Mexico	3,148	3,108	4,235	4,227	3,636	3,582	0	0	11,019	10,917
Utah	4,266	4,056	5,528	5,327	4,475	4,816	27	28	14,295	14,226
Wyoming	1,429	1,405	1,831	1,998	4,927	5,122	0	0	8,187	8,524
Pacific Contiguous	67,595	66,279	77,036	77,584	41,009	43,298	419	443	186,058	187,604
California	40,208	39,275	54,640	55,021	23,412	24,371	404	429	118,664	119,096
Oregon	9,479	9,173	7,897	7,864	5,542	5,990	12	12	22,930	23,038
Washington	17,908	17,831	14,499	14,699	12,054	12,936	3	2	44,464	45,469
Pacific Noncontiguous	2,242	2,248	2,887	2,912	2,457	2,382	0	0	7,586	7,543
Alaska	1,012	1,043	1,379	1,398	671	657	0	0	3,062	3,098
Hawaii	1,230	1,205	1,508	1,515	1,786	1,726	0	0	4,524	4,445
U.S. Total	653,220	682,890	649,033	656,453	461,011	471,714	3,738	3,899	1,767,002	1,814,956

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, June 2016 and 2015 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	673	690	675	671	172	188	3	4	1,524	1,553
Connecticut	211	213	180	175	36	40	2	2	429	430
Maine	54	51	39	40	20	23	0	0	113	115
Massachusetts	276	294	335	326	76	83	1	2	688	705
New Hampshire	59	62	52	59	20	21	0	0	131	142
Rhode Island	46	44	45	47	9	9	0	0	100	99
Vermont	27	25	25	24	11	12	0	0	63	62
Middle Atlantic	1,723	1,792	1,742	1,823	430	471	36	38	3,931	4,124
New Jersey	421	440	434	458	62	67	2	3	920	968
New York	729	751	976	1,016	97	115	28	30	1,831	1,911
Pennsylvania	573	601	331	350	270	289	6	5	1,180	1,244
East North Central	2,128	1,932	1,608	1,584	1,076	1,135	3	3	4,815	4,654
Illinois	546	476	390	380	219	216	3	3	1,157	1,074
Indiana	318	298	204	203	241	258	0	0	763	759
Michigan	454	373	366	360	184	196	0	0	1,003	929
Ohio	544	548	409	406	265	300	0	0	1,218	1,255
Wisconsin	266	238	240	234	168	165	0	0	674	638
West North Central	1,192	1,065	930	893	559	556	0	0	2,681	2,514
Iowa	172	141	115	102	137	131	0	0	424	374
Kansas	200	173	155	145	69	72	0	0	424	390
Minnesota	227	218	197	205	125	124	0	0	549	547
Missouri	412	373	300	284	82	98	0	0	794	756
Nebraska	104	89	80	77	79	68	0	0	263	234
North Dakota	34	34	43	44	50	47	0	0	127	124
South Dakota	43	37	40	35	17	16	0	0	100	88
South Atlantic	3,868	3,896	2,610	2,668	774	799	8	8	7,261	7,372
Delaware	51	56	37	40	14	15	0	0	102	111
District of Columbia	33	31	87	92	1	1	2	3	123	126
Florida	1,299	1,343	775	817	112	123	1	1	2,187	2,284
Georgia	668	650	427	407	168	132	1	0	1,264	1,189
Maryland	321	310	286	294	24	27	3	4	634	635
North Carolina	588	586	377	384	149	163	0	0	1,114	1,132
South Carolina	368	360	215	216	142	161	0	0	725	737
Virginia	449	470	346	359	95	108	1	1	891	938
West Virginia	91	90	60	60	68	69	0	0	219	219
East South Central	1,131	1,120	829	827	502	570	0	0	2,462	2,517
Alabama	366	359	236	232	185	206	0	0	788	797
Kentucky	234	221	163	153	129	139	0	0	525	512
Mississippi	173	185	119	133	83	98	0	0	375	415
Tennessee	358	355	312	310	104	127	0	0	773	792
West South Central	2,109	2,153	1,423	1,428	756	819	1	1	4,289	4,401
Arkansas	148	149	90	91	85	90	0	0	324	330
Louisiana	249	258	179	183	129	145	0	0	557	586
Oklahoma	232	227	154	158	77	83	0	0	463	468
Texas	1,479	1,519	999	995	465	502	1	1	2,944	3,017
Mountain	1,213	1,163	875	861	515	536	1	1	2,603	2,561
Arizona	505	479	321	315	84	85	0	0	910	879
Colorado	215	193	180	160	97	94	1	1	492	448
Idaho	62	65	45	44	87	85	0	0	195	195
Montana	40	39	43	43	19	22	0	0	103	104
Nevada	186	192	70	81	72	92	0	0	328	365
New Mexico	75	75	84	89	40	44	0	0	199	209
Utah	107	98	103	97	57	57	0	0	267	252
Wyoming	22	22	29	31	58	56	0	0	110	109
Pacific Contiguous	1,736	1,608	1,924	2,014	771	787	7	6	4,438	4,414
California	1,371	1,238	1,605	1,682	613	623	7	6	3,596	3,549
Oregon	144	150	120	127	66	69	0	0	330	346
Washington	220	220	199	205	92	94	0	0	512	519
Pacific Noncontiguous	88	92	103	110	81	87	0	0	272	289
Alaska	30	29	40	39	17	17	0	0	87	85
Hawaii	59	63	63	71	64	70	0	0	185	204
U.S. Total	15,860	15,511	12,720	12,878	5,636	5,947	61	62	34,276	34,399

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through June 2016 and 2015 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	4,223	4,856	3,834	4,171	1,010	1,115	24	34	9,091	10,176
Connecticut	1,248	1,446	976	1,061	205	218	10	16	2,439	2,740
Maine	358	371	236	259	125	156	0	0	719	787
Massachusetts	1,783	2,117	1,901	2,051	438	488	12	16	4,134	4,672
New Hampshire	395	450	313	348	119	124	0	0	827	922
Rhode Island	264	290	267	308	52	59	3	3	585	659
Vermont	175	182	142	144	70	70	0	0	387	396
Middle Atlantic	9,573	10,704	9,243	10,166	2,452	2,694	205	234	21,473	23,798
New Jersey	1,988	2,177	2,251	2,444	342	395	13	16	4,594	5,033
New York	3,958	4,647	5,006	5,606	507	569	162	187	9,634	11,008
Pennsylvania	3,627	3,880	1,985	2,116	1,602	1,730	30	31	7,245	7,757
East North Central	11,331	11,600	8,720	8,892	6,225	6,445	20	23	26,296	26,961
Illinois	2,619	2,691	2,121	2,195	1,294	1,325	17	19	6,050	6,231
Indiana	1,727	1,835	1,103	1,145	1,431	1,511	1	1	4,262	4,492
Michigan	2,407	2,279	1,970	1,990	1,041	1,070	0	0	5,420	5,339
Ohio	3,079	3,317	2,256	2,296	1,569	1,642	2	3	6,905	7,257
Wisconsin	1,498	1,479	1,270	1,265	891	897	0	0	3,658	3,642
West North Central	5,599	5,568	4,584	4,502	2,822	2,887	2	2	13,006	12,959
Iowa	801	773	536	517	604	596	0	0	1,941	1,886
Kansas	793	768	762	742	390	395	0	0	1,945	1,906
Minnesota	1,310	1,285	1,095	1,075	686	713	1	1	3,093	3,075
Missouri	1,705	1,775	1,297	1,295	389	460	1	1	3,392	3,531
Nebraska	496	478	404	401	369	356	0	0	1,269	1,236
North Dakota	237	241	271	264	289	274	0	0	797	778
South Dakota	257	248	218	206	95	93	0	0	570	547
South Atlantic	19,420	20,663	13,876	14,391	4,246	4,565	53	58	37,594	39,677
Delaware	301	337	214	215	78	98	0	0	594	651
District of Columbia	152	162	488	495	8	14	15	16	663	687
Florida	6,196	6,655	4,125	4,407	628	688	4	4	10,952	11,753
Georgia	2,964	3,092	2,171	2,200	845	865	4	4	5,985	6,161
Maryland	1,884	1,975	1,565	1,662	145	167	22	24	3,616	3,829
North Carolina	3,065	3,258	1,974	2,002	786	849	0	0	5,826	6,110
South Carolina	1,767	1,844	1,052	1,065	763	865	0	0	3,581	3,775
Virginia	2,458	2,726	1,932	2,012	576	616	7	9	4,972	5,363
West Virginia	633	613	357	332	416	402	0	0	1,405	1,347
East South Central	5,908	6,428	4,260	4,416	2,723	3,004	0	0	12,890	13,847
Alabama	1,766	1,861	1,192	1,202	948	1,021	0	0	3,906	4,084
Kentucky	1,282	1,366	856	853	730	801	0	0	2,867	3,020
Mississippi	888	1,023	618	709	464	525	0	0	1,970	2,257
Tennessee	1,972	2,177	1,594	1,652	581	657	0	0	4,147	4,487
West South Central	9,941	10,981	7,111	7,450	4,258	4,539	5	5	21,315	22,975
Arkansas	776	848	449	459	435	451	0	0	1,660	1,758
Louisiana	1,197	1,332	973	1,018	797	841	1	0	2,968	3,192
Oklahoma	1,016	1,066	680	705	385	434	0	0	2,081	2,205
Texas	6,952	7,735	5,009	5,268	2,641	2,812	5	5	14,607	15,820
Mountain	5,130	5,054	4,253	4,344	2,458	2,626	6	7	11,847	12,031
Arizona	1,791	1,701	1,440	1,414	425	432	0	0	3,657	3,547
Colorado	1,039	1,023	906	933	506	521	3	3	2,454	2,480
Idaho	397	393	236	238	256	276	0	0	889	907
Montana	269	268	246	253	101	110	0	0	615	631
Nevada	651	695	368	427	342	421	0	0	1,361	1,544
New Mexico	363	387	401	437	207	225	0	0	971	1,050
Utah	464	435	484	461	279	293	3	3	1,229	1,192
Wyoming	156	151	172	181	341	348	0	0	670	680
Pacific Contiguous	9,496	9,004	9,741	9,910	3,509	3,678	37	37	22,782	22,630
California	6,839	6,484	7,831	8,035	2,644	2,757	35	36	17,350	17,312
Oregon	993	970	697	695	331	357	1	1	2,022	2,023
Washington	1,664	1,550	1,212	1,180	534	564	0	0	3,410	3,295
Pacific Noncontiguous	538	579	610	667	459	508	0	0	1,608	1,754
Alaska	205	207	249	246	102	97	0	0	555	550
Hawaii	333	373	362	421	358	411	0	0	1,052	1,204
U.S. Total	81,157	85,438	66,231	68,907	30,161	32,063	352	400	177,902	186,807

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, June 2016 and 2015 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	18.90	19.75	15.04	14.95	11.84	11.84	7.73	9.94	15.95	16.16
Connecticut	20.96	22.58	16.01	15.88	12.70	12.79	9.53	11.02	17.63	18.11
Maine	16.03	15.73	11.64	12.38	8.52	8.34	--	--	12.45	12.35
Massachusetts	18.51	19.52	15.33	15.07	12.88	13.05	5.58	8.67	16.04	16.29
New Hampshire	18.13	18.70	14.03	14.62	11.93	12.22	--	--	15.16	15.66
Rhode Island	18.69	18.31	14.47	14.10	13.29	12.42	18.74	17.54	16.02	15.50
Vermont	17.57	17.38	14.58	14.75	10.23	10.16	--	--	14.52	14.36
Middle Atlantic	15.98	16.53	13.07	13.66	7.18	7.21	10.95	12.12	12.92	13.29
New Jersey	16.05	16.44	13.40	13.86	10.68	11.09	8.47	10.44	14.21	14.64
New York	17.89	18.79	15.12	15.79	6.73	6.08	12.54	13.70	15.00	15.25
Pennsylvania	14.03	14.42	9.12	9.68	6.82	7.16	7.32	7.52	10.04	10.48
East North Central	13.01	13.16	9.88	10.06	6.92	6.96	6.97	7.37	9.98	9.95
Illinois	12.25	12.59	8.72	8.85	6.34	6.10	6.74	6.86	9.32	9.22
Indiana	11.33	11.43	9.56	9.63	6.92	6.69	9.40	9.92	9.06	8.85
Michigan	15.38	14.70	10.66	10.88	6.99	7.42	12.10	11.08	11.14	10.95
Ohio	12.47	13.05	9.83	10.12	6.73	7.01	8.13	12.55	9.77	10.04
Wisconsin	14.95	15.22	11.48	11.58	8.15	8.25	14.38	--	11.37	11.41
West North Central	12.75	12.73	10.26	10.18	7.77	7.48	10.99	10.77	10.47	10.23
Iowa	13.56	13.46	10.68	10.22	7.56	7.02	--	--	10.20	9.56
Kansas	13.30	12.72	10.58	10.32	7.60	7.53	--	--	10.93	10.48
Minnesota	12.80	13.08	9.87	10.40	7.55	7.71	10.61	10.11	10.12	10.43
Missouri	12.59	12.68	10.66	10.42	8.07	7.24	11.49	11.61	11.18	10.76
Nebraska	11.90	12.06	9.56	9.49	7.87	7.68	--	--	9.69	9.61
North Dakota	11.39	11.62	9.30	9.52	8.59	8.61	--	--	9.45	9.61
South Dakota	11.97	11.63	9.70	8.99	7.76	7.39	--	--	10.10	9.51
South Atlantic	11.84	11.99	9.35	9.48	6.65	6.39	7.98	7.98	10.04	10.06
Delaware	13.60	14.02	9.99	10.47	7.94	9.18	--	--	11.05	11.74
District of Columbia	12.85	12.78	11.58	12.37	10.40	11.31	10.22	9.91	11.85	12.40
Florida	11.08	11.71	8.92	9.57	7.79	8.35	7.92	8.59	10.01	10.63
Georgia	12.25	12.28	9.93	9.54	6.19	4.77	5.68	1.80	10.12	9.63
Maryland	14.61	14.68	11.05	10.98	7.64	8.49	7.62	8.76	12.33	12.32
North Carolina	11.13	11.11	8.63	8.69	6.43	6.57	7.59	7.88	9.31	9.31
South Carolina	12.68	12.52	10.58	10.41	6.39	6.15	--	--	10.13	9.74
Virginia	12.24	11.81	8.29	8.24	6.82	6.86	7.87	8.21	9.63	9.46
West Virginia	11.16	10.47	9.20	8.60	6.56	6.31	--	--	8.74	8.26
East South Central	10.93	11.02	10.15	10.38	6.06	6.47	--	--	9.19	9.34
Alabama	12.16	12.01	11.16	11.15	6.48	6.89	--	--	9.86	9.88
Kentucky	10.33	10.05	9.47	9.12	5.71	5.39	--	--	8.42	7.95
Mississippi	10.64	11.78	9.52	10.86	6.07	7.10	--	--	8.83	9.96
Tennessee	10.37	10.43	10.10	10.36	5.81	6.81	--	--	9.29	9.59
West South Central	10.61	11.19	7.88	8.00	5.23	5.60	5.63	5.56	8.18	8.50
Arkansas	10.31	10.36	8.47	8.59	6.41	6.45	10.98	10.05	8.44	8.48
Louisiana	8.96	9.27	8.11	8.33	4.42	5.23	9.07	8.90	7.05	7.56
Oklahoma	9.99	10.29	7.80	8.02	5.20	5.67	--	--	8.02	8.30
Texas	11.10	11.85	7.80	7.89	5.33	5.56	5.37	5.34	8.44	8.75
Mountain	12.05	12.39	10.13	10.24	6.79	7.00	9.77	10.29	9.90	10.06
Arizona	12.54	12.74	11.20	11.38	6.40	6.83	9.92	9.96	11.09	11.30
Colorado	12.56	12.46	10.25	9.67	7.41	7.21	9.92	10.67	10.30	9.92
Idaho	10.12	10.04	8.30	8.21	7.66	7.56	--	--	8.47	8.41
Montana	11.58	11.58	10.50	10.41	5.25	5.57	--	--	9.15	9.09
Nevada	11.40	13.13	7.92	9.36	5.98	7.27	7.81	9.39	8.82	10.16
New Mexico	12.22	13.13	10.12	11.02	6.18	6.93	--	--	9.51	10.32
Utah	11.51	11.34	9.78	9.49	7.45	6.84	9.90	10.06	9.71	9.26
Wyoming	11.81	11.40	9.76	9.36	6.97	6.64	--	--	8.29	7.98
Pacific Contiguous	15.49	14.74	14.00	14.48	10.12	9.96	9.22	8.26	13.59	13.46
California	18.11	17.21	16.06	16.91	13.61	13.28	9.22	8.24	16.24	16.20
Oregon	10.78	10.95	8.79	8.81	6.32	6.25	9.31	9.23	8.82	8.84
Washington	9.58	9.39	8.34	8.11	4.46	4.49	8.27	8.40	7.57	7.45
Pacific Noncontiguous	25.04	26.69	21.91	22.97	19.44	21.47	--	--	21.97	23.51
Alaska	21.30	21.07	18.63	18.01	15.69	16.42	--	--	18.75	18.56
Hawaii	27.50	30.39	24.69	27.02	20.75	23.25	--	--	23.90	26.46
U.S. Total	12.73	12.93	10.58	10.81	7.03	7.10	9.58	10.22	10.53	10.64

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Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through June 2016 and 2015 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD	June 2016 YTD	June 2015 YTD
New England	19.17	20.37	15.15	16.08	12.00	12.50	8.60	11.41	16.22	17.25
Connecticut	20.79	22.06	15.86	16.71	13.07	13.38	11.08	15.74	17.65	18.73
Maine	15.52	15.80	12.02	13.61	8.71	9.65	--	--	12.60	13.39
Massachusetts	19.52	21.12	15.45	16.20	13.01	13.43	6.56	8.57	16.55	17.63
New Hampshire	18.35	19.35	14.48	15.65	12.36	13.05	--	--	15.67	16.77
Rhode Island	18.73	19.26	15.23	17.10	13.63	14.88	18.43	17.66	16.46	17.74
Vermont	17.19	16.89	14.46	14.48	10.04	10.12	--	--	14.34	14.32
Middle Atlantic	15.56	15.90	12.20	13.06	7.03	7.56	10.81	11.86	12.33	13.02
New Jersey	15.60	15.76	12.29	12.92	10.07	11.12	8.75	10.46	13.27	13.81
New York	17.17	18.86	13.77	15.08	6.00	6.61	11.89	13.06	13.92	15.32
Pennsylvania	14.09	13.45	9.41	9.72	6.96	7.36	7.78	8.00	10.31	10.41
East North Central	12.85	12.64	9.76	9.84	6.79	6.82	6.99	7.54	9.76	9.73
Illinois	12.30	12.34	8.65	8.86	6.31	6.31	6.78	7.00	9.09	9.18
Indiana	11.10	11.05	9.51	9.65	6.78	6.71	9.60	10.11	8.83	8.81
Michigan	14.97	13.99	10.50	10.50	6.88	7.09	11.49	11.37	10.84	10.61
Ohio	12.41	12.41	9.84	9.87	6.72	6.76	7.61	12.21	9.71	9.77
Wisconsin	14.37	14.28	10.96	10.96	7.66	7.70	14.59	--	10.88	10.86
West North Central	11.38	11.05	9.28	9.04	6.87	6.69	8.78	8.46	9.31	9.04
Iowa	11.77	11.41	9.02	8.76	5.74	5.72	--	--	8.34	8.16
Kansas	12.97	12.22	10.32	9.98	7.46	7.41	--	--	10.38	10.00
Minnesota	12.43	12.03	9.68	9.39	7.14	6.97	10.00	9.41	9.83	9.50
Missouri	10.49	10.39	8.77	8.63	6.50	5.91	7.39	7.36	9.16	8.85
Nebraska	10.46	10.24	8.79	8.75	7.56	7.41	--	--	8.93	8.79
North Dakota	9.87	9.36	8.99	8.62	8.05	8.32	--	--	8.85	8.72
South Dakota	11.02	10.59	9.23	8.77	7.44	7.20	--	--	9.55	9.14
South Atlantic	11.58	11.62	9.32	9.55	6.25	6.46	7.84	8.34	9.76	9.92
Delaware	13.52	13.23	10.32	10.34	8.14	8.55	--	--	11.28	11.26
District of Columbia	13.11	12.63	11.79	12.12	9.28	8.72	9.43	9.34	11.96	12.05
Florida	11.19	11.76	9.18	9.77	7.72	8.30	8.35	8.95	10.10	10.69
Georgia	11.18	11.15	9.60	9.67	5.37	5.49	4.67	4.53	9.21	9.29
Maryland	14.30	13.49	11.01	11.24	7.95	9.02	7.78	8.80	12.26	12.13
North Carolina	11.10	11.08	8.58	8.60	6.00	6.28	7.87	7.88	9.14	9.23
South Carolina	12.35	12.31	10.03	10.10	5.81	5.95	--	--	9.44	9.42
Virginia	11.39	11.21	8.18	8.35	6.75	7.06	7.89	8.37	9.24	9.37
West Virginia	10.96	9.60	9.34	8.39	6.52	6.05	--	--	8.80	7.93
East South Central	10.62	10.67	9.99	10.30	5.60	5.87	--	--	8.77	8.97
Alabama	11.83	11.67	11.00	10.99	5.81	6.02	--	--	9.28	9.31
Kentucky	10.08	9.85	9.35	9.25	5.34	5.26	--	--	8.07	7.88
Mississippi	10.67	11.48	9.64	10.96	5.70	6.57	--	--	8.61	9.65
Tennessee	10.02	10.13	9.80	10.16	5.54	5.96	--	--	8.93	9.20
West South Central	10.53	10.98	7.70	7.97	5.05	5.61	5.65	5.55	7.86	8.37
Arkansas	9.63	9.46	8.08	8.09	5.66	5.89	9.21	10.83	7.79	7.88
Louisiana	8.89	9.07	8.46	8.67	4.81	5.40	8.97	8.47	7.14	7.60
Oklahoma	9.84	9.85	7.10	7.34	4.61	5.21	--	--	7.37	7.67
Texas	11.11	11.81	7.62	7.92	5.10	5.70	5.41	5.34	8.11	8.72
Mountain	11.48	11.77	9.39	9.67	6.06	6.42	9.48	9.98	9.07	9.34
Arizona	12.06	12.07	10.33	10.25	5.72	6.27	8.80	8.63	10.09	10.20
Colorado	11.60	11.87	9.26	9.68	6.84	7.00	9.34	10.19	9.37	9.64
Idaho	9.82	9.93	7.74	7.87	6.51	6.56	--	--	8.07	8.11
Montana	10.86	10.85	10.13	10.36	4.84	5.21	--	--	8.81	8.99
Nevada	11.78	13.26	8.17	9.52	5.13	6.22	7.64	8.92	8.15	9.35
New Mexico	11.54	12.46	9.46	10.35	5.70	6.29	--	--	8.81	9.62
Utah	10.87	10.73	8.75	8.65	6.24	6.08	9.99	10.04	8.60	8.38
Wyoming	10.94	10.73	9.42	9.08	6.92	6.80	--	--	8.18	7.98
Pacific Contiguous	14.05	13.59	12.65	12.77	8.56	8.50	8.74	8.39	12.24	12.06
California	17.01	16.51	14.33	14.60	11.29	11.31	8.72	8.36	14.62	14.54
Oregon	10.48	10.57	8.83	8.84	5.97	5.96	9.25	9.18	8.82	8.78
Washington	9.29	8.69	8.36	8.03	4.43	4.36	9.27	8.67	7.67	7.25
Pacific Noncontiguous	24.00	25.77	21.14	22.89	18.70	21.33	--	--	21.19	23.26
Alaska	20.28	19.79	18.02	17.61	15.14	14.81	--	--	18.14	17.75
Hawaii	27.06	30.95	24.00	27.76	20.03	23.80	--	--	23.26	27.09
U.S. Total	12.42	12.51	10.20	10.50	6.54	6.80	9.42	10.27	10.07	10.29

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

Table 5.7. Number of Ultimate Customers Served by Sector: 2008 - June 2016

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	125,037,870	17,582,277	774,817	726	143,395,691
2009	125,208,777	17,562,150	757,497	703	143,529,126
2010	125,717,767	17,674,167	747,691	238	144,139,862
2011	126,143,072	17,637,928	727,889	92	144,508,982
2012	126,832,252	17,728,903	732,344	83	145,293,583
2013	127,776,941	17,679,466	831,734	74	146,288,214
2014	128,680,294	17,853,836	839,154	79	147,373,362
2015	129,820,862	17,955,347	812,708	75	148,588,992
Year 2014					
January	128,080,045	17,756,185	824,418	82	146,660,730
February	127,760,935	17,694,926	810,164	79	146,266,104
March	128,398,293	17,795,435	817,663	79	147,011,470
April	128,347,095	17,795,240	829,796	80	146,972,211
May	128,428,131	17,834,341	840,580	84	147,103,136
June	128,562,601	17,810,020	838,886	77	147,211,584
July	129,055,781	17,937,858	865,715	78	147,859,432
August	128,924,140	17,889,944	856,377	77	147,670,538
Sept	128,788,358	17,922,008	856,589	78	147,567,033
October	129,521,707	17,993,992	860,902	76	148,376,677
November	128,640,689	17,827,317	824,992	76	147,293,074
December	129,655,750	17,988,765	843,760	76	148,488,351
Year 2015					
January	129,215,651	17,890,834	793,506	75	147,900,066
February	128,876,660	17,822,307	787,486	74	147,486,527
March	129,897,464	17,944,082	801,577	75	148,643,198
April	129,648,338	17,935,819	802,129	75	148,386,361
May	129,617,236	17,668,429	806,924	76	148,092,665
June	129,872,422	18,012,136	827,850	76	148,712,484
July	130,246,512	18,064,686	836,925	76	149,148,199
August	129,626,521	17,980,932	825,351	75	148,432,879
Sept	129,913,018	18,023,117	826,586	75	148,762,796
October	130,290,827	18,053,077	826,398	75	149,170,377
November	129,780,969	17,964,381	801,397	75	148,546,822
December	130,864,727	18,104,363	816,368	74	149,785,532
Year 2016					
January	130,430,473	17,991,148	798,236	77	149,219,934
February	130,178,545	18,063,944	798,870	80	149,041,439
March	131,402,850	18,238,630	809,346	86	150,450,912
April	130,456,379	18,115,094	796,969	84	149,368,526
May	130,986,103	18,166,879	812,677	85	149,965,744
June	131,269,799	18,256,606	827,338	86	150,353,829
Rolling 12 Months Ending in June					
2015	129,309,516	17,902,791	827,317	76	148,039,701
2016	130,453,894	18,085,238	814,705	79	149,353,916

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 2014 and prior years are final. Values for 2016 and 2015 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-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.8. Number of Ultimate Customers Served by Sector by State: June 2016 and 2015

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	6,307,192	6,278,119	863,758	886,755	26,109	26,181	6	6	7,197,065	7,191,061
Connecticut	1,487,050	1,467,107	152,321	150,335	4,391	4,405	3	3	1,643,765	1,621,850
Maine	711,078	707,067	93,369	92,472	3,107	3,040	0	0	807,554	802,579
Massachusetts	2,740,014	2,739,992	396,312	426,105	13,329	13,388	2	2	3,149,657	3,179,487
New Hampshire	613,522	608,866	107,736	105,673	3,252	3,278	0	0	724,510	717,817
Rhode Island	440,826	441,340	58,851	58,792	1,814	1,855	1	1	501,492	501,988
Vermont	314,702	313,747	55,169	53,378	216	215	0	0	370,087	367,340
Middle Atlantic	15,960,511	15,868,275	2,289,306	2,263,151	42,819	43,510	23	18	18,292,659	18,174,954
New Jersey	3,520,450	3,484,791	514,712	512,985	11,906	12,062	6	6	4,047,074	4,009,844
New York	7,109,716	7,075,607	1,076,564	1,057,846	7,695	7,725	11	6	8,193,986	8,141,184
Pennsylvania	5,330,345	5,307,877	698,030	692,320	23,218	23,723	6	6	6,051,599	6,023,926
East North Central	19,975,576	19,817,803	2,469,823	2,453,415	52,270	52,405	8	7	22,497,677	22,323,630
Illinois	5,233,666	5,166,393	605,173	600,632	5,495	5,507	3	3	5,844,337	5,772,535
Indiana	2,812,705	2,787,900	347,740	345,719	17,456	17,483	1	1	3,177,902	3,151,103
Michigan	4,327,211	4,294,884	542,664	536,794	NM	5,643	1	1	4,875,629	4,837,322
Ohio	4,924,002	4,913,519	622,353	621,383	18,788	19,036	2	2	5,565,145	5,553,940
Wisconsin	2,677,992	2,655,107	351,893	348,887	NM	4,736	1	0	3,034,664	3,008,730
West North Central	9,365,984	9,316,743	1,435,700	1,417,091	114,948	113,318	3	2	10,916,635	10,847,154
Iowa	1,366,747	1,362,684	239,878	229,444	NM	6,740	0	0	1,613,483	1,598,868
Kansas	1,258,488	1,248,194	233,045	229,487	26,323	26,276	0	0	1,517,856	1,503,957
Minnesota	2,363,966	2,377,495	284,922	287,380	NM	8,208	1	1	2,657,059	2,673,084
Missouri	2,764,346	2,740,518	375,322	372,434	8,356	8,453	2	1	3,148,026	3,121,406
Nebraska	843,767	832,842	158,155	156,997	54,301	53,302	0	0	1,056,223	1,043,141
North Dakota	374,482	365,997	72,162	69,985	7,900	7,454	0	0	454,544	443,436
South Dakota	394,188	389,013	72,216	71,364	NM	2,885	0	0	469,444	463,262
South Atlantic	27,220,885	26,854,420	3,733,941	3,677,749	80,185	78,885	13	11	31,035,024	30,611,065
Delaware	417,910	413,920	53,028	52,360	1,128	1,134	0	0	472,066	467,414
District of Columbia	258,720	244,989	25,910	25,525	1	1	3	1	284,634	270,516
Florida	9,111,904	8,980,549	1,209,383	1,191,081	20,742	19,940	2	2	10,342,031	10,191,572
Georgia	4,262,619	4,207,668	574,184	566,329	19,458	18,402	1	1	4,856,262	4,792,400
Maryland	2,293,269	2,250,889	251,028	248,371	8,814	8,816	5	5	2,553,116	2,508,081
North Carolina	4,430,937	4,376,913	687,735	671,399	10,054	10,151	1	1	5,128,727	5,058,464
South Carolina	2,224,811	2,191,051	358,604	353,720	4,490	4,590	0	0	2,587,905	2,549,361
Virginia	3,361,271	3,328,780	431,167	427,038	3,795	3,810	1	1	3,796,234	3,759,629
West Virginia	859,444	859,661	142,902	141,926	11,703	12,041	0	0	1,014,049	1,013,628
East South Central	8,315,378	8,234,703	1,377,655	1,362,057	25,337	25,168	0	0	9,718,370	9,621,928
Alabama	2,220,148	2,198,047	366,897	362,363	8,201	8,160	0	0	2,595,246	2,568,570
Kentucky	1,969,730	1,954,557	297,512	295,161	7,736	7,767	0	0	2,274,978	2,257,485
Mississippi	1,296,211	1,285,369	236,306	232,617	8,000	7,822	0	0	1,540,517	1,525,808
Tennessee	2,829,289	2,796,730	476,940	471,916	1,400	1,419	0	0	3,307,629	3,270,065
West South Central	15,536,925	15,409,817	2,288,110	2,194,405	185,763	189,526	6	6	18,010,804	17,793,754
Arkansas	1,370,945	1,359,935	189,384	186,428	37,816	36,791	2	2	1,598,147	1,583,156
Louisiana	2,066,564	2,048,158	291,906	288,137	18,693	18,796	1	1	2,377,164	2,355,092
Oklahoma	1,749,290	1,738,601	281,140	278,447	18,090	18,406	0	0	2,048,520	2,035,454
Texas	10,350,126	10,263,123	1,525,680	1,441,393	111,164	115,533	3	3	11,986,973	11,820,052
Mountain	9,501,872	9,371,004	1,366,333	1,348,606	89,966	90,538	4	4	10,958,175	10,810,152
Arizona	2,702,149	2,667,578	315,981	312,667	6,718	6,742	1	1	3,024,849	2,986,988
Colorado	2,254,090	2,222,044	357,441	353,528	14,645	14,742	1	1	2,626,177	2,590,315
Idaho	712,334	700,442	107,061	105,164	28,184	27,786	0	0	847,579	833,392
Montana	498,871	492,557	107,005	105,301	9,121	9,022	0	0	614,997	606,880
Nevada	1,145,756	1,126,714	161,447	159,906	NM	3,514	1	1	1,310,674	1,290,135
New Mexico	887,902	880,623	138,275	136,993	8,566	8,608	0	0	1,034,743	1,026,224
Utah	1,030,141	1,012,596	120,516	116,809	9,578	10,548	1	1	1,160,236	1,139,954
Wyoming	270,629	268,450	58,607	58,238	9,684	9,576	0	0	338,920	336,264
Pacific Contiguous	18,370,594	18,009,670	2,318,037	2,297,333	207,774	206,277	23	22	20,896,428	20,513,302
California	13,677,324	13,389,559	1,706,362	1,697,875	152,530	152,793	15	13	15,536,231	15,240,240
Oregon	1,718,009	1,692,757	234,605	231,610	26,296	25,027	2	2	1,978,912	1,949,396
Washington	2,975,261	2,927,354	377,070	367,848	28,948	28,457	6	7	3,381,285	3,323,666
Pacific Noncontiguous	714,882	711,868	113,943	111,574	NM	2,042	0	0	830,992	825,484
Alaska	284,527	283,417	52,879	50,612	NM	NM	0	0	338,776	335,346
Hawaii	430,355	428,451	61,064	60,962	797	725	0	0	492,216	490,138
U.S. Total	131,269,799	129,872,422	18,256,606	18,012,136	827,338	827,850	86	76	150,353,829	148,712,484

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
NM = Not Meaningful due to large relative standard error or excessive percentage change.
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Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 6.1. Electric Generating Summer Capacity Changes (MW), May 2016 to June 2016

		As of End of May 2016	Activity During June 2016 as Reported to EIA		As of End of June 2016	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*	*73,848.6*	*420.0*	*1.3*	*74,267.3*	*418.7*	*1,689.4*	*7,662.9*	*643.6*	*7,644.7*	*0.0*	*0.0*	*643.6*	*7,644.7*	*74,910.9*	*81,912.0*
..... *Offshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*0.0*	*29.3*	*0.0*	*29.3*
..... Wind (Summer Capacity)	Utility Scale Facilities	73,848.6	420.0	1.3	74,267.3	418.7	1,689.4	7,662.9	643.6	7,674.0	0.0	0.0	643.6	7,674.0	74,910.9	81,941.3
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*13,005.3*	*236.1*	*51.6*	*13,189.8*	*184.5*	*1,560.1*	*3,591.5*	*1,044.0*	*8,533.9*	*0.0*	*0.0*	*1,044.0*	*8,533.9*	*14,233.8*	*21,723.7*
..... *Solar Thermal without Energy Storage*	*Utility Scale Facilities*	*1,396.3*	*0.0*	*43.8*	*1,352.5*	*-43.8*	*-18.8*	*-18.8*	*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*	*110.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*405.4*	*405.4*
..... Solar Subtotal	Utility Scale Facilities	14,807.0	236.1	95.4	14,947.7	140.7	1,541.3	3,682.7	1,044.0	8,533.9	0.0	0.0	1,044.0	8,533.9	15,991.7	23,481.6
..... Conventional Hydroelectric	Utility Scale Facilities	79,874.7	29.3	22.0	79,882.0	7.3	140.3	73.5	131.2	324.4	0.0	116.7	131.2	207.7	80,013.2	80,089.7
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,900.1*	*9.2*	*0.0*	*8,909.3*	*9.2*	*354.9*	*389.1*	*0.0*	*70.5*	*0.0*	*10.5*	*0.0*	*60.0*	*8,909.3*	*8,969.3*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,111.9*	*0.0*	*3.5*	*2,108.4*	*-3.5*	*-9.2*	*-8.2*	*2.1*	*26.6*	*2.4*	*11.4*	*-0.3*	*15.2*	*2,108.1*	*2,123.6*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,247.1*	*5.2*	*0.0*	*2,252.3*	*5.2*	*-1.6*	*27.4*	*0.0*	*0.0*	*0.0*	*2.0*	*0.0*	*-2.0*	*2,252.3*	*2,250.3*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*807.7*	*0.0*	*0.4*	*807.3*	*-0.4*	*-31.2*	*-25.1*	*0.0*	*25.2*	*0.0*	*0.8*	*0.0*	*24.4*	*807.3*	*831.7*
..... Biomass Sources Subtotal	Utility Scale Facilities	14,066.8	14.4	3.9	14,077.3	10.5	312.9	383.2	2.1	122.3	2.4	24.7	-0.3	97.6	14,077.0	14,174.9
..... Geothermal	Utility Scale Facilities	2,541.5	0.0	0.0	2,541.5	0.0	11.3	-2.9	0.0	0.0	0.0	30.0	0.0	-30.0	2,541.5	2,511.5
... Renewable Sources Subtotal	***Utility Scale Facilities***	***185,138.6***	***699.8***	***122.6***	***185,715.8***	***577.2***	***3,695.2***	***11,799.4***	***1,820.9***	***16,654.6***	***2.4***	***171.4***	***1,818.5***	***16,483.2***	***187,534.3***	***202,199.0***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*236,918.3*	*567.8*	*9.0*	*237,477.1*	*558.8*	*3,122.8*	*5,390.9*	*1,969.1*	*12,377.4*	*0.0*	*95.0*	*1,969.1*	*12,282.4*	*239,446.2*	*249,759.5*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*124,146.9*	*234.0*	*134.1*	*124,246.8*	*99.9*	*-573.4*	*-249.7*	*469.0*	*1,521.0*	*0.0*	*149.3*	*469.0*	*1,371.7*	*124,715.8*	*125,618.5*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*79,075.3*	*575.0*	*411.7*	*79,238.6*	*163.3*	*3,487.0*	*2,489.5*	*0.0*	*42.0*	*92.0*	*546.0*	*-92.0*	*-504.0*	*79,146.6*	*78,734.6*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*3,733.5*	*21.0*	*0.0*	*3,754.5*	*21.0*	*173.1*	*208.2*	*54.9*	*538.7*	*0.9*	*4.2*	*54.0*	*534.5*	*3,808.5*	*4,289.0*
..... *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*	*107.1*	*0.0*	*0.0*	*107.1*	*0.0*	*1.1*	*7.6*	*0.0*	*7.0*	*0.0*	*0.0*	*0.0*	*7.0*	*107.1*	*114.1*
..... Natural Gas Subtotal	Utility Scale Facilities	444,091.1	1,397.8	554.8	444,934.1	843.0	6,210.6	7,846.5	2,493.0	14,486.1	92.9	794.5	2,400.1	13,691.6	447,334.2	458,625.7
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*272,856.4*	*1,561.8*	*2,201.1*	*272,217.1*	*-639.3*	*-11,493.6*	*-15,255.6*	*0.0*	*12.2*	*0.0*	*3,761.1*	*0.0*	*-3,748.9*	*272,217.1*	*268,468.2*
..... *Coal Integrated Gasification Combined Cycle*	*Utility Scale Facilities*	*815.0*	*0.0*	*0.0*	*815.0*	*0.0*	*24.0*	*24.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*815.0*	*815.0*
..... Coal Subtotal	Utility Scale Facilities	273,671.4	1,561.8	2,201.1	273,032.1	-639.3	-11,469.6	-15,231.6	0.0	12.2	0.0	3,761.1	0.0	-3,748.9	273,032.1	269,283.2
..... Petroleum Coke	Utility Scale Facilities	1,540.3	0.0	0.0	1,540.3	0.0	-649.9	-649.9	0.0	0.0	0.0	0.0	0.0	0.0	1,540.3	1,540.3
..... Petroleum Liquids	Utility Scale Facilities	34,844.6	27.0	4.6	34,867.0	22.4	-1,930.3	-2,087.1	2.3	35.3	1.0	683.3	1.3	-648.0	34,868.3	34,219.0
..... Other Gases	Utility Scale Facilities	2,498.7	0.0	0.0	2,498.7	0.0	584.4	584.4	0.0	0.0	0.0	3.2	0.0	-3.2	2,498.7	2,495.5
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***756,646.1***	***2,986.6***	***2,760.5***	***756,872.2***	***226.1***	***-7,254.8***	***-9,537.7***	***2,495.3***	***14,533.6***	***93.9***	***5,242.1***	***2,401.4***	***9,291.5***	***759,273.6***	***766,163.7***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,670.1	0.0	0.0	22,670.1	0.0	112.0	112.0	0.0	114.0	0.0	0.0	0.0	114.0	22,670.1	22,784.1
..... Flywheels	Utility Scale Facilities	42.0	0.0	0.0	42.0	0.0	-1.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0
..... Batteries	Utility Scale Facilities	299.2	25.0	0.0	324.2	25.0	78.5	134.6	0.0	96.6	0.0	0.0	0.0	96.6	324.2	420.8
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,011.3***	***25.0***	***0.0***	***23,036.3***	***25.0***	***189.5***	***245.6***	***0.0***	***210.6***	***0.0***	***0.0***	***0.0***	***210.6***	***23,036.3***	***23,246.9***
... Nuclear	***Utility Scale Facilities***	***98,672.0***	***1,122.0***	***0.0***	***99,794.0***	***1,122.0***	***1,065.0***	***1,065.0***	***0.0***	***0.0***	***0.0***	***1,314.9***	***0.0***	***-1,314.9***	***99,794.0***	***98,479.1***
... All Other	***Utility Scale Facilities***	***1,462.1***	***8.4***	***0.7***	***1,469.8***	***7.7***	***-139.0***	***-139.0***	***0.0***	***16.5***	***0.0***	***0.0***	***0.0***	***16.5***	***1,469.8***	***1,486.3***
TOTAL	**UTILITY SCALE FACILITIES**	**1,064,930.1**	**4,841.8**	**2,883.8**	**1,066,888.1**	**1,958.0**	**-2,444.1**	**3,433.3**	**4,316.2**	**31,415.3**	**96.3**	**6,728.4**	**4,219.9**	**24,686.9**	**1,071,108.0**	**1,091,575.0**
..... *Estimated Distributed Solar Photovoltaic*	*Distributed Facilities*	*9,367.3*			*9,690.6*	*323.3*	*1,311.5*	*2,585.2*								
..... Estimated Total Solar Photovoltaic	All Facilities	22,372.6			22,880.4	507.8	2,871.6	6,176.7								
... Estimated Total Solar	***All Facilities***	***24,174.3***			***24,638.3***	***464.0***	***2,852.8***	***6,267.9***								

NOTES:
Planned Capacity Additions reflect plans to begin operating new units and plans to uprate existing units.
Planned Capacity Reductions reflect plans to retire or derate existing units.
Actual Capacity Additions reflect new units, uprates to existing units, corrections to previously reported capacities, and additions not previously reported.
Actual Capacity Reductions reflect retirements of and derates to existing units, corrections to previously reported capacities, and reductions not previously reported.
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a signifciant portion of 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.'
Estimated distributed solar photovoltaic capacity is based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 6.1.A. Net Summer Capacity for Utility Scale Solar Photovoltaic and Distributed Solar Photovoltaic Capacity (Megawatts)
2008 - June 2016

Period	Utility Solar Photovoltaic	Estimated Distributed 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	6,221.4	14,878.0
2015	11,629.7	8,379.1	20,008.8
Year 2014			
January	5,688.0	4,763.4	10,451.4
February	5,839.2	4,862.8	10,702.0
March	5,967.9	4,970.5	10,938.4
April	6,188.0	5,077.5	11,265.5
May	6,368.8	5,190.8	11,559.6
June	6,564.1	5,291.3	11,855.4
July	6,706.3	5,413.5	12,119.8
August	7,105.0	5,609.8	12,714.8
Sept	7,215.1	5,734.2	12,949.3
October	7,575.3	5,880.0	13,455.3
November	8,005.3	6,011.2	14,016.5
December	8,656.6	6,221.4	14,878.0
Year 2015			
January	8,818.7	6,389.8	15,208.5
February	8,975.4	6,522.6	15,498.0
March	9,036.5	6,655.5	15,692.0
April	9,119.2	6,797.0	15,916.2
May	9,329.5	6,951.3	16,280.8
June	9,598.3	7,105.5	16,703.8
July	9,686.2	7,320.9	17,007.1
August	9,897.9	7,491.9	17,389.8
Sept	10,001.7	7,689.4	17,691.1
October	10,104.3	7,875.7	17,980.0
November	10,419.4	8,061.4	18,480.8
December	11,629.7	8,379.1	20,008.8
Year 2016			
January	11,831.6	8,620.7	20,452.3
February	12,117.7	8,789.5	20,907.2
March	12,307.0	9,090.7	21,397.7
April	12,880.6	9,169.6	22,050.2
May	13,005.3	9,367.3	22,372.6
June	13,189.8	9,690.6	22,880.4

Values are preliminary.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
Estimated distributed solar photovoltaic capacity is based on data from Form EIA-826, Form EIA-861 and from

Table 6.1.B. Net Summer Capacity for Estimated Distributed Solar Photovoltaic Capacity by Sector (Megawatts): 2014 - June 2016

Period	Residential	Commercial	Industrial	Total
Annual Totals				
2014	2,870.8	2,771.8	578.8	6,221.4
2015	4,375.5	3,291.7	712.0	8,379.1
Year 2014				
January	1,963.5	2,334.5	465.4	4,763.4
February	2,023.4	2,367.5	471.9	4,862.8
March	2,087.0	2,405.5	477.9	4,970.5
April	2,154.7	2,435.5	487.3	5,077.5
May	2,224.6	2,474.9	491.3	5,190.8
June	2,301.1	2,490.8	499.4	5,291.3
July	2,376.1	2,528.2	509.1	5,413.5
August	2,468.4	2,617.0	524.4	5,609.8
Sept	2,559.3	2,644.5	530.4	5,734.2
October	2,655.0	2,673.0	552.0	5,880.0
November	2,739.3	2,707.4	564.6	6,011.2
December	2,870.8	2,771.8	578.8	6,221.4
Year 2015				
January	2,960.1	2,834.5	595.2	6,389.8
February	3,060.8	2,853.3	608.4	6,522.6
March	3,169.2	2,873.3	613.0	6,655.5
April	3,274.8	2,901.6	620.6	6,797.0
May	3,384.1	2,936.6	630.6	6,951.3
June	3,516.4	2,956.2	632.9	7,105.5
July	3,650.7	3,023.2	647.0	7,320.9
August	3,779.3	3,055.3	657.2	7,491.9
Sept	3,936.7	3,086.7	665.9	7,689.4
October	4,083.9	3,115.8	676.0	7,875.7
November	4,212.2	3,160.3	688.9	8,061.4
December	4,375.5	3,291.7	712.0	8,379.1
Year 2016				
January	4,552.4	3,342.6	725.6	8,620.7
February	4,715.1	3,334.2	740.2	8,789.5
March	4,931.2	3,392.5	766.9	9,090.7
April	5,076.7	3,305.2	787.6	9,169.6
May	5,230.9	3,340.4	796.0	9,367.3
June	5,442.8	3,424.9	823.0	9,690.6

Values are preliminary.

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

Table 6.2.A. Net Summer Capacity of Utility Scale Units by Technology and by State, June 2016 and 2015 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	4,999.2	4,602.3	22,722.5	22,840.9	1,797.4	1,775.4	2.0	3.0	4,018.0	4,046.3	48.0	52.9	33,587.1	33,320.8
Connecticut	333.6	331.4	6,307.1	6,267.5	29.4	29.4	0.0	0.0	2,087.8	2,122.5	26.0	30.9	8,783.9	8,781.7
Maine	2,150.5	1,795.4	2,442.5	2,645.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	22.0	4,615.0	4,462.4
Massachusetts	966.9	939.8	9,811.0	9,800.4	1,768.0	1,746.0	2.0	3.0	682.3	677.6	0.0	0.0	13,230.2	13,166.8
New Hampshire	932.5	935.4	2,270.9	2,266.7	0.0	0.0	0.0	0.0	1,247.9	1,246.2	0.0	0.0	4,451.3	4,448.3
Rhode Island	54.5	50.3	1,791.3	1,761.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,845.8	1,812.1
Vermont	561.2	550.0	99.7	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	660.9	649.5
Middle Atlantic	10,671.3	10,579.2	68,112.8	67,517.6	3,409.1	3,409.1	40.0	40.0	19,224.5	19,321.3	11.2	11.2	101,468.9	100,878.4
New Jersey	691.7	671.6	13,557.5	12,503.4	420.0	420.0	0.0	0.0	4,107.9	4,110.1	11.2	11.2	18,788.3	17,716.3
New York	7,125.4	7,048.0	25,956.7	26,520.7	1,406.1	1,406.1	20.0	20.0	5,397.6	5,431.4	0.0	0.0	39,905.8	40,426.2
Pennsylvania	2,854.2	2,859.6	28,598.6	28,493.5	1,583.0	1,583.0	20.0	20.0	9,719.0	9,779.8	0.0	0.0	42,774.8	42,735.9
East North Central	10,208.0	9,797.3	113,609.7	117,028.2	2,037.0	1,945.0	127.6	59.0	18,896.1	18,873.3	110.1	109.1	144,988.5	147,811.9
Illinois	3,977.0	3,805.1	29,433.6	30,013.3	0.0	0.0	72.6	33.0	11,589.6	11,564.1	0.0	0.0	45,072.8	45,415.5
Indiana	2,156.5	1,970.0	23,353.9	24,245.0	0.0	0.0	20.0	0.0	0.0	0.0	89.0	88.0	25,619.4	26,303.0
Michigan	2,258.4	2,147.7	20,672.1	22,106.0	2,037.0	1,945.0	0.0	0.0	3,976.5	3,982.0	0.0	0.0	28,944.0	30,180.7
Ohio	715.6	717.0	25,800.0	26,041.2	0.0	0.0	35.0	26.0	2,134.0	2,134.0	0.0	0.0	28,684.6	28,918.2
Wisconsin	1,100.5	1,157.5	14,350.1	14,622.7	0.0	0.0	0.0	0.0	1,196.0	1,193.2	21.1	21.1	16,667.7	16,994.5
West North Central	21,565.3	19,157.8	60,553.2	61,824.3	657.0	657.0	2.0	2.0	5,855.5	5,806.0	24.5	24.5	88,657.5	87,471.6
Iowa	6,349.2	5,761.0	9,532.5	10,063.1	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	16,483.1	16,425.5
Kansas	3,863.7	2,991.9	9,716.8	9,944.8	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	14,756.3	14,112.5
Minnesota	3,921.2	3,423.9	10,133.2	10,239.2	0.0	0.0	1.0	1.0	1,647.0	1,594.0	18.4	18.4	15,720.8	15,276.5
Missouri	1,035.2	1,053.6	18,659.1	18,916.9	657.0	657.0	1.0	1.0	1,190.0	1,193.0	0.0	0.0	21,542.3	21,821.5
Nebraska	1,218.7	1,105.4	6,236.1	6,384.4	0.0	0.0	0.0	0.0	1,242.1	1,242.6	0.0	0.0	8,696.9	8,732.4
North Dakota	2,741.5	2,484.0	4,585.2	4,585.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	7,332.0	7,074.9
South Dakota	2,435.8	2,338.0	1,690.3	1,690.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,126.1	4,028.3
South Atlantic	14,362.6	13,082.5	159,974.8	160,084.5	7,905.2	7,905.2	76.5	34.0	24,578.6	24,559.1	509.7	586.7	207,407.4	206,252.0
Delaware	44.9	44.9	3,359.5	3,351.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,404.4	3,396.3
District of Columbia	12.0	6.6	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	15.6
Florida	1,430.9	1,319.3	54,092.6	53,916.8	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	488.7	59,444.2	59,296.8
Georgia	3,238.9	2,959.3	27,190.9	27,454.1	1,862.2	1,862.2	0.0	0.0	4,061.0	4,061.0	0.0	44.0	36,353.0	36,380.6
Maryland	1,004.4	958.7	9,556.7	9,693.2	0.0	0.0	11.0	0.0	1,707.8	1,707.8	0.0	0.0	12,279.9	12,359.7
North Carolina	4,175.3	3,378.0	22,021.3	21,973.4	86.0	86.0	0.0	0.0	5,113.6	5,094.1	161.0	54.0	31,557.2	30,585.5
South Carolina	1,790.4	1,779.5	11,633.0	11,772.3	2,716.0	2,716.0	0.0	0.0	6,556.2	6,556.2	0.0	0.0	22,695.6	22,824.0
Virginia	1,757.8	1,750.2	17,948.5	17,158.4	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	26,515.3	25,717.6
West Virginia	908.0	886.0	14,163.3	14,755.9	0.0	0.0	65.5	34.0	0.0	0.0	0.0	0.0	15,136.8	15,675.9
East South Central	8,213.6	7,956.3	66,885.3	69,509.3	1,616.3	1,616.3	0.0	0.0	10,990.1	9,875.6	1.4	1.4	87,706.7	88,958.9
Alabama	3,939.9	3,886.9	21,159.5	22,793.0	0.0	0.0	0.0	0.0	5,066.4	5,066.4	0.0	0.0	30,165.8	31,746.3
Kentucky	1,109.9	905.6	19,004.5	19,216.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,114.4	20,121.8
Mississippi	274.7	274.7	14,407.4	14,405.7	0.0	0.0	0.0	0.0	1,401.0	1,408.5	1.4	1.4	16,084.5	16,090.3
Tennessee	2,889.1	2,889.1	12,313.9	13,094.4	1,616.3	1,616.3	0.0	0.0	4,522.7	3,400.7	0.0	0.0	21,342.0	21,000.5
West South Central	28,374.7	24,101.9	145,594.5	147,580.6	286.0	288.0	36.0	36.0	8,896.2	8,912.4	512.2	513.2	183,699.6	181,432.1
Arkansas	1,590.6	1,632.0	11,279.6	11,270.5	28.0	28.0	0.0	0.0	1,808.5	1,819.6	0.0	0.0	14,706.7	14,750.1
Louisiana	642.1	642.1	23,340.8	23,516.9	0.0	0.0	0.0	0.0	2,127.7	2,132.8	275.9	275.8	26,386.5	26,567.6
Oklahoma	6,389.5	4,869.3	18,162.4	19,234.1	258.0	260.0	0.0	0.0	0.0	0.0	0.0	0.0	24,809.9	24,363.4
Texas	19,752.5	16,958.5	92,811.7	93,559.1	0.0	0.0	36.0	36.0	4,960.0	4,960.0	236.3	237.4	117,796.5	115,751.0
Mountain	22,538.4	20,918.2	64,087.8	63,943.2	778.8	778.8	2.6	2.6	3,937.0	3,937.0	119.8	111.4	91,464.4	89,691.2
Arizona	4,557.4	4,406.6	19,382.4	19,674.4	216.3	216.3	0.0	0.0	3,937.0	3,937.0	0.0	0.0	28,093.1	28,234.3
Colorado	3,873.1	3,398.8	11,363.0	10,986.2	562.5	562.5	0.0	0.0	0.0	0.0	9.3	9.3	15,807.9	14,956.8
Idaho	3,776.1	3,776.1	1,157.5	1,152.9	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	4,948.4	4,943.8
Montana	3,414.1	3,397.8	2,740.4	2,762.7	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,198.5	6,204.5
Nevada	2,792.4	2,386.5	8,258.7	8,258.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11,051.1	10,645.2
New Mexico	1,514.4	1,168.0	6,936.9	6,914.8	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,453.9	8,085.4
Utah	896.5	670.0	7,462.4	7,454.4	0.0	0.0	0.0	0.0	0.0	0.0	40.2	31.8	8,399.1	8,156.2
Wyoming	1,714.4	1,714.4	6,786.5	6,739.1	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,512.4	8,465.0
Pacific Contiguous	63,702.8	62,660.5	51,172.2	51,948.9	4,183.3	4,183.3	25.5	8.0	3,398.0	3,398.0	106.3	171.8	122,588.1	122,370.5
California	26,946.4	25,840.9	42,484.7	43,296.4	3,869.3	3,869.3	18.5	8.0	2,240.0	2,240.0	106.3	121.0	75,665.2	75,375.6
Oregon	12,041.1	12,040.0	3,872.8	3,859.6	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	15,918.9	15,899.6
Washington	24,715.3	24,779.6	4,814.7	4,792.9	314.0	314.0	2.0	0.0	1,158.0	1,158.0	0.0	50.8	31,004.0	31,095.3
Pacific Noncontiguous	1,079.9	1,060.4	4,159.4	4,132.4	0.0	0.0	54.0	48.0	0.0	0.0	26.6	26.6	5,319.9	5,267.4
Alaska	508.7	507.5	2,102.2	2,060.4	0.0	0.0	27.0	27.0	0.0	0.0	0.0	0.0	2,637.9	2,594.9
Hawaii	571.2	552.9	2,057.2	2,072.0	0.0	0.0	27.0	21.0	0.0	0.0	26.6	26.6	2,682.0	2,672.5
U.S. Total	185,715.8	173,916.4	756,872.2	766,409.9	22,670.1	22,558.1	366.2	232.6	99,794.0	98,729.0	1,469.8	1,608.8	1,066,888.1	1,063,454.8

Values are preliminary.

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

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

Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources and by State, June 2016 and 2015 (Megawatts)

Census Division and State	Summer Capacity at Utility Scale Facilities														Distributed Capacity		Summer Capacity From Utility Scale Facilities and Distributed Capacity			
	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Distributed Solar Photovoltaic Capacity		Estimated Total Solar Photovoltaic Capacity		Estimated Total Solar Capacity	
	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	1,004.7	808.2	390.6	357.6	0.0	0.0	1,955.2	1,966.2	1,648.7	1,470.3	0.0	0.0	4,999.2	4,602.3	1,014.5	643.5	1,405.1	1,001.1	1,405.1	1,001.1
Connecticut	0.0	0.0	12.2	10.0	0.0	0.0	122.2	122.2	199.2	199.2	0.0	0.0	333.6	331.4	179.5	108.2	191.7	118.2	191.7	118.2
Maine	612.8	430.6	0.0	0.0	0.0	0.0	728.9	733.0	808.8	631.8	0.0	0.0	2,150.5	1,795.4	16.9	10.6	16.9	10.6	16.9	10.6
Massachusetts	82.6	82.6	335.1	310.5	0.0	0.0	265.9	263.4	283.3	283.3	0.0	0.0	966.9	939.8	715.8	465.0	1,050.9	775.5	1,050.9	775.5
New Hampshire	183.1	171.0	0.0	0.0	0.0	0.0	504.8	521.3	244.6	243.1	0.0	0.0	932.5	935.4	30.3	13.0	30.3	13.0	30.3	13.0
Rhode Island	6.0	3.8	8.9	6.9	0.0	0.0	2.7	2.7	36.9	36.9	0.0	0.0	54.5	50.3	12.6	8.2	21.5	15.1	21.5	15.1
Vermont	120.2	120.2	34.4	30.2	0.0	0.0	330.7	323.6	75.9	76.0	0.0	0.0	561.2	550.0	59.4	38.5	93.8	68.7	93.8	68.7
Middle Atlantic	3,088.1	3,098.5	576.5	516.7	0.0	0.0	5,623.5	5,618.8	1,383.2	1,345.2	0.0	0.0	10,671.3	10,579.2	1,608.6	1,243.8	2,185.1	1,760.5	2,185.1	1,760.5
New Jersey	7.6	7.6	442.7	420.9	0.0	0.0	12.3	12.3	229.1	230.8	0.0	0.0	691.7	671.6	914.4	769.1	1,357.1	1,190.0	1,357.1	1,190.0
New York	1,747.0	1,747.0	91.6	53.7	0.0	0.0	4,711.6	4,713.1	575.2	534.2	0.0	0.0	7,125.4	7,048.0	529.3	329.5	620.9	383.2	620.9	383.2
Pennsylvania	1,333.5	1,343.9	42.2	42.1	0.0	0.0	899.6	893.4	578.9	580.2	0.0	0.0	2,854.2	2,859.6	164.9	145.2	207.1	187.3	207.1	187.3
East North Central	7,814.1	7,480.4	215.3	166.6	0.0	0.0	910.3	918.2	1,268.3	1,232.1	0.0	0.0	10,208.0	9,797.3	150.2	126.8	365.5	293.4	365.5	293.4
Illinois	3,799.8	3,624.8	32.8	31.9	0.0	0.0	34.1	34.1	110.3	114.3	0.0	0.0	3,977.0	3,805.1	18.8	15.9	51.6	47.8	51.6	47.8
Indiana	1,889.7	1,739.7	131.9	95.1	0.0	0.0	60.4	60.4	74.5	74.8	0.0	0.0	2,156.5	1,970.0	12.7	8.0	144.6	103.1	144.6	103.1
Michigan	1,360.1	1,360.1	6.9	1.0	0.0	0.0	330.9	333.1	560.5	453.5	0.0	0.0	2,258.4	2,147.7	29.3	26.0	36.2	27.0	36.2	27.0
Ohio	433.1	424.1	42.7	37.6	0.0	0.0	101.9	101.9	137.9	153.4	0.0	0.0	715.6	717.0	66.3	58.4	109.0	96.0	109.0	96.0
Wisconsin	331.4	331.7	1.0	1.0	0.0	0.0	383.0	388.7	385.1	436.1	0.0	0.0	1,100.5	1,157.5	23.1	18.5	24.1	19.5	24.1	19.5
West North Central	17,707.6	15,327.0	23.5	13.2	0.0	0.0	3,278.1	3,300.8	556.1	516.8	0.0	0.0	21,565.3	19,157.8	160.9	132.2	184.4	145.4	184.4	145.4
Iowa	6,181.1	5,595.7	0.0	0.0	0.0	0.0	144.9	144.9	23.2	20.4	0.0	0.0	6,349.2	5,761.0	28.1	22.8	28.1	22.8	28.1	22.8
Kansas	3,846.7	2,968.9	1.0	1.0	0.0	0.0	7.0	7.0	9.0	15.0	0.0	0.0	3,863.7	2,991.9	3.8	2.6	4.8	3.6	4.8	3.6
Minnesota	3,240.7	2,787.8	4.0	1.7	0.0	0.0	194.6	195.0	481.9	439.4	0.0	0.0	3,921.2	3,423.9	22.3	17.0	26.3	18.7	26.3	18.7
Missouri	458.5	458.5	14.5	10.5	0.0	0.0	545.7	568.1	16.5	16.5	0.0	0.0	1,035.2	1,053.6	105.1	88.4	119.6	98.9	119.6	98.9
Nebraska	921.1	811.9	4.0	0.0	0.0	0.0	277.9	277.8	15.7	15.7	0.0	0.0	1,218.7	1,105.4	NM	0.8	NM	0.8	NM	0.8
North Dakota	2,221.7	1,964.2	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	2,741.5	2,484.0	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	837.8	740.0	0.0	0.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	2,435.8	2,338.0	0.4	0.3	0.4	0.3	0.4	0.3
South Atlantic	775.3	745.3	2,183.7	985.4	0.0	0.0	7,229.7	7,198.0	4,173.9	4,153.8	0.0	0.0	14,362.6	13,082.5	743.6	455.5	2,927.3	1,440.9	2,927.3	1,440.9
Delaware	2.0	2.0	30.7	30.7	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	44.9	44.9	57.5	40.1	88.2	70.8	88.2	70.8
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	6.6	0.0	0.0	12.0	6.6	24.3	16.6	24.3	16.6	24.3	16.6
Florida	0.0	0.0	87.8	72.9	0.0	0.0	54.5	54.5	1,288.6	1,191.9	0.0	0.0	1,430.9	1,319.3	120.9	86.2	208.7	159.1	208.7	159.1
Georgia	0.0	0.0	293.6	68.6	0.0	0.0	2,047.5	2,047.6	897.8	843.1	0.0	0.0	3,238.9	2,959.3	NM	51.1	NM	119.7	NM	119.7
Maryland	190.0	160.0	82.4	63.6	0.0	0.0	590.0	590.0	142.0	145.1	0.0	0.0	1,004.4	958.7	359.7	173.2	442.1	236.8	442.1	236.8
North Carolina	0.0	0.0	1,683.7	747.1	0.0	0.0	2,004.1	1,999.1	487.5	631.8	0.0	0.0	4,175.3	3,378.0	77.1	64.8	1,760.8	811.9	1,760.8	811.9
South Carolina	0.0	0.0	2.5	2.5	0.0	0.0	1,345.1	1,340.3	442.8	436.7	0.0	0.0	1,790.4	1,779.5	17.0	3.7	19.5	6.2	19.5	6.2
Virginia	0.0	0.0	3.0	0.0	0.0	0.0	866.0	866.0	888.8	884.2	0.0	0.0	1,757.8	1,750.2	26.1	17.2	29.1	17.2	29.1	17.2
West Virginia	583.3	583.3	0.0	0.0	0.0	0.0	322.5	300.5	2.2	2.2	0.0	0.0	908.0	886.0	3.6	2.6	3.6	2.6	3.6	2.6
East South Central	29.1	29.1	55.2	45.2	0.0	0.0	6,919.8	6,724.9	1,209.5	1,157.1	0.0	0.0	8,213.6	7,956.3	50.2	48.9	105.4	94.1	105.4	94.1
Alabama	0.0	0.0	0.0	0.0	0.0	0.0	3,271.0	3,271.0	668.9	615.9	0.0	0.0	3,939.9	3,886.9	2.0	1.9	2.0	1.9	2.0	1.9
Kentucky	0.0	0.0	10.0	0.0	0.0	0.0	1,030.2	835.3	69.7	70.3	0.0	0.0	1,109.9	905.6	10.0	8.6	20.0	8.6	20.0	8.6
Mississippi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	274.7	274.7	1.2	1.4	1.2	1.4	1.2	1.4
Tennessee	29.1	29.1	45.2	45.2	0.0	0.0	2,618.6	2,618.6	196.2	196.2	0.0	0.0	2,889.1	2,889.1	37.1	37.1	82.3	82.3	82.3	82.3
West South Central	23,727.8	19,509.8	332.4	215.9	0.0	0.0	2,986.5	3,049.6	1,328.0	1,326.6	0.0	0.0	28,374.7	24,101.9	292.6	196.9	625.0	412.8	625.0	412.8
Arkansas	0.0	0.0	12.0	0.0	0.0	0.0	1,266.2	1,323.6	312.4	308.4	0.0	0.0	1,590.6	1,632.0	4.2	3.2	16.2	3.2	16.2	3.2
Louisiana	0.0	0.0	0.0	0.0	0.0	0.0	192.0	192.0	450.1	450.1	0.0	0.0	642.1	642.1	117.2	84.8	117.2	84.8	117.2	84.8
Oklahoma	5,451.2	3,929.9	2.5	0.0	0.0	0.0	859.6	863.2	76.2	76.2	0.0	0.0	6,389.5	4,869.3	2.2	1.7	4.7	1.7	4.7	1.7
Texas	18,276.6	15,579.9	317.9	215.9	0.0	0.0	668.7	670.8	489.3	491.9	0.0	0.0	19,752.5	16,958.5	168.9	107.1	486.8	323.0	486.8	323.0
Mountain	7,901.4	7,096.8	2,880.2	2,190.0	473.9	363.9	10,561.7	10,560.8	176.4	178.2	544.8	528.5	22,538.4	20,918.2	1,320.2	1,010.1	4,200.4	3,200.1	4,674.3	3,564.0
Arizona	267.3	237.3	1,243.1	1,118.3	295.4	295.4	2,720.9	2,720.9	30.7	34.7	0.0	0.0	4,557.4	4,406.6	701.6	579.6	1,944.7	1,697.9	2,240.1	1,993.3
Colorado	2,961.8	2,566.1	206.2	129.0	0.0	0.0	677.7	676.3	27.4	27.4	0.0	0.0	3,873.1	3,398.8	270.9	238.7	477.1	367.7	477.1	367.7
Idaho	962.7	962.7	0.0	0.0	0.0	0.0	2,707.7	2,707.7	95.7	95.7	10.0	10.0	3,776.1	3,776.1	5.9	3.6	5.9	3.6	5.9	3.6
Montana	653.5	636.7	0.0	0.0	0.0	0.0	2,757.6	2,758.1	3.0	3.0	0.0	0.0	3,414.1	3,397.8	6.9	5.2	6.9	5.2	6.9	5.2
Nevada	150.0	150.0	949.1	669.5	178.5	68.5	1,051.4	1,051.4	3.2	3.2	460.2	443.9	2,792.4	2,386.5	168.8	79.8	1,117.9	749.3	1,296.4	817.8
New Mexico	1,112.3	812.3	315.4	269.0	0.0	0.0	82.9	82.9	2.2	2.2	1.6	1.6	1,514.4	1,168.0	84.5	67.4	399.9	336.4	399.9	336.4
Utah	386.5	324.4	166.4	4.2	0.0	0.0	256.4	256.4	14.2	12.0	73.0	73.0	896.5	670.0	79.5	34.2	245.9	38.4	245.9	38.4
Wyoming	1,407.3	1,407.3	0.0	0.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,714.4	1,714.4	NM	1.6	NM	1.6	NM	1.6
Pacific Contiguous	11,953.0	12,243.7	6,488.2	5,075.5	1,284.0	1,302.8	39,951.1	40,005.7	2,072.8	2,059.9	1,953.7	1,972.9	63,702.8	62,660.5	3,941.3	2,905.4	10,429.5	7,980.9	11,713.5	9,283.7
California	5,722.5	6,013.2	6,466.5	5,061.1	1,284.0	1,302.8	10,187.0	10,175.9	1,352.2	1,332.7	1,934.2	1,955.2	26,946.4	25,840.9	3,799.2	2,801.0	10,265.7	7,862.1	11,549.7	9,164.9
Oregon	3,157.4	3,157.4	21.2	13.9	0.0	0.0	8,525.4	8,519.8	317.6	331.2	19.5	17.7	12,041.1	12,040.0	81.6	66.5	102.8	80.4	102.8	80.4
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,238.7	21,310.0	403.0	396.0	0.0	0.0	24,715.3	24,779.6	60.5	37.9	61.0	38.4	61.0	38.4
Pacific Noncontiguous	266.2	265.6	44.2	32.2	0.0	0.0	466.1	465.5	260.4	254.1	43.0	43.0	1,079.9	1,060.4	408.6	342.2	452.8	374.4	452.8	374.4
Alaska	60.6	60.0	0.0	0.0	0.0	0.0	441.1	440.5	7.0	7.0	0.0	0.0	508.7	507.5	0.0	0.0	0.0	0.0	0.0	0.0
Hawaii	205.6	205.6	44.2	32.2	0.0	0.0	25.0	25.0	253.4	247.1	43.0	43.0	571.2	552.9	408.6	342.2	452.8	374.4	452.8	374.4
U.S. Total	74,267.3	66,604.4	13,189.8	9,598.3	1,757.9	1,666.7	79,882.0	79,808.5	14,077.3	13,694.1	2,541.5	2,544.4	185,715.8	173,916.4	9,690.6	7,105.5	22,880.4	16,703.8	24,638.3	18,370.5

Values are preliminary.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
Estimated distributed solar photovoltaic capacity is based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, June 2016 and 2015 (Megawatts)

Census Division and State	Natural Gas Fired Combined Cycle		Natural Gas Fired Combustion Turbine		Other Natural Gas		Coal		Petroleum Coke		Petroleum Liquids		Other Gases		Total Fossil Fuels	
	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015	June 2016	June 2015
New England	11,893.0	11,785.4	1,115.5	1,110.1	641.5	961.2	1,955.3	2,076.8	0.0	0.0	7,117.2	6,907.4	0.0	0.0	22,722.5	22,840.9
Connecticut	2,547.5	2,504.6	479.3	482.2	416.6	64.7	383.4	383.4	0.0	0.0	2,480.3	2,832.6	0.0	0.0	6,307.1	6,267.5
Maine	1,250.0	1,250.0	297.1	297.2	14.5	119.0	0.0	85.0	0.0	0.0	880.9	893.8	0.0	0.0	2,442.5	2,645.0
Massachusetts	5,098.6	5,067.6	335.3	326.9	198.0	765.1	1,038.0	1,074.5	0.0	0.0	3,141.1	2,566.3	0.0	0.0	9,811.0	9,800.4
New Hampshire	1,235.2	1,231.0	3.8	3.8	0.0	0.0	533.9	533.9	0.0	0.0	498.0	498.0	0.0	0.0	2,270.9	2,266.7
Rhode Island	1,761.7	1,732.2	0.0	0.0	12.4	12.4	0.0	0.0	0.0	0.0	17.2	17.2	0.0	0.0	1,791.3	1,761.8
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.7	99.5	0.0	0.0	99.7	99.5
Middle Atlantic	25,085.7	23,363.8	7,599.7	7,754.3	13,533.8	11,068.7	16,308.0	18,426.3	78.6	11.6	5,383.2	6,792.5	123.8	100.4	68,112.8	67,517.6
New Jersey	8,077.5	6,637.2	2,817.1	3,004.5	1,109.2	512.6	1,245.0	1,870.0	11.6	11.6	273.7	467.5	23.4	0.0	13,557.5	12,503.4
New York	8,095.7	8,252.6	3,105.2	3,072.4	9,522.0	8,760.5	1,749.6	2,489.9	0.0	0.0	3,484.2	3,945.3	0.0	0.0	25,956.7	26,520.7
Pennsylvania	8,912.5	8,474.0	1,677.4	1,677.4	2,902.6	1,795.6	13,313.4	14,066.4	67.0	0.0	1,625.3	2,379.7	100.4	100.4	28,598.6	28,493.5
East North Central	17,036.6	17,025.5	25,712.9	25,652.9	3,901.4	3,474.6	62,768.3	66,688.1	317.6	521.6	2,729.8	2,730.8	1,143.1	934.7	113,609.7	117,028.2
Illinois	3,543.0	3,543.0	10,164.4	10,183.3	278.2	233.0	14,644.6	15,254.1	0.0	0.0	685.7	682.2	117.7	117.7	29,433.6	30,013.3
Indiana	2,480.2	2,480.2	3,127.6	3,142.6	706.1	76.0	16,111.4	17,399.0	70.0	274.0	270.3	273.3	588.3	599.9	23,353.9	24,245.0
Michigan	4,296.5	4,292.5	3,631.1	3,543.8	2,465.8	2,849.1	9,451.0	10,848.4	47.2	47.2	530.5	525.0	250.0	0.0	20,672.1	22,106.0
Ohio	4,076.0	4,044.6	5,427.7	5,427.7	131.4	131.4	15,189.9	15,425.5	142.0	142.0	645.9	652.9	187.1	217.1	25,800.0	26,041.2
Wisconsin	2,640.9	2,665.2	3,362.1	3,355.5	319.9	185.1	7,371.4	7,761.1	58.4	58.4	597.4	597.4	0.0	0.0	14,350.1	14,622.7
West North Central	6,034.9	5,751.8	11,380.4	11,517.8	3,773.6	3,500.5	35,226.6	36,930.2	32.0	32.0	4,097.3	4,083.6	8.4	8.4	60,553.2	61,824.3
Iowa	1,125.8	1,131.0	1,105.6	1,104.4	535.4	548.3	5,719.1	6,240.0	32.0	32.0	1,014.6	1,007.4	0.0	0.0	9,532.5	10,063.1
Kansas	266.0	0.0	2,171.8	2,324.8	2,054.5	2,034.0	4,687.2	5,047.1	0.0	0.0	537.3	538.9	0.0	0.0	9,716.8	9,944.8
Minnesota	2,173.2	2,158.2	2,533.7	2,533.7	325.8	271.4	4,300.1	4,478.0	0.0	0.0	800.4	797.9	0.0	0.0	10,133.2	10,239.2
Missouri	1,837.3	1,830.0	3,395.2	3,379.4	349.9	230.8	11,932.0	12,337.6	0.0	0.0	1,144.7	1,139.1	0.0	0.0	18,659.1	18,916.9
Nebraska	342.6	342.6	1,151.5	1,152.9	499.3	407.3	3,929.0	4,167.9	0.0	0.0	313.7	313.7	0.0	0.0	6,236.1	6,384.4
North Dakota	0.0	0.0	328.0	328.0	0.0	0.0	4,184.2	4,184.6	0.0	0.0	64.6	64.6	8.4	8.4	4,585.2	4,585.6
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	475.0	475.0	0.0	0.0	222.0	222.0	0.0	0.0	1,690.3	1,690.3
South Atlantic	51,253.3	47,824.3	31,109.1	31,977.0	7,071.6	6,779.6	58,477.6	59,952.6	83.8	669.8	11,844.4	12,746.2	135.0	135.0	159,974.8	160,084.5
Delaware	1,512.0	1,505.0	311.0	311.0	877.4	876.0	410.0	410.0	0.0	0.0	114.1	114.4	135.0	135.0	3,359.5	3,351.4
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	27,505.6	25,545.6	7,480.4	8,400.0	3,027.7	2,736.3	10,234.0	10,085.0	0.0	586.0	5,844.9	6,563.9	0.0	0.0	54,092.6	53,916.8
Georgia	7,953.2	7,961.8	7,857.0	7,823.4	789.4	822.0	9,508.5	9,764.4	83.8	83.8	999.0	998.7	0.0	0.0	27,190.9	27,454.1
Maryland	250.0	250.0	1,581.0	1,580.9	1,415.8	1,489.8	4,712.0	4,722.0	0.0	0.0	1,597.9	1,650.5	0.0	0.0	9,556.7	9,693.2
North Carolina	4,766.0	4,738.5	6,049.7	6,031.7	0.0	0.0	10,802.8	10,800.8	0.0	0.0	402.8	402.4	0.0	0.0	22,021.3	21,973.4
South Carolina	2,409.0	2,409.0	2,855.6	2,855.6	296.0	270.8	5,547.0	5,575.5	0.0	0.0	525.4	661.4	0.0	0.0	11,633.0	11,772.3
Virginia	6,857.5	5,414.4	3,894.1	3,894.1	583.3	584.7	4,264.3	4,921.3	0.0	0.0	2,349.3	2,343.9	0.0	0.0	17,948.5	17,158.4
West Virginia	0.0	0.0	1,071.3	1,071.3	82.0	0.0	12,999.0	13,673.6	0.0	0.0	11.0	11.0	0.0	0.0	14,163.3	14,755.9
East South Central	19,040.8	19,040.4	13,003.3	12,887.5	4,017.0	2,744.1	30,572.4	34,586.7	0.0	0.0	152.0	150.8	99.8	99.8	66,885.3	69,509.3
Alabama	9,397.8	9,391.3	2,530.6	2,530.6	506.3	189.3	8,582.4	10,539.4	0.0	0.0	42.6	42.6	99.8	99.8	21,159.5	22,793.0
Kentucky	663.3	660.0	4,976.6	4,870.6	260.0	0.0	13,092.7	13,673.7	0.0	0.0	11.9	11.9	0.0	0.0	19,004.5	19,216.2
Mississippi	7,576.7	7,586.1	1,718.9	1,716.9	3,247.5	2,533.6	1,820.0	2,526.0	0.0	0.0	44.3	43.1	0.0	0.0	14,407.4	14,405.7
Tennessee	1,403.0	1,403.0	3,777.2	3,769.4	3.2	21.2	7,077.3	7,847.6	0.0	0.0	53.2	53.2	0.0	0.0	12,313.9	13,094.4
West South Central	59,066.1	59,504.5	13,287.9	12,774.8	35,007.6	35,952.0	36,432.5	37,929.9	959.3	903.2	181.3	185.4	659.8	330.8	145,594.5	147,580.6
Arkansas	4,602.9	4,597.3	725.8	725.8	816.3	810.7	5,122.4	5,124.5	0.0	0.0	12.2	12.2	0.0	0.0	11,279.6	11,270.5
Louisiana	7,616.4	7,548.1	2,358.1	2,649.8	9,162.8	8,933.5	2,855.1	3,418.6	895.5	892.6	45.5	49.1	407.4	25.2	23,340.8	23,516.9
Oklahoma	6,720.2	7,216.1	1,292.2	1,316.7	5,209.1	5,369.6	4,866.5	5,257.3	0.0	0.0	74.4	74.4	0.0	0.0	18,162.4	19,234.1
Texas	40,126.6	40,143.0	8,911.8	8,082.5	19,819.4	20,838.2	23,588.5	24,129.5	63.8	10.6	49.2	49.7	252.4	305.6	92,811.7	93,559.1
Mountain	22,487.3	21,919.4	8,926.6	8,921.5	3,198.6	3,220.4	28,942.6	29,372.0	52.0	52.0	370.8	370.8	109.9	87.1	64,087.8	63,943.2
Arizona	9,866.7	9,868.7	2,367.6	2,367.6	1,147.6	1,177.6	5,910.0	6,170.0	0.0	0.0	90.5	90.5	0.0	0.0	19,382.4	19,674.4
Colorado	3,240.5	2,651.7	2,535.3	2,535.3	329.0	349.0	5,089.8	5,281.8	0.0	0.0	168.4	168.4	0.0	0.0	11,363.0	10,986.2
Idaho	568.5	568.5	562.1	557.5	4.3	4.3	17.2	17.2	0.0	0.0	5.4	5.4	0.0	0.0	1,157.5	1,152.9
Montana	0.0	0.0	321.6	362.1	72.2	54.0	2,293.1	2,293.1	52.0	52.0	0.0	0.0	1.5	1.5	2,740.4	2,762.7
Nevada	5,418.6	5,418.6	1,385.6	1,385.6	451.1	451.1	997.4	997.4	0.0	0.0	6.0	6.0	0.0	0.0	8,258.7	8,258.7
New Mexico	1,469.0	1,487.9	1,080.6	1,039.6	849.4	849.4	3,471.0	3,471.0	0.0	0.0	66.9	66.9	0.0	0.0	6,936.9	6,914.8
Utah	1,830.0	1,830.0	520.2	520.2	330.4	322.4	4,754.0	4,754.0	0.0	0.0	27.8	27.8	0.0	0.0	7,462.4	7,454.4
Wyoming	94.0	94.0	153.6	153.6	14.6	12.6	6,410.1	6,387.5	0.0	0.0	5.8	5.8	108.4	85.6	6,786.5	6,739.1
Pacific Contiguous	25,161.4	25,309.9	11,457.1	11,372.8	11,890.1	12,628.8	2,015.0	2,015.0	17.0	0.0	422.3	410.7	209.3	211.7	51,172.2	51,948.9
California	19,561.3	19,624.4	10,561.9	10,597.8	11,638.1	12,377.0	90.0	90.0	17.0	0.0	407.1	395.5	209.3	211.7	42,484.7	43,296.4
Oregon	2,929.6	2,916.6	133.8	133.8	224.4	224.2	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	3,872.8	3,859.6
Washington	2,670.5	2,768.9	761.4	641.2	27.6	27.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,814.7	4,792.9
Pacific Noncontiguous	418.0	561.2	654.3	527.8	175.0	175.0	333.8	286.1	0.0	0.0	2,568.7	2,575.9	9.6	6.4	4,159.4	4,132.4
Alaska	418.0	561.2	654.3	527.8	175.0	175.0	153.8	106.1	0.0	0.0	701.1	690.3	0.0	0.0	2,102.2	2,060.4
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,867.6	1,885.6	9.6	6.4	2,057.2	2,072.0
U.S. Total	237,477.1	232,086.2	124,246.8	124,496.5	83,210.2	80,504.9	273,032.1	288,263.7	1,540.3	2,190.2	34,867.0	36,954.1	2,498.7	1,914.3	756,872.2	766,409.9

Values are preliminary.

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

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

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2016

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
2016	1	59247	Bearford Solar II LLC	IPP	Bearford Solar II	NC	59488	BEARF	4.9	Solar Photovoltaic	SUN	PV
2016	1	58562	Blueberry One, LLC	IPP	Blueberry One	NC	58605	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	1	59858	Chei Solar LLC	IPP	Chei Solar	NC	59508	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	1	7977	City of Hamilton - (OH)	Electric Utility	Meldahl Hydroelectric Project	KY	56872	2	35.0	Conventional Hydroelectric	WAT	HY
2016	1	59693	Cline Solar Farm LLC	IPP	Cline Solar Farm, LLC	NC	59929	NB007	4.9	Solar Photovoltaic	SUN	PV
2016	1	59692	Coats Solar Farm LLC	IPP	Coats Solar Farm, LLC	NC	59937	NB006	4.9	Solar Photovoltaic	SUN	PV
2016	1	5109	DTE Electric Company	Electric Utility	Greenwood Solar Farm	MI	60019	1	1.9	Solar Photovoltaic	SUN	PV
2016	1	57170	EDF Renewable Asset Holdings, Inc.	IPP	Milo Wind Project LLC	NM	59838	GEN1	50.0	Onshore Wind Turbine	WND	WT
2016	1	58873	Green Energy Team LLC	IPP	Biomass to Energy Facility, Kauai	HI	59035	MKA1	8.3	Other Waste Biomass	AB	ST
2016	1	59835	Green Farm Solar LLC	IPP	Green Farm	NC	59148	GREEN	5.0	Solar Photovoltaic	SUN	PV
2016	1	59853	Happy Solar LLC	IPP	Happy Solar	NC	59512	PV1	4.0	Solar Photovoltaic	SUN	PV
2016	1	9267	Hoosier Energy R E C, Inc	Electric Utility	New Castle Solar RES	IN	59981	PV1	1.1	Solar Photovoltaic	SUN	PV
2016	1	9324	Indiana Michigan Power Co	Electric Utility	Deer Creek PV	IN	59855	DCPV1	2.5	Solar Photovoltaic	SUN	PV
2016	1	59285	Innovative Solar 6, LLC	IPP	Innovative Solar 6	NC	59542	IS6	3.6	Solar Photovoltaic	SUN	PV
2016	1	59447	Innovative Solar 64, LLC	IPP	Innovative Solar 64	NC	59677	IS064	4.9	Solar Photovoltaic	SUN	PV
2016	1	59851	Jacob Solar LLC	IPP	Jacob Solar	NC	59503	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	1	58891	Jericho Power LLC	IPP	Jericho Power	NH	59070	WT 1	12.1	Onshore Wind Turbine	WND	WT
2016	1	59850	Kenneth Solar LLC	IPP	Kenneth Solar	NC	59507	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	1	58679	Kirkwall Holdings, LLC	IPP	Kirkwall Holdings	NC	58791	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	1	59245	Lanier Solar	IPP	Lanier Solar	NC	59486	LANIE	4.9	Solar Photovoltaic	SUN	PV
2016	1	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK7	41.9	Solar Photovoltaic	SUN	PV
2016	1	59691	Meadowbrook Solar Farm LLC	IPP	Meadowbrook Solar Farm	NC	59936	NB008	4.9	Solar Photovoltaic	SUN	PV
2016	1	12341	MidAmerican Energy Co	Electric Utility	Adams Wind	IA	59637	ADWF4	46.9	Onshore Wind Turbine	WND	WT
2016	1	59857	Murdock Solar LLC	IPP	Murdock Solar	NC	59509	PV1	4.0	Solar Photovoltaic	SUN	PV
2016	1	59262	NRG Solar Oasis, LLC	IPP	NRG Solar Oasis LLC	CA	59528	OASIS	20.0	Solar Photovoltaic	SUN	PV
2016	1	59899	OEE XVII, LLC	Commercial	Harpster Wind	OH	60126	H1	1.5	Onshore Wind Turbine	WND	WT
2016	1	56545	Pattern Operators LP	IPP	Fowler Ridge IV Wind Farm LLC	IN	59547	1	150.0	Onshore Wind Turbine	WND	WT
2016	1	59514	River Mountains Solar, LLC	IPP	River Mountains Solar	NV	59747	1	14.4	Solar Photovoltaic	SUN	PV
2016	1	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK4	35.7	Solar Photovoltaic	SUN	PV
2016	1	59836	Simons Solar Farm LLC	IPP	Simons Farm	NC	59149	SIMON	5.0	Solar Photovoltaic	SUN	PV
2016	1	58674	Sonne One, LLC	IPP	Sonne One	NC	58782	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	1	58661	Sustainable Power Group, LLC	IPP	SEPV 18	CA	59730	SPV18	2.0	Solar Photovoltaic	SUN	PV
2016	1	59412	Tarboro Solar LLC	IPP	Tarboro Solar	NC	59648	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	1	59690	Vance Solar Farm LLC	IPP	Vance Solar Farm, LLC	NC	59928	NB007	4.9	Solar Photovoltaic	SUN	PV
2016	1	56948	Waverly Wind Farm LLC	IPP	Waverly Wind Farm LLC	KS	57614	GEN1	199.0	Onshore Wind Turbine	WND	WT
2016	2	59841	70SM1 8ME LLC	IPP	Calipatria Solar Farm	CA	59088	GEN 1	20.0	Solar Photovoltaic	SUN	PV
2016	2	40577	American Mun Power-Ohio, Inc	Electric Utility	Willow Island Hydroelectric Plant	WV	57401	WIG2	22.0	Conventional Hydroelectric	WAT	HY
2016	2	7977	City of Hamilton - (OH)	Electric Utility	Meldahl Hydroelectric Project	KY	56872	1	35.0	Conventional Hydroelectric	WAT	HY
2016	2	10908	City of Lenox - (IA)	Electric Utility	Lenox	IA	1158	5	1.8	Petroleum Liquids	DFO	IC
2016	2	56769	Consolidated Edison Development Inc.	IPP	Corcoran Solar 3	CA	59900	C3CA	20.0	Solar Photovoltaic	SUN	PV
2016	2	57365	Consolidated Edison Solutions Inc	IPP	CES Cherry Hill Solar	NJ	60201	CHNJ	1.2	Solar Photovoltaic	SUN	PV
2016	2	59784	Innovative Solar 63, LLC	IPP	Innovative Solar 63, LLC	NC	60053	FLS1	4.9	Solar Photovoltaic	SUN	PV
2016	2	59937	Lemoore PV1, LLC	IPP	Lemoore 1	CA	60142	LEPV1	1.5	Solar Photovoltaic	SUN	PV
2016	2	59791	Lindberg Field Solar I LLC	IPP	Lindberg FIeld Solar	CA	60060	SDIA2	2.1	Solar Photovoltaic	SUN	PV
2016	2	59996	Long Farm 46 Solar, LLC	IPP	Long Farm 46 Solar, LLC	NC	60208	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	2	17470	PUD 1 of Snohomish County	Electric Utility	MESA 1	WA	60016	B	1.0	Batteries	MWH	BA
2016	2	57313	SolarCity Corporation	IPP	Onondaga County - Metro Water Board	NY	60097	PV1	1.0	Solar Photovoltaic	SUN	PV
2016	2	57313	SolarCity Corporation	IPP	Town of Needham VNEM	MA	60110	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	2	57313	SolarCity Corporation	IPP	Williamsburg Solar LLC VNEM	MA	60111	PV1	2.2	Solar Photovoltaic	SUN	PV
2016	2	17650	Southern Power Co	IPP	Butler Solar Farm 20	GA	59891	1	20.0	Solar Photovoltaic	SUN	PV
2016	2	17650	Southern Power Co	IPP	Stateline Solar	CA	58646	STL4	37.9	Solar Photovoltaic	SUN	PV
2016	2	59788	Steel Bridge Solar. LLC	IPP	Steel Bridge Solar, LLC	OR	60057	STEEL	2.3	Solar Photovoltaic	SUN	PV
2016	2	59885	UIL Distributed Resources, LLC	IPP	UDR Glastonbury Fuel Cell	CT	60109	UDRFC	2.5	Other Natural Gas	NG	FC
2016	2	59969	Whitethorn Solar LLC	IPP	Whitethorn Solar LLC	CA	60193	GEN1	3.3	Solar Photovoltaic	SUN	PV
2016	2	58984	Winton Solar LLC	IPP	Winton Solar	NC	59177	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	3	40577	American Mun Power-Ohio, Inc	Electric Utility	Cannelton Hydroelectric Plant	KY	57399	CG2	29.3	Conventional Hydroelectric	WAT	HY
2016	3	59789	Avalon Solar Partners II, LLC	IPP	Avalon Solar II	AZ	60062	ASII	16.0	Solar Photovoltaic	SUN	PV
2016	3	59842	Blythe Solar 110, LLC	IPP	Blythe Solar 110, LLC	CA	60093	BLCK1	38.7	Solar Photovoltaic	SUN	PV
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	10	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	11	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	5	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	6	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	7	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	8	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	9	8.6	Natural Gas Internal Combustion Engine	NG	IC
2016	3	20069	City of Wamego - (KS)	Electric Utility	Wamego	KS	1328	10	2.9	Natural Gas Internal Combustion Engine	NG	IC
2016	3	6455	Duke Energy Florida, Inc	Electric Utility	Osceola Solar Facility	FL	59954	XXXXX	3.8	Solar Photovoltaic	SUN	PV
2016	3	3046	Duke Energy Progress - (NC)	Electric Utility	Elm City Solar Facility	NC	59164	NSC 1	17.6	Solar Photovoltaic	SUN	PV
2016	3	57249	EPP Renewable Energy	IPP	Nashua Plant	NH	55006	UNT3	1.5	Landfill Gas	LFG	IC
2016	3	59735	Enerparc CA2, LLC	IPP	Enerparc CA2, LLC	CA	59978	ECA22	1.5	Solar Photovoltaic	SUN	PV
2016	3	59402	Garysburg Solar LLC	IPP	Garysburg Solar	NC	59641	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	3	7353	Golden Valley Elec Assn Inc	Electric Utility	Healy	AK	6288	2	50.0	Conventional Steam Coal	LIG	ST
2016	3	59209	Half Moon Ventures, LLC	IPP	HMV Minster Energy Storage System	OH	60299	MIN02	7.0	Batteries	MWH	BA
2016	3	59971	Kenansville Solar 2 LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV1	0.5	Solar Photovoltaic	SUN	PV
2016	3	59971	Kenansville Solar 2 LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV2	0.5	Solar Photovoltaic	SUN	PV
2016	3	59971	Kenansville Solar 2 LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV3	0.5	Solar Photovoltaic	SUN	PV
2016	3	59971	Kenansville Solar 2 LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV4	0.5	Solar Photovoltaic	SUN	PV
2016	3	58773	Kingfisher Wind LLC	IPP	Kingfisher Wind LLC	OK	58902	KNG1	298.0	Onshore Wind Turbine	WND	WT
2016	3	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	1	41.9	Solar Photovoltaic	SUN	PV
2016	3	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN3	1.0	Natural Gas Internal Combustion Engine	NG	IC
2016	3	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN4	0.3	Natural Gas Internal Combustion Engine	NG	IC
2016	3	17650	Southern Power Co	IPP	Pawpaw Solar Plant	GA	59894	1	30.0	Solar Photovoltaic	SUN	PV
2016	3	59139	SunEdison LLC	IPP	SunE- E Philadelphia Ontario	CA	59916	12307	1.0	Solar Photovoltaic	SUN	PV
2016	3	58661	Sustainable Power Group, LLC	IPP	Latigo Wind Park	UT	59965	LTIGO	62.1	Onshore Wind Turbine	WND	WT
2016	3	19876	Virginia Electric & Power Co	Electric Utility	Philip Morris	VA	59911	1	2.0	Solar Photovoltaic	SUN	PV
2016	4	59912	Amethyst Solar LLC	IPP	Amethyst Solar	NC	58730	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	4	59910	Audrey Solar LLC	IPP	Audrey Solar	NC	58732	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 1	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 2	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 3	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 5	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 6	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 7	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 8	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 9	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN10	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN11	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN12	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN4	0.2	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN1	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN10	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN11	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN12	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN2	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN3	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN4	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN5	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN6	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN7	0.1	Conventional Hydroelectric	WAT	HY
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN8	0.1	Conventional Hydroelectric	WAT	HY

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2016

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
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN9	0.1	Conventional Hydroelectric	WAT	HY
2016	4	59842	Blythe Solar 110, LLC	IPP	Blythe Solar 110, LLC	CA	60093	BLCK2	36.3	Solar Photovoltaic	SUN	PV
2016	4	59842	Blythe Solar 110, LLC	IPP	Blythe Solar 110, LLC	CA	60093	BLCK3	34.8	Solar Photovoltaic	SUN	PV
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN01	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN02	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN03	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN04	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN05	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN06	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN07	3.4	Landfill Gas	LFG	IC
2016	4	57260	CSOLAR IV West LLC	IPP	Imperial Solar Energy Center West	CA	57491	56819	148.7	Solar Photovoltaic	SUN	PV
2016	4	7977	City of Hamilton - (OH)	Electric Utility	Meldahl Hydroelectric Project	KY	56872	3	35.0	Conventional Hydroelectric	WAT	HY
2016	4	4254	Consumers Energy Co	Electric Utility	Grand Valley Solar Gardens	MI	60118	1	3.0	Solar Photovoltaic	SUN	PV
2016	4	59745	First Solar Asset Management	IPP	Kingbird A Solar LLC	CA	59868	GEN01	20.0	Solar Photovoltaic	SUN	PV
2016	4	59745	First Solar Asset Management	IPP	Kingbird B Solar, LLC	CA	60091	GEN01	20.0	Solar Photovoltaic	SUN	PV
2016	4	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5A	1,260.0	Natural Gas Fired Combined Cycle	NG	CT
2016	4	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5B		Natural Gas Fired Combined Cycle	NG	CT
2016	4	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5C		Natural Gas Fired Combined Cycle	NG	CT
2016	4	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5ST		Natural Gas Fired Combined Cycle	NG	CA
2016	4	59403	Gaston Solar LLC	IPP	Gaston Solar	NC	59642	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	4	59462	Heelstone Energy Holdings, LLC	IPP	Crestwood Solar Center LLC	NC	59914	CREST	5.0	Solar Photovoltaic	SUN	PV
2016	4	49893	Invenergy Services LLC	IPP	Prairie Breeze III	NE	60314	GEN1	35.8	Onshore Wind Turbine	WND	WT
2016	4	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK2	21.0	Solar Photovoltaic	SUN	PV
2016	4	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	10	9.2	Natural Gas Internal Combustion Engine	NG	IC
2016	4	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	11	9.2	Natural Gas Internal Combustion Engine	NG	IC
2016	4	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	12	9.2	Natural Gas Internal Combustion Engine	NG	IC
2016	4	59911	Milo Solar LLC	IPP	Milo Solar	NC	58739	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	4	59913	Minnie Solar LLC	IPP	Minnie Solar	NC	58740	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	4	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	2	9.1	Natural Gas Internal Combustion Engine	NG	IC
2016	4	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	3	9.1	Natural Gas Internal Combustion Engine	NG	IC
2016	4	59916	Owen Solar LLC	IPP	Owen Solar	NC	58742	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	1	1.6	Landfill Gas	LFG	IC
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	2	1.6	Landfill Gas	LFG	IC
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	3	1.6	Landfill Gas	LFG	IC
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	4	1.6	Landfill Gas	LFG	IC
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	5	1.6	Landfill Gas	LFG	IC
2016	4	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK5	35.0	Solar Photovoltaic	SUN	PV
2016	4	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK6	36.6	Solar Photovoltaic	SUN	PV
2016	4	57313	SolarCity Corporation	IPP	Genentech-Oceanside	CA	60231	PV1	4.5	Solar Photovoltaic	SUN	PV
2016	4	59914	Sophie Solar LLC	IPP	Sophie Solar	NC	58745	PV1	4.5	Solar Photovoltaic	SUN	PV
2016	4	17609	Southern California Edison Co	Electric Utility	Tehachapi Energy Storage Project	CA	59661	TSP1	8.0	Batteries	MWH	BA
2016	4	17650	Southern Power Co	IPP	Grant Wind, LLC	OK	60013	GRANT	151.8	Onshore Wind Turbine	WND	WT
2016	4	17650	Southern Power Co	IPP	Stateline Solar	CA	58646	STL6	37.9	Solar Photovoltaic	SUN	PV
2016	4	59915	Star Solar LLC	IPP	Star Solar	NC	58746	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	4	58661	Sustainable Power Group, LLC	Commercial	Southbridge Solar	MA	60278	SBRDG	1.9	Solar Photovoltaic	SUN	PV
2016	4	19497	United Illuminating Co	Electric Utility	UI RCP Bridgeport Seaside	CT	60054	BPPV	2.2	Solar Photovoltaic	SUN	PV
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT01	263.9	Natural Gas Fired Combined Cycle	NG	CT
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT02	263.9	Natural Gas Fired Combined Cycle	NG	CT
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT03	263.9	Natural Gas Fired Combined Cycle	NG	CT
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	ST01	579.4	Natural Gas Fired Combined Cycle	NG	CA
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Western Branch High School	VA	59904	1	1.0	Solar Photovoltaic	SUN	PV
2016	4	58982	Woodland Solar LLC	IPP	Woodland Solar	NC	59175	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	4	60059	ZGlobal Inc	IPP	Castor Solar	CA	60277	CASTR	1.5	Solar Photovoltaic	SUN	PV
2016	5	59359	BHE Renewables, LLC	IPP	Marshall Wind Farm	KS	59084	RPMA	73.8	Onshore Wind Turbine	WND	WT
2016	5	60157	Battleboro Farm, LLC	IPP	Battleboro Farm	NC	60369	BFPV	5.2	Solar Photovoltaic	SUN	PV
2016	5	58468	Dominion Renewable Energy	IPP	Marin Carport	CA	59703	1	1.0	Solar Photovoltaic	SUN	PV
2016	5	56215	E ON Climate Renewables N America LLC	IPP	Colbec's Corner, LLC	TX	59068	GVII	200.0	Onshore Wind Turbine	WND	WT
2016	5	58135	Ecos Energy LLC	IPP	Sudbury Solar	VT	60344	SUD	2.0	Solar Photovoltaic	SUN	PV
2016	5	5701	El Paso Electric Co	Electric Utility	Montana Power Station	TX	58562	GT-3	100.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	5860	Empire District Electric Co	Electric Utility	Riverton	KS	1239	12-2	117.0	Natural Gas Fired Combined Cycle	NG	CA
2016	5	6452	Florida Power & Light Co	Electric Utility	Daytona International Speedway Solar	FL	60005	1	0.8	Solar Photovoltaic	SUN	PV
2016	5	6452	Florida Power & Light Co	Electric Utility	FIU Solar	FL	60006	1	0.8	Solar Photovoltaic	SUN	PV
2016	5	7349	Golden Spread Electric Cooperative, Inc	Electric Utility	Elk Station	TX	58835	ELK2	189.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	7349	Golden Spread Electric Cooperative, Inc	Electric Utility	Elk Station	TX	58835	ELK3	189.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	60187	Granger Energy of Morgantown	IPP	Granger Energy of Morgantown	PA	60388	GEMT	1.6	Landfill Gas	LFG	IC
2016	5	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	SOLAR	10.0	Solar Photovoltaic	SUN	PV
2016	5	56990	NJR Clean Energy Ventures Corporation	IPP	East Amwell	NJ	60327	AMWEL	1.8	Solar Photovoltaic	SUN	PV
2016	5	56990	NJR Clean Energy Ventures Corporation	IPP	Junction Road	NJ	60265	JUNCT	4.4	Solar Photovoltaic	SUN	PV
2016	5	56990	NJR Clean Energy Ventures Corporation	IPP	Sharon Station	NJ	60267	SHRN1	2.7	Solar Photovoltaic	SUN	PV
2016	5	59893	Northern Water Hydropower Enterprise	Commercial	Granby Hydro	CO	60119	GEN1	1.2	Conventional Hydroelectric	WAT	HY
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG1	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG10	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG2	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG3	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG4	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG5	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG6	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG7	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG8	0.6	Petroleum Liquids	DFO	IC
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG9	0.6	Petroleum Liquids	DFO	IC
2016	5	59766	SR Jenkins, LLC	IPP	SR Jenkins Ft Lupton	CO	60023	FTLUP	13.0	Solar Photovoltaic	SUN	PV
2016	5	58544	Sierra Nevada Brewing Co	Industrial	Sierra Nevada Brewing Co	CA	58585	COGN	1.7	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK7	35.0	Solar Photovoltaic	SUN	PV
2016	5	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT1	8.3	Natural Gas Internal Combustion Engine	NG	IC
2016	5	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT2	8.3	Natural Gas Internal Combustion Engine	NG	IC
2016	5	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT3	8.3	Natural Gas Internal Combustion Engine	NG	IC
2016	5	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT4	8.3	Natural Gas Internal Combustion Engine	NG	IC
2016	5	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT5	8.3	Natural Gas Internal Combustion Engine	NG	IC
2016	5	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT6	8.3	Natural Gas Internal Combustion Engine	NG	IC
2016	5	60117	SunShare	IPP	Jeffco Community Solar Gardens, LLC	CO	60320	SSCO1	1.2	Solar Photovoltaic	SUN	PV
2016	5	58661	Sustainable Power Group, LLC	IPP	Central Antelope Dry Ranch C	CA	59963	CADRC	20.0	Solar Photovoltaic	SUN	PV
2016	5	59570	TWE Kelford Solar Project, LLC	IPP	Kelford	NC	59796	FLS1	4.7	Solar Photovoltaic	SUN	PV
2016	5	60067	Westside Assets LLC	IPP	Westside Solar Power PV1	CA	60275	WSPV1	2.0	Solar Photovoltaic	SUN	PV
2016	6	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	5A	0.8	Petroleum Liquids	DFO	IC
2016	6	40577	American Mun Power-Ohio, Inc	Electric Utility	Cannelton Hydroelectric Plant	KY	57399	CG3	29.3	Conventional Hydroelectric	WAT	HY
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC
2016	6	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC
2016	6	58695	Coronal Development Services	IPP	Holdrege Solar Center	NE	59713	HDSC	4.0	Solar Photovoltaic	SUN	PV
2016	6	59263	Fresh Air Energy XVIII, LLC	IPP	Meadows PV 1	NC	59513	MEAD1	20.0	Solar Photovoltaic	SUN	PV
2016	6	59776	Frontier Solar, LLC	IPP	Frontier Solar LLC	CA	60039	FTRS	20.0	Solar Photovoltaic	SUN	PV
2016	6	9273	Indianapolis Power & Light Co	Electric Utility	Harding Street	IN	990	BAT1	20.0	Batteries	MWH	BA
2016	6	49893	Invenergy Services LLC	IPP	Gunsight Mountain Wind Energy LLC	TX	56776	1	120.0	Onshore Wind Turbine	WND	WT
2016	6	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Greenwood (MO)	MO	6074	5	3.0	Solar Photovoltaic	SUN	PV
2016	6	26253	Louisiana Energy & Power Authority	Electric Utility	LEPA Unit No. 1	LA	58478	LEPA1	59.0	Natural Gas Fired Combined Cycle	NG	CC
2016	6	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK3	39.6	Solar Photovoltaic	SUN	PV
2016	6	12397	Metropolitan Water District of S CA	Electric Utility	Weymouth Solar Plant	CA	60255	1	2.0	Solar Photovoltaic	SUN	PV
2016	6	12397	Metropolitan Water District of S CA	Electric Utility	Weymouth Solar Plant	CA	60255	2	1.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2016

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
2016	6	58417	Panda Liberty O&M LLC	IPP	Panda Liberty Generation Plant	PA	58420	GEN1	376.0	Natural Gas Fired Combined Cycle	NG	CS
2016	6	16179	Rochelle Municipal Utilities	Electric Utility	South Main Street	IL	961	16	1.8	Petroleum Liquids	DFO	IC
2016	6	16179	Rochelle Municipal Utilities	Electric Utility	South Main Street	IL	961	17	1.8	Petroleum Liquids	DFO	IC
2016	6	16179	Rochelle Municipal Utilities	Electric Utility	South Main Street	IL	961	18	1.8	Petroleum Liquids	DFO	IC
2016	6	59404	Seaboard Solar LLC	IPP	Seaboard Solar LLC	NC	59643	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	6	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK8	16.2	Solar Photovoltaic	SUN	PV
2016	6	60206	Solar Star California XL, LLC	IPP	RCWD PV Project	CA	60426	RCWD	1.9	Solar Photovoltaic	SUN	PV
2016	6	59837	South Plains Wind Energy II, LLC	IPP	South Plains II	TX	60087	SPII	300.0	Onshore Wind Turbine	WND	WT
2016	6	17650	Southern Power Co	IPP	Stateline Solar	CA	58646	STL6	37.9	Solar Photovoltaic	SUN	PV
2016	6	58661	Sustainable Power Group, LLC	IPP	Leavenworth Greenworks LLC	NY	59276	LEAVG	9.5	Solar Photovoltaic	SUN	PV
2016	6	58661	Sustainable Power Group, LLC	IPP	SEPV Mojave West	CA	59740	SPVMW	20.0	Solar Photovoltaic	SUN	PV
2016	6	59328	Tart Farm, LLC	IPP	Tart Farm	NC	59583	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	6	18642	Tennessee Valley Authority	Electric Utility	Watts Bar Nuclear Plant	TN	7722	2	1,122.0	Nuclear	NUC	ST
2016	6	20910	Wolverine Power Supply Coop	Electric Utility	Alpine Power Plant	MI	59926	AI1	202.6	Natural Gas Fired Combustion Turbine	NG	GT

NOTES:

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

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, 2016

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
2016	1	9231	City of Independence - (MO)	Electric Utility	Missouri City	MO	2171	1	19.0	Conventional Steam Coal	BIT	ST
2016	1	9231	City of Independence - (MO)	Electric Utility	Missouri City	MO	2171	2	19.0	Conventional Steam Coal	BIT	ST
2016	2	3900	City of Coggon - (IA)	Electric Utility	Coggon	IA	1132	IC1	0.6	Petroleum Liquids	DFO	IC
2016	2	11142	City of Logansport - (IN)	Electric Utility	Logansport	IN	1032	4	16.5	Conventional Steam Coal	BIT	ST
2016	2	11142	City of Logansport - (IN)	Electric Utility	Logansport	IN	1032	5	22.0	Conventional Steam Coal	BIT	ST
2016	2	11142	City of Logansport - (IN)	Electric Utility	Logansport	IN	1032	6	15.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	2	17872	City of St Francis - (KS)	Electric Utility	St Francis	KS	1321	3	0.8	Petroleum Liquids	DFO	IC
2016	2	4161	Constellation Power Source Gen	IPP	Perryman	MD	1556	GT2	51.0	Petroleum Liquids	DFO	GT
2016	3	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P1	10.0	Petroleum Liquids	DFO	GT
2016	3	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P2	10.0	Petroleum Liquids	DFO	GT
2016	3	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P4	59.0	Petroleum Liquids	DFO	GT
2016	3	7801	Gulf Power Co	Electric Utility	Lansing Smith	FL	643	1	162.0	Conventional Steam Coal	BIT	ST
2016	3	7801	Gulf Power Co	Electric Utility	Lansing Smith	FL	643	2	195.0	Conventional Steam Coal	BIT	ST
2016	3	13168	NRG Huntley Operations Inc	IPP	C R Huntley Generating Station	NY	2549	67	190.0	Conventional Steam Coal	SUB	ST
2016	3	13168	NRG Huntley Operations Inc	IPP	C R Huntley Generating Station	NY	2549	S68	190.0	Conventional Steam Coal	SUB	ST
2016	3	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	87.0	Conventional Steam Coal	SUB	ST
2016	4	4045	City of Columbia - (MO)	Electric Utility	Columbia (MO)	MO	2123	5	16.5	Conventional Steam Coal	BIT	ST
2016	4	4254	Consumers Energy Co	Electric Utility	B C Cobb	MI	1695	4	156.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	B C Cobb	MI	1695	5	156.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J C Weadock	MI	1720	7	152.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J C Weadock	MI	1720	8	151.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J R Whiting	MI	1723	1	102.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J R Whiting	MI	1723	2	95.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J R Whiting	MI	1723	3	122.0	Conventional Steam Coal	SUB	ST
2016	4	5109	DTE Electric Company	Electric Utility	Trenton Channel	MI	1745	7	110.0	Conventional Steam Coal	SUB	ST
2016	4	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	2	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	3	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	4	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	5	95.0	Conventional Steam Coal	BIT	ST
2016	4	5580	East Kentucky Power Coop, Inc	Electric Utility	Dale	KY	1385	3	74.0	Conventional Steam Coal	BIT	ST
2016	4	5580	East Kentucky Power Coop, Inc	Electric Utility	Dale	KY	1385	4	75.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	3	40.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	4	56.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	5	62.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	6	99.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	IC1	3.0	Petroleum Liquids	DFO	IC
2016	4	12341	MidAmerican Energy Co	Electric Utility	George Neal North	IA	1091	1	134.3	Conventional Steam Coal	SUB	ST
2016	4	12341	MidAmerican Energy Co	Electric Utility	George Neal North	IA	1091	2	283.7	Conventional Steam Coal	SUB	ST
2016	4	26840	Port Townsend Paper Co	Industrial	Port Townsend Paper	WA	50544	GEN4	3.0	Wood/Wood Waste Biomass	BLQ	ST
2016	4	15474	Public Service Co of Oklahoma	Electric Utility	Northeastern	OK	2963	4	460.0	Conventional Steam Coal	SUB	ST
2016	4	17698	Southwestern Electric Power Co	Electric Utility	Welsh	TX	6139	2	528.0	Conventional Steam Coal	SUB	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	1	178.0	Conventional Steam Coal	BIT	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	2	178.0	Conventional Steam Coal	BIT	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	3	178.0	Conventional Steam Coal	BIT	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	4	178.0	Conventional Steam Coal	BIT	ST
2016	4	20847	Wisconsin Electric Power Co	Electric Utility	Milwaukee County	WI	7549	1	7.0	Conventional Steam Coal	SUB	ST
2016	5	4161	Constellation Power Source Gen	IPP	Riverside (MD)	MD	1559	4	74.0	Natural Gas Steam Turbine	NG	ST
2016	5	5517	Dynegy Midwest Generation Inc	IPP	Wood River	IL	898	4	89.5	Conventional Steam Coal	SUB	ST
2016	5	5517	Dynegy Midwest Generation Inc	IPP	Wood River	IL	898	5	375.5	Conventional Steam Coal	SUB	ST
2016	5	12807	Michigan South Central Pwr Agy	Electric Utility	Endicott Station	MI	4259	1	55.0	Conventional Steam Coal	BIT	ST
2016	5	14165	NRG Power Midwest LP	IPP	Avon Lake	OH	2836	7	70.0	Conventional Steam Coal	BIT	ST
2016	5	56217	Portsmouth Operating Services LLC	IPP	Portsmouth Genco LLC	VA	10071	GEN1	57.5	Conventional Steam Coal	BIT	ST
2016	5	56217	Portsmouth Operating Services LLC	IPP	Portsmouth Genco LLC	VA	10071	GEN2	57.5	Conventional Steam Coal	BIT	ST
2016	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	IC1	2.0	Petroleum Liquids	DFO	IC
2016	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	IC2	2.0	Petroleum Liquids	DFO	IC
2016	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	IC3	2.0	Petroleum Liquids	DFO	IC
2016	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	IC4	2.0	Petroleum Liquids	DFO	IC
2016	5	7726	Sharp Grossmont Hospital	Commercial	Grossmont Hospital	CA	10115	GEN1	0.8	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	7726	Sharp Grossmont Hospital	Commercial	Grossmont Hospital	CA	10115	GEN2	0.8	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	40211	Wabash Valley Power Assn, Inc	Electric Utility	Wabash Valley Power IGCC	IN	57842	1	85.0	Petroleum Coke	SGP	CA
2016	6	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	5	0.5	Petroleum Liquids	DFO	IC
2016	6	1009	City of Austin - (MN)	Electric Utility	Austin Northeast	MN	1961	1	28.0	Natural Gas Steam Turbine	NG	ST
2016	6	8198	City of Harrisonburg - (VA)	Electric Utility	Harrisonburg Power Plant	VA	56006	ST-1	2.7	Natural Gas Steam Turbine	NG	ST
2016	6	8723	City of Holland	Electric Utility	James De Young	MI	1830	3	10.5	Conventional Steam Coal	BIT	ST
2016	6	4329	Copper Valley Elec Assn, Inc	Electric Utility	Valdez	AK	6306	1	0.5	Petroleum Liquids	DFO	IC
2016	6	4329	Copper Valley Elec Assn, Inc	Electric Utility	Valdez	AK	6306	2	0.5	Petroleum Liquids	DFO	IC
2016	6	4329	Copper Valley Elec Assn, Inc	Electric Utility	Valdez	AK	6306	3	0.5	Petroleum Liquids	DFO	IC
2016	6	5109	DTE Electric Company	Electric Utility	River Rouge	MI	1740	2	251.0	Conventional Steam Coal	SUB	ST
2016	6	5701	El Paso Electric Co	Electric Utility	Hueco Mountain Wind Ranch	TX	55578	EXIS	1.3	Onshore Wind Turbine	WND	WT
2016	6	50128	Georgia-Pacific Consr Ops LLC-Palatka	Industrial	Georgia-Pacific Palatka Operations	FL	10611	GEN2	7.0	Natural Gas Steam Turbine	NG	ST
2016	6	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN3	0.4	Other Waste Biomass	OBG	IC
2016	6	18125	Stillwater Utilities Authority	Electric Utility	Boomer Lake Station	OK	3000	2	13.0	Natural Gas Steam Turbine	NG	ST

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a signifciant portion of capacity for some technologies such as solar photovoltaic generation.
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)
2016	7	59273	62SK 8me, LLC	IPP	Springbok Solar Farm 1	CA	59532	SB1	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2016	7	59050	Algonquin Power Co	IPP	Odell Wind Farm	MN	58657	1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2016	7	772	Archer Daniels Midland Co	Industrial	Archer Daniels Midland Cedar Rapids	IA	10864	GEN7	35.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	38.5
2016	7	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK4	33.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	33.2
2016	7	60136	Boulder Solar Power, LLC	IPP	Boulder Solar Power, LLC	NV	60352	BSP	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2016	7	59903	Candace Solar LLC	IPP	Candace Solar	NC	59499	PV1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2016	7	57365	Consolidated Edison Solutions Inc	IPP	Future Generation Wind	MA	59622	FGMA	7.9	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	8.0
2016	7	57044	Constellation Solar New Jersey, LLC	IPP	NHA at Mansfield NJ	NJ	60378	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	7	58695	Coronal Development Services	IPP	Mariposa Solar Center LLC	NC	59162	MSC 1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	7	58468	Dominion Renewable Energy	IPP	Enterprise Solar, LLC	UT	59386	ENTS1	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2016	7	58468	Dominion Renewable Energy	IPP	Iron Springs Solar	UT	59941	ISS	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2016	7	6455	Duke Energy Florida, Inc	Electric Utility	Perry Solar Facility	FL	60071	XXXXX	5.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.1
2016	7	59765	Eight Flags Energy LLC	Electric CHP	Eight Flags Energy	FL	60025	01	19.8	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	21.0
2016	7	59745	First Solar Asset Management	IPP	Rancho Seco Solar, LLC	CA	60226	GEN01	10.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.8
2016	7	60158	Flint Hill Solar, LLC	IPP	Flint Hill Solar, LLC	NC	60370	FHSPV	5.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.2
2016	7	59939	Floyd Solar, LLC	IPP	Floyd Solar, LLC	NC	60147	FLS1	6.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	6.5
2016	7	60215	Hardison Farm Solar, LLC	IPP	Hardison Farm Solar, LLC	NC	60415	HFSPV	5.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.2
2016	7	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Washington Solar Park	IN	60252	SWASH	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2016	7	59897	LKL Goldfinch, LLC	IPP	Goldfinch	FL	60124	GFNCH	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2016	7	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	4	214.4	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	216.9
2016	7	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	5	107.2	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	118.9
2016	7	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	6	105.8	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	106.9
2016	7	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	7	105.8	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	106.9
2016	7	59120	Los Vientos Windpower IV, LLC	IPP	Los Vientos Windpower IV	TX	59321	GEN1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2016	7	60214	Maxton Solar, LLC	IPP	Maxton Solar, LLC	NC	60416	MSPV	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2016	7	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF	18.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	18.0
2016	7	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF2	40.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.4
2016	7	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF3	40.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.4
2016	7	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF	14.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	14.4
2016	7	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF2	33.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.7
2016	7	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF3	33.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.7
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J16	0.9	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.9
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U4J16	1.2	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.4
2016	7	56990	NJR Clean Energy Ventures Corporation	IPP	Bernards Solar	NJ	60437	BERNS	2.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.7
2016	7	60145	NRG Solar Las Vegas MB 2	IPP	NRG Solar Las Vegas MB 2, LLC	NV	60350	LVMB2	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2016	7	13511	New York State Elec & Gas Corp	Electric Utility	Harris Lake	NY	2528	2	2.3	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.5
2016	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	6A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2016	7	58417	Panda Liberty O&M LLC	IPP	Panda Liberty Generation Plant	PA	58420	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CC	(TS) Construction complete, but not yet in commercial operation	435.0
2016	7	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN1	382.5	Natural Gas Fired Combined Cycle	NG	CS	(TS) Construction complete, but not yet in commercial operation	435.0
2016	7	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CS	(TS) Construction complete, but not yet in commercial operation	435.0
2016	7	58838	Parrey, LLC	IPP	Henrietta Solar Project	CA	58975	PV1	102.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	102.0
2016	7	59016	Passadumkeag Windpark LLC	IPP	Passadumkeag Windpark LLC	ME	59222	Q357	39.9	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	39.9
2016	7	15248	Portland General Electric Co	Electric Utility	Carty Generating Station	OR	58503	GEN1	300.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	300.0
2016	7	15248	Portland General Electric Co	Electric Utility	Carty Generating Station	OR	58503	GEN2	200.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	200.0
2016	7	60191	RE Barren Ridge 1, LLC	IPP	RE Barren Ridge 1	CA	60389	REBR1	60.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	62.0
2016	7	58968	RE Mustang LLC	IPP	RE Mustang LLC	CA	59150	PV1	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2016	7	60068	Red Horse III	IPP	Red Horse III	AZ	60285	RH3	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2016	7	17650	Southern Power Co	IPP	Stateline Solar	CA	58646	STL7	37.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	37.9
2016	7	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2016	7	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2016	7	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2016	7	60216	Sullivan Solar, LLC	IPP	Sullivan Solar, LLC	IN	60410	SULPV	5.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.2
2016	7	58661	Sustainable Power Group, LLC	IPP	Elevation Solar C	CA	59964	ELVSC	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2016	7	58661	Sustainable Power Group, LLC	IPP	Summer Solar LLC	CA	60280	SUMSL	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	7	59963	TWE New Bern Solar Project, LLC	IPP	TWE New Bern Solar Project, LLC	NC	60191	FLS1	4.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.0
2016	7	59598	Tooele Army Depot	IPP	Tooele Wind Turbine	UT	59817	GEN03	1.7	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.7
2016	7	59108	WED Coventry Four, LLC	IPP	WED Coventry 4	RI	59306	WEDC4	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	7	59105	WED Coventry One, LLC	IPP	WED Coventry 1	RI	59301	WEDC1	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	7	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	7	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6A	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	7	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6B	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	7	59107	WED Coventry Three, LLC	IPP	WED Coventry 3	RI	59305	WEDC3	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	7	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	7	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2A	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	7	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2B	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-1	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-2	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-3	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-4	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-5	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-6	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-7	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-8	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-9	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV10	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	7	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-1	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	7	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-2	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	7	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-3	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	7	60237	Whitakers Farm, LLC	IPP	Whitakers Farm (Fisher Rd)	NC	60438	1	3.4	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	3.4
2016	7	59831	White Oak Solar, LLC	IPP	White Oak Solar, LLC	GA	60082	WHTOK	76.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	76.5
2016	7	59803	White Pine Solar, LLC	IPP	White Pine Solar, LLC	GA	60064	WHTPN	101.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	101.2
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (WI)	WI	59836	11	4.6	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	4.6
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (WI)	WI	59836	12	4.6	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	4.6
2016	7	20910	Wolverine Power Supply Coop	Electric Utility	Alpine Power Plant	MI	59926	AI2	202.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	226.9
2016	8	57369	Apple, Inc	Industrial	Apple Campus 2 Fuel Cell	CA	59557	AC2FC	4.0	Other Waste Biomass	OBG	FC	(U) Under construction, less than or equal to 50 percent complete	4.0
2016	8	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK5	33.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	33.9
2016	8	14534	City of Pasadena - (CA)	Electric Utility	Glenarm	CA	422	GT5	68.0	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	71.0
2016	8	17845	City of Springville - (UT)	Electric Utility	Whitehead	UT	7028	K6CAT	2.5	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	2.5
2016	8	17845	City of Springville - (UT)	Electric Utility	Whitehead	UT	7028	K7CAT	2.5	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	2.5
2016	8	59938	Cohen Farm Solar, LLC	IPP	Cohen Farm Solar, LLC	NC	60146	FLS1	6.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.5
2016	8	59429	Comanche LLC	IPP	Comanche Solar	CO	59656	COMCH	120.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	120.0
2016	8	56769	Consolidated Edison Development Inc.	IPP	CED Westfield Solar, LLC	MA	60274	WFMA	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	8	56769	Consolidated Edison Development Inc.	IPP	OCI Alamo 7 LLC	TX	59207	OCIA7	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2016	8	59595	Copper Mountain Solar 4, LLC	IPP	Copper Mountain Solar 4, LLC	NV	59814	PV01	51.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	51.8
2016	8	59595	Copper Mountain Solar 4, LLC	IPP	Copper Mountain Solar 4, LLC	NV	59814	PV02	41.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	41.8
2016	8	58468	Dominion Renewable Energy	IPP	Escalante Solar I, LLC	UT	59387	ESCS1	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2016	8	58468	Dominion Renewable Energy	IPP	Escalante Solar II, LLC	UT	59388	ESCS2	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2016	8	58468	Dominion Renewable Energy	IPP	Escalante Solar III, LLC	UT	59389	ESCS3	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2016	8	58135	Ecos Energy LLC	IPP	Munro Valley Solar	CA	60412	MUN	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2016	8	59258	Five Points Solar Park, LLC	IPP	Five Points Solar Park	CA	59523	FRFSP	60.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	60.0
2016	8	57104	Golden Springs Development Company LLC	IPP	Buidling L	CA	60154	BLDG1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2016	8	57104	Golden Springs Development Company LLC	IPP	Building F	CA	60151	BLDGF	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2016	8	57104	Golden Springs Development Company LLC	IPP	Building G	CA	60153	BLDGG	1.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.2
2016	8	57104	Golden Springs Development Company LLC	IPP	Dulles	CA	60182	DULLE	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	8	57104	Golden Springs Development Company LLC	IPP	Freeway Springs	CA	60183	FSPRI	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	8	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	1	2.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.7
2016	8	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	2	2.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.7
2016	8	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	3	2.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.7
2016	8	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	4	2.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.7
2016	8	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	5	2.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.7

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	8	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	6	2.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.7
2016	8	60235	ID Solar 1, LLC	IPP	ID Solar	ID	60445	INV1	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2016	8	9324	Indiana Michigan Power Co	Electric Utility	OlivePV	IN	59854	OLPV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	8	9324	Indiana Michigan Power Co	Electric Utility	Twin Branch PV	IN	59861	TBPV1	2.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.6
2016	8	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Huntingburg Solar Park	IN	60251	SHUNT	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	8	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	A1	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	8	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	A2	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	8	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	A3	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	8	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	A4	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	8	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	A5	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	8	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	A6	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	8	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B1	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	8	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B2	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	8	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B3	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	8	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B4	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	8	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B5	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	8	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	B6	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	8	59245	Lanier Solar	IPP	Lanier Solar	NC	59486	LANIE	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2016	8	11208	Los Angeles Department of Water & Power	Electric Utility	Maclay Solar Project	CA	57308	1	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2016	8	60190	MC1 Solar Farm, LLC	IPP	MC1 Solar	NC	60395	MC1PV	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	8	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF4	40.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.4
2016	8	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF4	33.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.7
2016	8	60213	Modlin Solar, LLC	IPP	Modlin Solar Farm	NC	60417	MSFPV	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2016	8	58489	OCI Solar Power	IPP	OCI Alamo 6 LLC	TX	59206	OCIA6	105.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	105.0
2016	8	58589	Orbit Energy Charlotte	IPP	Orbit Energy Charlotte	NC	58638	1	5.2	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	5.2
2016	8	40307	Prairie Power, Inc	Electric Utility	Alsey	IL	7818	6	42.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	48.0
2016	8	57313	SolarCity Corporation	IPP	BJ's Wholesale Club, Inc- Uxbridge	MA	60116	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	8	57313	SolarCity Corporation	IPP	Hewlett-Packard (HP) - Andover, MA	MA	60099	PV1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2016	8	57313	SolarCity Corporation	IPP	Jackson Board of Education-Liberty HS	NJ	60113	PV1	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.2
2016	8	57313	SolarCity Corporation	IPP	Oneida County- DPW	NY	60114	PV1	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2016	8	57313	SolarCity Corporation	IPP	Onondaga County- Jamesville	NY	60232	PV1	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2016	8	57313	SolarCity Corporation	IPP	Oregon Convention Center	OR	60112	PV1	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2016	8	57313	SolarCity Corporation	IPP	Town of Halfmoon	NY	60115	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	8	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG01	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	8	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG02	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	8	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG03	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	8	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG04	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	8	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG05	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	8	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG06	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	8	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG07	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	8	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG08	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	8	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG09	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	8	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG10	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	8	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG11	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	8	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG12	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	8	59773	SunE Solar XVI Lessor, LLC	IPP	SunE Rochester	CA	60032	RCHTR	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	8	58661	Sustainable Power Group, LLC	IPP	Antelope Big Sky Ranch	CA	60279	ABSR	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	8	60184	Tropico, LLC	IPP	Tropico Solar PV Plant	CA	59599	GEN1	13.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	14.0
2016	9	59616	63SU 8me, LLC	IPP	Springbok Solar Farm 2	CA	59840	SB2	155.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	155.0
2016	9	59050	Algonquin Power Co	IPP	Algonquin SKIC 10 Solar, LLC	CA	60242	SKI10	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	9	59474	BQ Energy LLC	IPP	Steel Sun	NY	59705	SSUN2	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	9	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK6	32.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	32.0
2016	9	11268	City of Lowell - (MI)	Electric Utility	Chatham	MI	58254	CT02R	3.2	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	3.6
2016	9	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 4	CA	60081	DU4CA	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	9	4254	Consumers Energy Co	Electric Utility	Western Michigan Solar Gardens	MI	60117	1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2016	9	4329	Copper Valley Elec Assn, Inc	Electric Utility	Allison Creek Hydro	AK	58982	GEN1	6.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.5
2016	9	58695	Coronal Development Services	IPP	County Home Solar Center, LLC	NC	60199	CHSC1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	9	58695	Coronal Development Services	IPP	Grove Solar Center, LLC	OR	60330	GSC1	6.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	6.0
2016	9	58695	Coronal Development Services	IPP	Open Range Solar Center, LLC	OR	60332	ORSC1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2016	9	59997	Customized Energy Solutions	IPP	ESS Lewes	DE	60216	ESSLS	8.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	8.0
2016	9	58468	Dominion Renewable Energy	IPP	Granite Mountain Solar East	UT	59946	GMSE	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2016	9	58468	Dominion Renewable Energy	IPP	Granite Mountain Solar West	UT	59945	GMSW	50.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.4
2016	9	5701	El Paso Electric Co	Electric Utility	Montana Power Station	TX	58562	GT-4	100.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	131.8
2016	9	59745	First Solar Asset Management	IPP	Moapa Southern Paiute	NV	57859	1	250.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	250.0
2016	9	7140	Georgia Power Co	Electric Utility	Fort Gordon Solar Facility	GA	59863	1	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2016	9	7140	Georgia Power Co	Electric Utility	Fort Stewart Solar Facility	GA	59865	1	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2016	9	59806	Grand View PV Solar Two, LLC	IPP	Grand View Solar Two	ID	60068	GVS5	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	9	59462	Heelstone Energy Holdings, LLC	IPP	Cornwall Solar Center, LLC	NC	59663	CSC1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	9	60129	Horse Creek Wind, LLC	IPP	Horse Creek Wind Farm	TX	60339	HCWF	230.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	230.0
2016	9	9216	Imperial Irrigation District	Electric Utility	El Centro	CA	389	BESS	28.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	30.0
2016	9	59022	Leonardo Wind 1 LLC	IPP	Leonardo Wind 1 LLC	IA	59228	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	9	59680	Lillington Solar LLC	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	9	59802	Live Oak Solar, LLC	IPP	Live Oak Solar, LLC	GA	60063	LVEOK	51.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	51.0
2016	9	59027	Michelangelo Wind 4 LLC	IPP	Michelangelo Wind 4 LLC	IA	59232	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	9	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF5	40.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.4
2016	9	59600	Mohave Sunrise Solar I, LLC	IPP	Mohave Electric at Fort Mohave	AZ	59819	PV2	11.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	11.8
2016	9	9436	Mosaic Phosphates Co.	Industrial	Mosaic Phosphates Uncle Sam	LA	10198	GEN3	15.0	All Other	OTH	ST	(V) Under construction, more than 50 percent complete	15.0
2016	9	56990	NJR Clean Energy Ventures Corporation	IPP	Cedar Branch	NJ	60266	CEDAR	5.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.9
2016	9	60185	Nicolis, LLC	IPP	Nicolis Solar PV Plant	CA	59600	GEN1	19.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	9	60048	PHR Holdings LLC	IPP	Cielo Lindo	TX	60264	CLGT1	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2016	9	60048	PHR Holdings LLC	IPP	Cielo Lindo	TX	60264	CLGT2	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2016	9	60048	PHR Holdings LLC	IPP	Cielo Lindo	TX	60264	CLGT3	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2016	9	60048	PHR Holdings LLC	IPP	Cielo Lindo	TX	60264	CLGT4	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2016	9	60048	PHR Holdings LLC	IPP	Cielo Lindo	TX	60264	CLGT5	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2016	9	60048	PHR Holdings LLC	IPP	Cielo Lindo	TX	60264	CLGT6	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	71.2
2016	9	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG1	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	107.0
2016	9	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG2	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	107.0
2016	9	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG3	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	107.0
2016	9	59682	Pollocksville Solar LLC	IPP	Pollocksville Solar	NC	59917	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	9	59790	River Bend Solar, LLC	IPP	River Bend Solar, LLC	AL	60058	RVRBN	75.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	75.0
2016	9	59662	Riverside Fuel Cell, LLC	Commercial	Riverside RWQCP Fuel Cell	CA	59877	MB20	1.4	Other Waste Biomass	OBG	FC	(TS) Construction complete, but not yet in commercial operation	1.4
2016	9	60209	Roswell Solar, LLC	IPP	Roswell Solar, LLC	NM	60406	RSPV	70.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	70.0
2016	9	60060	SR Mavericks, LLC	IPP	SR Mavericks	CO	60283	MVRKS	6.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	6.5
2016	9	57313	SolarCity Corporation	IPP	AVS Lancaster 1	CA	60085	PV1	3.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.7
2016	9	57313	SolarCity Corporation	IPP	BJ's Wholesale Club, Inc.-Burlington, NJ	NJ	60227	PV1	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2016	9	57313	SolarCity Corporation	IPP	Connecticut Municipal Electric Energy Co	CT	60225	PV1	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2016	9	57313	SolarCity Corporation	IPP	Connecticut Municipal Electric Energy Co	CT	60228	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	9	57313	SolarCity Corporation	IPP	Maricopa County Community Colleges- Estr	AZ	60230	PV1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2016	9	57313	SolarCity Corporation	IPP	Onondaga County - Oak Orchard WWTP	NY	60098	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2016	9	57313	SolarCity Corporation	IPP	Orange County Solar Farm (NY)	NY	60229	PV1	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2016	9	57313	SolarCity Corporation	IPP	US-TOPCO (Soccer Center)	CA	60086	PV1	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2016	9	59605	South Louisburg Solar LLC	IPP	South Louisburg Solar	NC	59825	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	9	60045	Stainback Solar Farm, LLC	IPP	Stainback Solar Farm	NC	60257	INV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	9	19876	Virginia Electric & Power Co	Electric Utility	Merck	VA	59905	1	2.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.1
2016	9	59731	Windham Solar LLC	IPP	Lebanon Solar 1	CT	59991	LEB1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	9	59731	Windham Solar LLC	IPP	Lebanon Solar 2	CT	59992	LEB2	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	9	60142	Wortham Solar Farm, LLC	IPP	Wortham Solar Farm	NC	60361	INV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	10	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG1	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2016	10	60242	Athens Energy, LLC	IPP	Athens Energy	ME	60457	1	7.0	Wood/Wood Waste Biomass	WDS	OT	(V) Under construction, more than 50 percent complete	8.5
2016	10	59474	BQ Energy LLC	IPP	Kings Park Solar I	NY	59880	KIPS1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0

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)
2016	10	59474	BQ Energy LLC	IPP	Kings Park Solar II	NY	59881	KIPS2	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2016	10	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	04	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	60.5
2016	10	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	05	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	60.5
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	11	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	12	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	13	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	14	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	15	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	16	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	17	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	18	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	19	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	20	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	21	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	22	9.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	10	57421	BayWa r.e Wind LLC	IPP	Chopin Wind LLC	OR	59076	WT1	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	10	60143	Bison Solar LLC	IPP	Bison Solar LLC	CO	60351	BSPV1	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2016	10	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK7	32.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	32.1
2016	10	60148	Brady Wind, LLC	IPP	Brady Wind Energy Center	ND	60355	BWEC1	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2016	10	58519	Clean Energy Collective LLC	IPP	Wareham MA 1	MA	60443	WMA1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	10	60094	Clinton Battery Utility, LLC	IPP	Clinton Battery	OH	60297	1	10.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	10	58695	Coronal Development Services	IPP	Hyline Solar Center, LLC	OR	60331	HSC1	9.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	9.0
2016	10	58695	Coronal Development Services	IPP	Vale Air Solar Center, LLC	OR	60335	VASC1	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2016	10	58468	Dominion Renewable Energy	IPP	Eastern Shore Solar, LLC	VA	60127	PV1	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2016	10	60128	Electra Wind, LLC	IPP	Electra Wind Farm	TX	60338	EWF	230.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.0
2016	10	59481	Franklinton Solar LLC	IPP	Franklinton Solar	NC	59708	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	10	25438	Friant Power Authority	IPP	Friant Hydro Facility	CA	50393	RO2	9.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	6.9
2016	10	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	4TG	62.0	Wood/Wood Waste Biomass	BLQ	ST	(V) Under construction, more than 50 percent complete	75.0
2016	10	60195	Groton Fuel Cell 1, LLC	Electric CHP	Pfizer Groton Fuel Cell	CT	60392	MM-24	2.8	Other Natural Gas	NG	FC	(T) Regulatory approvals received. Not under construction	2.8
2016	10	60195	Groton Fuel Cell 1, LLC	Electric CHP	Pfizer Groton Fuel Cell	CT	60392	MM-25	2.8	Other Natural Gas	NG	FC	(T) Regulatory approvals received. Not under construction	2.8
2016	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Elettsville Solar RES	IN	59985	PV1	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.1
2016	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Henryville Solar RES	IN	59986	PV1	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.1
2016	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Johnson Co. Solar RES	IN	59990	PV1	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.1
2016	10	9267	Hoosier Energy R E C, Inc	Electric Utility	New Haven Solar RES	IN	59983	PV1	1.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.1
2016	10	9324	Indiana Michigan Power Co	Electric Utility	Watervliet PV	MI	59853	WVPV1	4.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.6
2016	10	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park	IN	60253	SANDE	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	10	4361	Ingredion Inc - Stockton	Industrial	Ingredion Stockton	CA	52115	GEN2	6.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	7.2
2016	10	49893	Invenergy Services LLC	IPP	Wake Wind Energy Center	TX	58766	1	129.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	129.5
2016	10	49893	Invenergy Services LLC	IPP	Wake Wind Energy Center	TX	58766	2	109.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	109.2
2016	10	49893	Invenergy Services LLC	IPP	Wake Wind Energy Center	TX	58766	3	61.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	61.1
2016	10	58849	Mariah del Este LLC	IPP	Mariah North	TX	59005	MAR1	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2016	10	59691	Meadowbrook Solar Farm LLC	IPP	Meadowbrook Solar Farm	NC	59936	NB008	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2016	10	59026	Michelangelo Wind 1 LLC	IPP	Michelangelo Wind 1 LLC	IA	59231	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	58887	Michelangelo Wind 3 LLC	IPP	Michelangelo Wind 3 LLC	IA	59053	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF6	40.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.4
2016	10	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF6	33.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.7
2016	10	59668	Mount Olive Solar LLC	IPP	Mount Olive Solar	NC	59908	2MWPV	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2016	10	59025	Optimum Wind 3 LLC	IPP	Optimum Wind 3 LLC	IA	59227	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59024	Optimum Wind 4 LLC	IPP	Optimum Wind 4 LLC	IA	59226	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59017	Optimum Wind 5 LLC	IPP	Optimum Wind 5 LLC	IA	59223	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59018	Optimum Wind 6 LLC	IPP	Optimum Wind 6 LLC	IA	59224	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	60238	Pavant Solar II LLC	IPP	Pavant Solar II LLC	UT	60449	PSII	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2016	10	59728	RE Astoria 2 LLC	IPP	RE Astoria 2	CA	59977	ASTR2	75.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	75.0
2016	10	59727	RE Astoria LLC	IPP	RE Astoria	CA	59976	ASTR1	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2016	10	60257	Solar Glynn LLC	IPP	Solar Glynn	GA	60469	INV1	18.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	18.0
2016	10	17650	Southern Power Co	IPP	Butler Solar Project 103	GA	59896	1	103.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	103.0
2016	10	17650	Southern Power Co	IPP	East Pecos Solar	TX	60436	1	118.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	118.5
2016	10	17650	Southern Power Co	IPP	RE Roserock	TX	59994	ROSEK	160.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	160.0
2016	10	17650	Southern Power Co	IPP	RE Tranquillity	CA	59939	TQ	205.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	205.3
2016	10	58661	Sustainable Power Group, LLC	IPP	Antelope DSR 2	CA	60187	DSR2	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	10	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 4	CA	59317	BEAC4	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2016	10	58661	Sustainable Power Group, LLC	IPP	Western Antelope Dry Ranch	CA	58627	WADR	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	11	60019	96WI 8ME, LLC	IPP	Midway Solar Farm II	CA	60237	MSF2	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2016	11	55918	Acciona Wind Energy USA LLC	IPP	San Roman Wind I, LLC	TX	59712	SRWI	95.3	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	95.3
2016	11	213	Alaska Electric Light&Power Co	Electric Utility	Industrial Plant	AK	59793	15	25.0	Petroleum Liquids	DFO	GT	(V) Under construction, more than 50 percent complete	25.0
2016	11	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG2	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2016	11	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG3	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2016	11	57369	Apple, Inc	IPP	Bonnybrooke PV	AZ	60413	AZPV1	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2016	11	60208	Chaves Solar LLC	IPP	Chaves Solar, LLC	NM	60405	CSPV	70.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	70.0
2016	11	58871	Citizens Enterprises Corporation	IPP	Hunt Road Solar	MA	59927	PV1	4.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.5
2016	11	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	10	43.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	53.1
2016	11	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	11	43.1	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	53.1
2016	11	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	12	40.9	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	43.2
2016	11	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
2016	11	58695	Coronal Development Services	IPP	Freemont Solar Center LLC	NC	59912	FREE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	11	58695	Coronal Development Services	IPP	Railroad Solar Center, LLC	OR	60333	RSC1	4.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.5
2016	11	58695	Coronal Development Services	IPP	Thunderegg Solar Center, LLC	OR	60334	TSC1	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	11	57406	Deepwater Wind Block Island LLC	IPP	Block Island Wind Farm	RI	58035	BIWF	29.3	Offshore Wind Turbine	WND	WS	(V) Under construction, more than 50 percent complete	30.0
2016	11	58970	Ecoplexus, Inc	IPP	Turkey Creek PV1	NC	60000	TRKCK	13.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	13.5
2016	11	6452	Florida Power & Light Co	Electric Utility	Babcock Solar Energy Center	FL	59993	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2016	11	6452	Florida Power & Light Co	Electric Utility	Citrus Solar Energy Center	FL	60061	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2016	11	59806	Grand View PV Solar Two, LLC	IPP	Grand View Solar Two	ID	60068	GVS2	60.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	60.0
2016	11	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP1	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5
2016	11	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP2	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5
2016	11	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP3	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5
2016	11	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP4	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5
2016	11	59941	Innovative Solar 43, LLC	IPP	Innovative Solar 43, LLC	NC	60149	FLS1	50.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.8
2016	11	59446	Innovative Solar 55, LLC	IPP	Innovative Solar 55	NC	59676	IS044	6.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.5
2016	11	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF5	33.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	33.7
2016	11	56990	NJR Clean Energy Ventures Corporation	IPP	Ringer Hill Wind Farm, LLC	PA	60329	RINGR	39.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	39.9
2016	11	59634	North Star Solar PV LLC	IPP	North Star Solar Project	MN	59852	NSSP1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2016	11	59019	Optimum Wind 7 LLC	IPP	Optimum Wind 7 LLC	IA	59225	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	11	17470	PUD 1 of Snohomish County	Electric Utility	MESA 2	WA	60021	MESA2	2.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.4
2016	11	60189	SJA Solar, LLC	IPP	SJA Solar LLC-Solterra Monastery	MA	60391	SJAPV	20.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.1
2016	11	60097	San Isabel Solar, LLC	IPP	San Isabel Solar, LLC	CO	60304	SISPV	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2016	11	60177	Solar Star Arizona XIII, LLC	IPP	Sulphur Springs	AZ	60381	SSSP	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	11	59138	SunPower Corporation, Systems	IPP	Rio Bravo Solar 1 LLC	CA	59249	PV1	19.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	11	59138	SunPower Corporation, Systems	IPP	Rio Bravo Solar II LLC	CA	59250	PV1	19.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	11	59138	SunPower Corporation, Systems	IPP	Wildwood Solar II	CA	59253	PV1	14.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	15.0
2016	11	58658	Sunlight Partners	IPP	Alexis Solar	NC	60139	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Anna Solar	NC	60176	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	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
2016	11	58658	Sunlight Partners	IPP	Bonnie Solar	NC	60175	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Brooke Solar	NC	60140	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2016	11	58658	Sunlight Partners	IPP	Carter Solar	NC	60167	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Christina Solar	NC	60172	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2016	11	58658	Sunlight Partners	IPP	Daystar Solar	NC	60179	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Hawk Solar	NC	60163	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. 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)
2016	11	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	June Solar	NC	60158	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2016	11	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Sadie Solar	NC	60168	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Signature Solar	NC	60155	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58661	Sustainable Power Group, LLC	IPP	Antelope DSR 1	CA	60186	DSR1	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2016	11	58661	Sustainable Power Group, LLC	IPP	Pioneer Wind Park, LLC	WY	60259	PWP1	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2016	11	58661	Sustainable Power Group, LLC	IPP	Solverde 1	CA	60185	SOLV1	85.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	85.0
2016	11	58661	Sustainable Power Group, LLC	IPP	Western Antelope Blue Sky B	CA	59961	WABSB	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	11	59826	Syncarpha Bondsville, LLC	IPP	Palmer Landfill	MA	60076	SYNPL	4.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.0
2016	11	18454	Tampa Electric Co	Electric Utility	Legoland Solar	FL	60371	1	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2016	11	56694	Thermo No 1 BE 01 LLC	IPP	Thermo Solar PV-01	UT	59883	SOLAR	2.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.9
2016	11	60245	Three Peaks Power LLC	IPP	Three Peaks Power	UT	60432	TPP	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2016	11	24211	Tucson Electric Power Co	Electric Utility	Fort Huachuca Solar PV Project	AZ	58972	FHUA2	4.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.1
2016	11	59021	Venus Wind 3 LLC	IPP	Venus Wind 3 LLC	IA	59230	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	11	59840	Wallace Solar 2 LLC	IPP	Wallace Solar 2	NC	60090	2MWPV	1.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.9
2016	12	58603	Aloha Solar Energy Fund I LLC	IPP	Aloha Solar Energy Fund 1 PK1	HI	58659	PK-1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	12	59758	American Falls Solar II, LLC	IPP	American Falls Solar II	ID	60012	IPAF2	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	59757	American Falls Solar LLC	IPP	American Falls Solar	ID	60011	IPAF	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	59725	Ariel Solar, LLC	IPP	Bloomsbury Solar, LLC	NC	59970	BLOOM	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	12	803	Arizona Public Service Co	Electric Utility	Red Rock	AZ	60467	PV1	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2016	12	58680	Ayrshire Holdings, LLC	IPP	Ayrshire	NC	58792	PV1	19.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	19.4
2016	12	59359	BHE Renewables, LLC	IPP	Grande Prairie Wind Farm	NE	58695	1	400.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	400.0
2016	12	58625	Black Oak Wind, LLC	IPP	Black Oak Wind Farm	MN	58692	1	78.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	78.0
2016	12	60044	Bluestem Wind Energy, LLC	IPP	Bluestem	OK	60256	1	198.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	198.0
2016	12	60149	Brady Wind II, LLC	IPP	Brady II Wind Energy Center	ND	60354	BWEC2	150.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	150.0
2016	12	59006	Calypso Farm LLC	IPP	Calypso Farm	NC	59212	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	59991	Caprock Solar 1, LLC	IPP	Caprock Solar 1 LLC	NM	59251	PV1	24.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	25.0
2016	12	59007	Clipperton Holdings LLC	IPP	Clipperton Holdings	NC	59213	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP1	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP2	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP3	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP4	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	56769	Consolidated Edison Development Inc.	IPP	Blackwell Solar Park	CA	59524	FRBSP	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Avenal	CA	60077	AVCA	15.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	15.8
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 1	CA	60078	DU1CA	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 2	CA	60079	DU2CA	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 3	CA	60080	DU3CA	15.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	15.0
2016	12	56769	Consolidated Edison Development Inc.	IPP	Oro Loma	CA	59915	ORCA	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	56769	Consolidated Edison Development Inc.	IPP	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
2016	12	59319	Cotton Solar, LLC	IPP	Cotton Solar	SC	59572	PV1	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2016	12	59997	Customized Energy Solutions	IPP	ESS Fairgrounds	MD	60215	ESSFG	4.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	4.0
2016	12	59997	Customized Energy Solutions	IPP	ESS Wesel	MD	60214	ESSWL	6.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	6.0
2016	12	59997	Customized Energy Solutions	IPP	NA 1(Hagerstown)	MD	60213	MPSHG	2.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.0
2016	12	5109	DTE Electric Company	Electric Utility	Echo Wind Park	MI	58121	GEN3	50.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.0
2016	12	5416	Duke Energy Carolinas, LLC	IPP	Mocksville Solar	NC	59570	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Monroe Solar Facility	NC	60383	MONPV	59.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	59.4
2016	12	15470	Duke Energy Indiana, LLC	Electric Utility	Crane Solar Facility	IN	60435	XXXXX	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2016	12	58970	Ecoplexus, Inc	IPP	American Legion PV 1	NC	59516	AMLEG	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
2016	12	58970	Ecoplexus, Inc	IPP	Baker PV 1	NC	59517	BAKE1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	12	58970	Ecoplexus, Inc	IPP	Benthall Bridge PV 1	NC	59515	BENT1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	12	5701	El Paso Electric Co	Electric Utility	Montana Solar Facility	TX	60300	IMPV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2016	12	58720	Enbridge	IPP	New Creek Wind	WV	60132	NCG01	103.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	103.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	Apple Blossom Wind Farm	MI	58690	APLB1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	Courtenay Wind Farm	ND	58658	1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	Drift Sand Wind Project LLC	OK	59065	WT1	109.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	109.8
2016	12	59380	Enel Green Power NA, Inc.	IPP	Lindahl Wind Project, LLC	ND	59684	LWP01	150.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	150.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	Mustang Run Wind Project LLC	OK	59000	MRWP	136.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	136.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	South Fork Wind Farm	MN	58691	STFK1	13.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	13.0
2016	12	60201	Exum Farm Solar, LLC	IPP	Exum Farm Solar, LLC	NC	60400	FLS1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2016	12	31719	FPL Energy Wyman LLC	IPP	William F Wyman	ME	1507	BESS	16.2	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	16.7
2016	12	56615	First Solar Project Development	IPP	Portal Ridge Solar C, LLC	CA	60311	GEN01	11.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	11.4
2016	12	59155	First Wind O&M, LLC	IPP	Bingham Wind	ME	57531	1	186.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	186.0
2016	12	59155	First Wind O&M, LLC	IPP	Hancock Wind Plant	ME	58686	HANC1	51.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	51.0
2016	12	6452	Florida Power & Light Co	Electric Utility	Manatee Solar Energy Center	FL	60014	1	74.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	74.5
2016	12	59998	Frontier Windpower, LLC	IPP	Frontier Windpower	OK	60218	FC1	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2016	12	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
2016	12	59002	Garland Farm LLC	IPP	Garland Farm	NC	59209	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	7140	Georgia Power Co	Electric Utility	King's Bay Solar Facility	GA	59864	1	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2016	12	7140	Georgia Power Co	Electric Utility	Marine Corps Logistics Base Solar Facility	GA	59876	1	46.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	46.0
2016	12	59633	Great Bay Solar I LLC	IPP	Great Bay Solar 1	MD	59851	GBS01	57.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2016	12	59977	Hemlock Solar LLC	IPP	Hemlock Solar	NC	60207	HEMLK	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	56946	Hidalgo Wind Farm LLC	IPP	Hidalgo Wind Farm LLC	TX	57617	GEN1	250.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	250.0
2016	12	60095	High Pockets Solar, LLC	IPP	High Pockets Solar	NC	60305	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2016	12	60164	ILR Landfill	IPP	ILR Landfill	NJ	60375	ILR1	7.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.7
2016	12	15399	Iberdrola Renewables Inc	IPP	Desert Wind Farm, LLC	NC	59968	1	208.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	208.0
2016	12	15399	Iberdrola Renewables Inc	IPP	El Cabo Wind	NM	58098	1	298.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	298.0
2016	12	15399	Iberdrola Renewables Inc	IPP	Tule Wind LLC	CA	57913	1	143.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	143.0
2016	12	59441	Innovative Solar 46, LLC	IPP	Innovative Solar 46	NC	59671	IS046	78.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	78.5
2016	12	59436	Innovative Solar 47, LLC	IPP	Innovative Solar 47	NC	59666	IS047	33.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	33.8
2016	12	60199	Innovative Solar 65, LLC	IPP	Innovative Solar 65	NC	60398	FLS1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2016	12	49893	Invenergy Services LLC	IPP	Bethel Wind Farm LLC	TX	60414	GEN1	276.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	276.0
2016	12	60198	Kennedy Solar, LLC	IPP	Kennedy Solar, LLC	NC	60397	FLS1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2016	12	55910	Lanai Sustainability Research LLC	IPP	Mililani South Solar Farm	HI	57242	1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	12	60200	Lincoln Solar, LLC	IPP	Lincoln Solar, LLC (NC)	NC	60399	FLS1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2016	12	59669	Louisburg Solar LLC	IPP	Louisburg Solar	NC	59895	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	59973	Marshall Solar Energy Project	IPP	Marshall Solar Energy Project	MN	59875	PV1	62.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	62.3
2016	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
2016	12	60106	Mesquite Solar 2, LLC	IPP	Mesquite Solar 2, LLC	AZ	60307	1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2016	12	60107	Mesquite Solar 3, LLC	IPP	Mesquite Solar 3, LLC	AZ	60308	1	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2016	12	59483	Metropolitan Airports Commission	IPP	St. Paul Intl Airport Red & Blue Parking	MN	59709	PV2	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	0.9
2016	12	59469	Mt. Home Solar 1, LLC	IPP	Mountain Home Solar	ID	59695	MHPV1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	59755	Murphy Flat Power, LLC	IPP	Murphy Flat Solar	ID	60009	IPMF	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	59099	New Dimension Energy Company, LLC	IPP	Westwind Trust	CA	54258	WTGS	15.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.6
2016	12	13781	Northern States Power Co - Minnesota	Electric Utility	Courtney Wind Farm	ND	60204	CWF01	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2016	12	58477	O2energies, Inc.	IPP	Five Forks Solar	NC	59951	5FRK	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	12	59756	Orchard Ranch Solar, LLC	IPP	Orchard Ranch Solar	ID	60010	IPOR	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	60207	Pisgah Mountain, LLC	IPP	Pisgah Mountain Wind	ME	60404	PISGA	9.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	9.1
2016	12	60125	Providence Solar Center, LLC	IPP	Providence Solar	TN	60337	PROV	16.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.0
2016	12	59010	Rhubarb One LLC	IPP	Rhubarb One SC	SC	59596	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	59334	Rutherford Farm, LLC	IPP	Rutherford Farm	NC	59589	PV1	61.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	61.0
2016	12	60182	SRJFC, LLC	Electric CHP	Santa Rita Jail Fuel Cell	CA	60385	MB-18	1.4	Other Natural Gas	NG	FC	(U) Under construction, less than or equal to 50 percent complete	1.4
2016	12	59109	SUNE BEACON SITE 2, LLC	IPP	Beacon Solar Plant Site 2	CA	59309	BEAC2	48.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	48.0
2016	12	59110	SUNE BEACON SITE 5, LLC	IPP	Beacon Solar Plant Site 5	CA	59308	BEAC5	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2016	12	60178	Shoe Creek Solar, LLC	IPP	Shoe Creek Solar, LLC	NC	60380	SCSPV	5.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.2
2016	12	59779	Shoreham Solar Commons	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	24.9
2016	12	59770	Shorthorn Holdings, LLC	IPP	Shorthorn Holdings	SC	60028	PV1	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2016	12	59681	Smithfield Solar LLC	IPP	Smithfield Solar LLC	NC	59920	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	12	58704	Sonne Two LLC	IPP	Sonne Two	NC	58829	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	17650	Southern Power Co	IPP	RE Garland	CA	60233	PV2	185.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	185.0
2016	12	17650	Southern Power Co	IPP	RE Garland A	CA	60386	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	12	17650	Southern Power Co	IPP	Taylor County Solar	GA	59897	1	148.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	148.0
2016	12	59318	Soy Solar LLC	IPP	Soy Solar	NC	59571	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	60197	St. Pauls Solar 1, LLC	IPP	St. Pauls Solar 1, LLC	NC	60396	FLS1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2016	12	59138	SunPower Corporation, Systems	IPP	Aragonne Solar LLC	NM	59252	PV1	38.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
2016	12	58658	Sunlight Partners	IPP	Beetle Solar	NC	59511	PV1	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2016	12	58658	Sunlight Partners	IPP	Cardinal Solar	NC	60174	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Carol Jean Solar	NC	59017	GEN 1	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2016	12	58658	Sunlight Partners	IPP	Clayton Solar	NC	60171	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	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
2016	12	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2016	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
2016	12	58658	Sunlight Partners	IPP	Husky Solar	NC	59510	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	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
2016	12	58658	Sunlight Partners	IPP	Jordan Solar	NC	60164	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	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
2016	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
2016	12	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	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
2016	12	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 3	CA	59316	BEAC3	56.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	56.0
2016	12	58661	Sustainable Power Group, LLC	IPP	North Lancaster Ranch	CA	59962	NLR	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	59011	Tiburon Holdings	IPP	Tiburon Holdings	NC	59217	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	60071	Trinity Solar, LLC	IPP	Trinity Solar	NC	60291	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	12	24211	Tucson Electric Power Co	Electric Utility	Demoss Petrie	AZ	124	BA1	10.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	10.0
2016	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
2016	12	59896	Upco Power 1, LLC	IPP	Castle Gap Solar	TX	60123	CGAP	117.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	117.3
2016	12	57341	Veolia Energy	Electric CHP	Univ Minnesota CHP Plant	MN	59197	CTG-1	17.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	21.0
2016	12	19876	Virginia Electric & Power Co	Electric Utility	Scott Solar Farm	VA	60316	1	17.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	17.0
2016	12	19876	Virginia Electric & Power Co	Electric Utility	Whitehouse Solar Farm	VA	60319	1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	19876	Virginia Electric & Power Co	Electric Utility	Woodland Solar Farm	VA	60318	1	19.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.0
2016	12	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED1	2.0	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED2	2.0	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	60156	White Farm Solar, LLC	IPP	White Farm Solar, LLC	NC	60363	WFSPV	5.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.2
2016	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
2016	12	59330	Wommack Farm, LLC	IPP	Wommack Farm	NC	59585	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	1	56146	Black Hills/Colorado Elec.Util	Electric Utility	Peak View Wind Farm	CO	60143	WTG	60.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	60.8
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	10	18.7	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.7
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	8	18.7	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.7
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	9	18.7	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.7
2017	1	58519	Clean Energy Collective LLC	IPP	Carver MA 1	MA	60442	CMA1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2017	1	58519	Clean Energy Collective LLC	IPP	West Bridgewater AB	MA	60424	WBAB	2.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.2
2017	1	5109	DTE Electric Company	Electric Utility	Demille Solar Farm	MI	60346	1	28.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	28.4
2017	1	5109	DTE Electric Company	Electric Utility	O'Shea Solar Farm	MI	60348	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	1	5109	DTE Electric Company	Electric Utility	Turrill Solar Farm	MI	60347	1	19.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.6
2017	1	56615	First Solar Project Development	IPP	Portal Ridge Solar B, LLC	CA	60310	GEN01	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2017	1	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
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	7.0
2017	1	59323	Monroe Moore Farm, LLC	IPP	Monroe Moore Farm	NC	59578	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 4	0.6	Conventional Steam Coal	BIT	ST	(U) Under construction, less than or equal to 50 percent complete	2.9
2017	1	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 5	0.6	Conventional Steam Coal	BIT	ST	(U) Under construction, less than or equal to 50 percent complete	2.2
2017	1	59338	Spring Valley Farm 2, LLC	IPP	Spring Valley Farm 2, LLC	NC	59593	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	59839	Sunflower Wind Project	IPP	Sunflower Wind Project	ND	60088	SNFLR	104.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	104.0
2017	1	58661	Sustainable Power Group, LLC	IPP	Aspiration G	CA	59737	ASPRG	9.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	9.0
2017	1	58661	Sustainable Power Group, LLC	IPP	Central Antelope Dry Ranch B LLC	CA	60281	CADRB	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	1	58661	Sustainable Power Group, LLC	IPP	Lancaster WAD B	CA	59739	LWADB	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	60046	TPE Alta Luna, LLC	IPP	Alta Luna	NM	60258	ALPV1	28.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	28.1
2017	1	18454	Tampa Electric Co	Electric Utility	Polk	FL	7242	2CC	459.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	463.0
2017	1	59116	WED Coventry Five, LLC	IPP	WED Coventry 5	RI	59313	COV5	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2017	1	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSLFG	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2017	1	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSPV	3.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.4
2017	2	57369	Apple, Inc	Industrial	Apple Campus 2 PV	CA	59473	AC2PV	14.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	14.4
2017	2	59861	Benson Creek	IPP	Benson Creek Windfarm	OR	59491	BCW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	215.0
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG2	205.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	215.0
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	STGEN	316.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	316.0
2017	2	58695	Coronal Development Services	IPP	Gulf Coast Solar Center I	FL	59689	GCSC1	30.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	30.0
2017	2	58695	Coronal Development Services	IPP	Gulf Coast Solar Center II	FL	59690	GCSC2	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2017	2	58695	Coronal Development Services	IPP	Gulf Coast Solar Center III	FL	59691	GCSC3	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2017	2	59979	Cotton Plains Wind I, LLC	IPP	Cotton Plains Wind Farm	TX	60210	CPWF	50.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.4
2017	2	59862	Durbin Creek	IPP	Durbin Creek Windfarm	OR	59492	DCW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2017	2	58909	Fremont Farm LLC	IPP	Fremont Farm	NC	59103	1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	2	59860	Jett Creek	IPP	Jett Creek Windfarm	OR	59490	JCW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2017	2	60155	Old Settler Wind, LLC	IPP	Old Settler Wind	TX	60366	OSWF	151.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	151.2
2017	2	59863	Prospector	IPP	Prospector Windfarm	OR	59493	PW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2017	2	59337	Sedberry Farm, LLC	IPP	Sedberry Farm	NC	59592	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	2	59864	Willow Spring	IPP	Willow Spring Windfarm	OR	59494	WSW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2017	3	59308	Bearford Farm, LLC	IPP	Bearford Farm Solar Project	NC	59567	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	3	58519	Clean Energy Collective LLC	IPP	Fairhaven C	MA	60423	FCPV	1.6	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.6
2017	3	58970	Ecoplexus, Inc	IPP	Flat Meeks PV 1	NC	59514	FLAT1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	5701	El Paso Electric Co	Electric Utility	Holloman Solar Facility	NM	60301	HPV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	59978	HXNAir Solar One LLC	IPP	HXNAir Solar One	NC	60209	HXNAI	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	60098	MS Solar 2, LLC	IPP	Sumrall I Solar Farm	MS	60306	SUM1	52.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	52.0
2017	3	17470	PUD 1 of Snohomish County	Electric Utility	Calligan Creek Hydroelectric Project	WA	60418	CC6MW		Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy JN, LLC	NM	60145	1	181.7	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	181.7
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy KW, LLC	NM	60152	1	142.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	142.6
2017	3	59967	Phoenix Energy	Electric CHP	North Fork Community Power	CA	60192	NFCP1	2.0	Other Waste Biomass	OBG	IC	(T) Regulatory approvals received. Not under construction	2.0
2017	4	59257	Giffen Solar Park, LLC	IPP	Giffen Solar Park	CA	59522	FRGSP	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	4	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3CT	324.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	365.5
2017	4	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3ST	191.8	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	204.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN1	230.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	232.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN2	230.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	232.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN3	314.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	338.0
2017	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT1	207.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	207.0
2017	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT2	207.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	207.0
2017	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	STG1	230.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	230.0
2017	4	59435	Innovative Solar 37, LLC	IPP	Innovative Solar 37	NC	59665	IS037	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG1	219.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	222.7
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG2	219.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	222.7
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	STG1	224.1	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	260.5
2017	4	60159	RES America Developments Inc	IPP	Lamesa Solar	TX	60372	LSPV1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2017	4	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 1	CA	59315	BEAC1	56.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	56.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT4	307.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	360.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT5	307.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	360.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	STG6	454.9	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	511.2
2017	5	59745	First Solar Asset Management	IPP	Playa Solar 2	NV	60261	GEN1	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2017	5	59155	First Wind O&M, LLC	IPP	Mililani South PV	HI	58281	1	14.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	14.7
2017	5	59898	Kawailoa Solar, LLC	IPP	Kawailoa Solar	HI	60125	KAWS	49.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	49.0
2017	5	59342	Maricopa West Solar PV 2, LLC	IPP	Maricopa West Solar 2	CA	59608	MWS2	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	5	12258	Medical Area Total Egy Plt Inc	Commercial	Medical Area Total Energy Plant	MA	10883	CT3	12.8	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	13.8
2017	5	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT1	310.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2017	5	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT2	310.3	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	310.3
2017	5	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	ST1	493.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	493.0
2017	5	59336	Schell Solar Farm, LLC	IPP	Schell Solar Farm	NC	59591	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	5	60246	Sunray Energy 2, LLC	IPP	Sunray 2	CA	10437	SUN2	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	5	60247	Sunray Energy 3 LLC	IPP	Sunray 3	CA	10438	SUN3	13.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	13.8
2017	5	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	1	19.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	19.0
2017	5	24211	Tucson Electric Power Co	Electric Utility	UASTP II	AZ	57717	UABA	10.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	10.0
2017	5	59764	Waipio PV, LLC	IPP	Waipio Solar	HI	60024	WPO	45.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	45.9
2017	6	60130	Albany Green Energy, LLC	Electric CHP	Albany Green Energy	GA	60340	1	42.0	Natural Gas Steam Turbine	NG	ST	(V) Under construction, more than 50 percent complete	50.0
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	56771	Black Hills Service Company LLC	IPP	Pueblo Airport Generating Station	CO	56998	CT08	37.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	40.0
2017	6	58662	Blue Mountain Power Partners	IPP	Blue Mountain Wind Farm	UT	58764	BM1	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2017	6	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG5	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2017	6	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG6	216.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	234.9
2017	6	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	STG2	395.1	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	419.6
2017	6	60096	Calvert Energy LLC	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	6	59365	Capital Power Corporation	IPP	CP Bloom Wind LLC	KS	59888	GEN	178.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	178.2
2017	6	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2017	6	60075	Climax Solar, LLC	IPP	Climax Solar	NC	60286	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	6	60076	Crawford Solar, LLC	IPP	Crawford Solar	NC	60294	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	6	60077	Crimson Solar, LLC	IPP	Crimson Solar	NC	60295	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	6	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT7	313.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	360.9
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT8	313.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	360.9
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	STG9	461.4	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	508.5
2017	6	59745	First Solar Asset Management	IPP	CA Flats Solar 130, LLC	CA	60033	GEN01	130.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	130.0
2017	6	56625	Flat Water Wind Farm LLC	IPP	Flat Water Wind Farm LLC	NE	57283	WTG2	10.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	10.5
2017	6	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor	MA	1626	5	340.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	340.0
2017	6	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor	MA	1626	6	340.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	340.0
2017	6	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor	MA	1626	7	217.5	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	240.7
2017	6	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor	MA	1626	8	217.5	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	240.7
2017	6	58959	Freeport LNG Development L.P	Industrial	Freeport LP Pretreatment Facility	TX	59145	65GTG	77.5	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	97.0
2017	6	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
2017	6	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
2017	6	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
2017	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
2017	6	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG11	256.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	328.0
2017	6	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG12	256.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	328.0
2017	6	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	STG10	334.6	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	404.0
2017	6	60070	Organ Church Solar	IPP	Organ Church Solar	NC	60284	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	6	59696	Soluga Farms IV	IPP	Soluga Farms IV	NC	59934	SFIV	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2017	6	60073	St. Matthews Solar, LLC	IPP	St. Matthews Solar	SC	60293	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	6	58960	Timberline Energy LLC	IPP	Front Range Project	CO	59143	FR-2	1.5	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2017	6	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH2	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2017	6	60192	Warbler Holdings, LLC	IPP	Warbler Holdings	NC	60393	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2017	6	60079	Whiteville Solar 2, LLC	IPP	Whiteville Solar 2	NC	60292	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	7	59594	Black Oak Wind Farm LLC	IPP	Black Oak Wind Farm	NY	59813	NA	16.1	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	16.1
2017	7	60078	Bladen Solar Farm, LLC	IPP	Bladen Solar Farm	NC	60296	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	7	60179	Duroc Holdings, LLC	IPP	Duroc Holdings	NC	60379	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	7	59362	Jericho Rise Wind Farm LLC	IPP	Jericho Rise Wind Farm LLC	NY	59629	GEN1	77.7	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	77.7
2017	7	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
2017	7	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
2017	7	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
2017	7	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
2017	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2017	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
2017	7	60193	Tamworth Holdings, LLC	IPP	Tamworth Holdings	NC	60394	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	8	60112	97WI 8ME, LLC	IPP	Midway Solar Farm III	CA	60315	MSF3	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	8	60042	Fluvanna Wind Energy LLC	IPP	Fluvanna	TX	59245	FLUV1	152.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	152.0
2017	8	58849	Mariah del Este LLC	IPP	Mariah East	TX	59006	MARN	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2017	8	56987	RRE Austin Solar LLC	IPP	Pflugerville Solar Farm	TX	57659	PSF	120.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	120.0
2017	9	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
2017	9	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
2017	9	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
2017	9	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
2017	9	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
2017	9	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
2017	9	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2017	9	59745	First Solar Asset Management	IPP	Playa Solar	NV	59827	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2017	9	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
2017	9	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
2017	9	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
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG1	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG2	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG3	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG4	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	60099	MS Solar 3, LLC	IPP	Sumrall II Solar Farm	MS	60303	SUM2	52.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	52.0
2017	9	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
2017	9	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
2017	9	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
2017	9	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
2017	9	19876	Virginia Electric & Power Co	Electric Utility	VA Offshore Wind Project (VOWTAP)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	12.0
2017	10	58695	Coronal Development Services	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	10	60025	Greenbacker Renewable Energy Corporation	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2017	10	60025	Greenbacker Renewable Energy Corporation	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Decatur Co. Solar RES (IN)	IN	59988	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Jackson Co. Solar RES	IN	59989	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Spring Mill Solar RES	IN	59987	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1
2017	10	58815	KDC Solar RTC LLC	IPP	Delilah Road Landfill	NJ	58951	DRLS	9.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	9.0
2017	10	58850	Mariah del Sur LLC	IPP	Mariah South	TX	59007	MAR S	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2017	10	60035	Michigan Wind 3, LLC	IPP	Michigan Wind 3	MI	60246	1	152.8	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	152.8
2017	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	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)
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT1	9.7	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT2	9.7	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT3	9.7	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT4	9.7	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	9.7
2017	10	59056	Tri Global Energy, LLC	IPP	Changing Winds	TX	59243	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	288.0
2017	10	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
2017	10	59056	Tri Global Energy, LLC	IPP	Fiber Winds	TX	59244	FIBE1	80.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	80.0
2017	10	59056	Tri Global Energy, LLC	IPP	Goodnight	TX	59246	GOOD1	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2017	10	59056	Tri Global Energy, LLC	IPP	Tex-Mex Renewable Energy Project, LLC	TX	60269	WT1	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2017	10	19876	Virginia Electric & Power Co	Electric Utility	Remington Solar Facility	VA	59685	01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	10	57028	West Butte Wind Power LLC	IPP	West Butte Wind Power Project	OR	57704	WB-1	104.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.5
2017	11	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT3	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2017	11	58574	Canton Mountain Wind LLC	IPP	Canton Mountain Wind	ME	58620	1	22.8	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	22.8
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT11	243.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	243.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT12	243.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	243.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	ST10	362.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	362.0
2017	11	57170	EDF Renewable Asset Holdings, Inc.	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	79.9
2017	11	60221	North Slope LLC	IPP	North Slope, LLC	NY	60420	NSPV	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2017	12	60074	Ajax Solar, LLC	IPP	Ajax Solar	NC	60288	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	58794	American Wind Energy Management Corp.	IPP	Sangamon Wind One LLC	IL	58925	SAN1	30.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	30.0
2017	12	58794	American Wind Energy Management Corp.	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
2017	12	59714	Antrim Wind Energy LLC	IPP	Antrim Wind	NH	59953	AWND1	28.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	28.8
2017	12	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT4	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2017	12	57003	Arlington Valley Solar Energy LLC	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	127.0
2017	12	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	210.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	210.0
2017	12	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
2017	12	59365	Capital Power Corporation	IPP	Cardinal Point LLC	IL	59902	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2017	12	59365	Capital Power Corporation	IPP	Hopeful Solar LLC	GA	59892	GEN	20.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.7
2017	12	59365	Capital Power Corporation	IPP	New Frontier Wind	ND	59903	GEN	99.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	99.0
2017	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
2017	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
2017	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
2017	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
2017	12	58508	Carolina Solar Energy II LLC	IPP	Tides Lane Farm	NC	60429	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.5
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.5
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	SGT1	288.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	361.3
2017	12	58998	Chapman Ranch Wind LLC	IPP	Chapman Ranch Wind I	TX	59193	CHA1	236.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	236.0
2017	12	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB001	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2017	12	59464	Current Energy Group	IPP	Hickory	NC	59829	5515	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	All Other	OTH	OT	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	All Other	OTH	OT	(U) Under construction, less than or equal to 50 percent complete	1.3
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	All Other	OTH	OT	(U) Under construction, less than or equal to 50 percent complete	1.7
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	65.0
2017	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STB	40.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	65.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Grandview Wind Farm III LLC	TX	59067	GVIII	188.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	188.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Magic Valley Wind Farm II	TX	59066	MVII	230.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	230.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Twin Forks Wind Farm LLC	IL	59061	WT1	351.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	351.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Vici Wind Farm	OK	59062	VICI	104.4	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.4
2017	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
2017	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
2017	12	58970	Ecoplexus, Inc	IPP	Manning PV 1	NC	59520	MANN	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	58970	Ecoplexus, Inc	IPP	Round Hill PV1	NC	59998	RNDHL	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	12	58970	Ecoplexus, Inc	IPP	Vaughn Creek PV1	NC	60001	VNCRK	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	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
2017	12	60147	Enerparc Solar Development, LLC	IPP	Neal Hawkins Rd	NC	60359	60916	4.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.3
2017	12	60147	Enerparc Solar Development, LLC	IPP	Pike Road Solar	NC	60360	51116	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	58672	Everpower Wind Holdings Inc	IPP	Buckeye Wind Farm	OH	58776	1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2017	12	58672	Everpower Wind Holdings Inc	IPP	Coyote Crest Wind Farm	WA	58778	1	126.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	126.0
2017	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
2017	12	58672	Everpower Wind Holdings Inc	IPP	Mason Dixon Wind Farm	PA	60212	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2017	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
2017	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
2017	12	58672	Everpower Wind Holdings Inc	IPP	Scioto Ridge Wind Farm	OH	58780	1	300.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	300.0
2017	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
2017	12	56615	First Solar Project Development	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2017	12	59155	First Wind O&M, LLC	IPP	Bowers Wind Project	ME	57088	1	48.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	48.0
2017	12	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	2	156.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	170.0
2017	12	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	3	156.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	170.0
2017	12	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	4	390.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	390.0
2017	12	60222	Haida Energy, Inc.	Electric Utility	Hilangaay Hydro	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	12	58901	Hydro Green Energy	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	5.3
2017	12	59439	Innovative Solar 54, LLC	IPP	Innovative Solar 54	NC	59669	IS054	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2017	12	59448	Innovative Solar 67, LLC	IPP	Innovative Solar 67	NC	59678	IS067	33.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	33.3
2017	12	60069	Jester Solar LLC	IPP	Jester Solar	NC	60290	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	59678	KDC Solar PR1, LLC	IPP	KDC Solar PR1, LLC	NJ	59910	SF	22.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	22.0
2017	12	56911	Kalaeloa Solar One LLC	IPP	Kalaeloa Solar One	HI	57569	KS1-A	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	12	60223	Ketchikan Electric Company	Electric Utility	Mahoney Lake Hydroelectric	AK	59027	GEN 1	9.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	9.6
2017	12	56939	Lexington Chenoa Wind Farm II LLC	IPP	Bright Stalk Wind Farm II	IL	57622	GEN1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2017	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
2017	12	11204	Los Alamos County	Electric Utility	Los Alamos PV Site	NM	58256	4	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	59343	Maricopa East Solar PV, LLC	IPP	Maricopa East Solar	CA	59609	MES	18.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	18.0
2017	12	56941	Meadow Lake Wind Farm V LLC	IPP	Meadow Lake Wind Farm V LLC	IN	57628	GEN1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2017	12	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	25.0
2017	12	56935	Number Nine Wind Farm LLC	IPP	Number Nine Wind Farm	ME	57612	GEN1	250.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	250.0
2017	12	56545	Pattern Operators LP	IPP	Grady Wind Energy Center, LLC	NM	60317	1	110.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.8
2017	12	56949	Paulding Wind Farm LLC	IPP	Paulding Wind Farm LLC	OH	57611	GEN1	49.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	49.0
2017	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
2017	12	60229	Quail Holdings, LLC	IPP	Quail Holdings	NC	60434	PV1	25.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	25.0
2017	12	56424	Quilt Block Wind Farm LLC	IPP	Quilt Block Wind Farm LLC	WI	57116	GEN 1	98.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	98.0
2017	12	59701	RE Tranquillity 8 LLC	IPP	RE Tranquillity 8	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	205.3
2017	12	58843	Searchlight Wind Energy LLC	IPP	Searchlight Wind	NV	58988	1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2017	12	57331	Soitec Solar Development LLC	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2017	12	59080	Soleil Energy Solutions, LLC	IPP	Westside Solar Farm	NC	59258	WEST1	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2017	12	58860	Southbridge Recycling and Disposal Park, Inc	IPP	Southbridge Landfill Gas-to-Energy	MA	59011	CAT2	1.5	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2017	12	59056	Tri Global Energy, LLC	IPP	Bearkat	TX	59972	BRKAT	360.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	360.0
2017	12	59056	Tri Global Energy, LLC	IPP	Blue Cloud Renewable Energy Project, LLC	TX	60270	WT1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2017	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
2017	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
2017	12	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
2017	12	58761	White Camp Solar LLC	IPP	White Camp Solar	TX	58888	WCAMP	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2017	12	60072	Willard Solar, LLC	IPP	Willard Solar	NC	60287	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	1	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Landfill	NC	57492	GEN7	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2018	1	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Landfill	NC	57492	GEN8	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2018	1	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
2018	1	56204	Diamond Generating Corporation - Operations, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG1	198.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	1	56204	Diamond Generating Corporation - Operations, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG2	198.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.0
2018	1	56204	Diamond Generating Corporation - Operations, LLC	IPP	CPV Valley Energy Center	NY	56940	STG	308.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	CA1	388.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT1	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT2	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT2	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT3	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT4	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT5	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT6	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT7	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG1	226.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.2
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG2	226.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.2
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG3	226.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.2
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	STG	417.6	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	460.0
2018	1	60159	RES America Developments Inc	IPP	Lamesa Solar	TX	60372	LSPV2	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	1	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.6
2018	1	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
2018	2	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	2	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
2018	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
2018	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
2018	2	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
2018	2	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
2018	2	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
2018	2	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
2018	2	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE2	240.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	240.0
2018	2	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
2018	2	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
2018	2	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
2018	3	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2018	3	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	3	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
2018	3	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
2018	3	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
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN8	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	187.0
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN9	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	187.0
2018	3	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CA1	388.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2018	3	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT1	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	3	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT2	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S1	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S2	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S3	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S4	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S5	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S6	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	215.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	238.0
2018	3	59260	Wright Solar Park, LLC	IPP	Wright Solar Park	CA	59525	FRWSP	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2018	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	4	59683	Rockwood Energy Center LLC	IPP	Rockwood Energy Center LLC	TX	59918	ROCKW	1,068.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,068.0
2018	4	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
2018	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
2018	4	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	1	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	4	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	2	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	235.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	285.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	235.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	285.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	280.5	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	280.5
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC1ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	364.7
2018	5	59283	Gateway Energy Center, LLC	IPP	Gateway Energy Center, LLC	NJ	59538	CT001	442.8	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	440.0
2018	5	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN1	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN1	490.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	529.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN2	490.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	529.0
2018	5	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG1	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2018	5	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG2	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	10	327.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	359.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	11	214.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	235.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	12	214.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	235.0
2018	6	59687	AltaGas Sonoran Energy Inc	IPP	Sonoran Energy Project	CA	59925	GEN1	510.7	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	553.0
2018	6	2338	Calpine Central LP	IPP	Mankato Energy Center	MN	56104	CTG1	200.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	210.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG1	257.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	269.5
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG2	257.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	269.5
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	STG1	336.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	337.0
2018	6	58597	Enivromission, Inc	IPP	La Paz Solar Tower	AZ	58652	1	200.0	Solar Thermal without Energy Storage	SUN	OT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2018	6	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	4	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	100.0
2018	6	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	5	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	100.0
2018	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2018	6	60050	Halyard Energy Henderson, LLC	IPP	Halyard Henderson Energy Center	TX	60268	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2018	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN1	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2018	6	60002	Halyard Energy Wharton, LLC	IPP	Halyard Wharton Energy Center	TX	60221	TBN2	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	232.0
2018	6	49893	Invenergy Services LLC	IPP	Invenergy Nelson Expansion LLC	IL	60387	GEN3	157.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	190.0
2018	6	49893	Invenergy Services LLC	IPP	Invenergy Nelson Expansion LLC	IL	60387	GEN4	157.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	190.0
2018	6	49805	Kennecott Utah Copper	Industrial	Kennecott Power Plant	UT	56163	5CTG	176.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	207.9
2018	6	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	244.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	301.5
2018	6	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	208.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	234.0
2018	6	59101	NTE Texas, LLC	IPP	Pecan Creek Energy Center	TX	59298	PCEC1	133.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	171.8
2018	6	59101	NTE Texas, LLC	IPP	Pecan Creek Energy Center	TX	59298	PCEC2	133.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	171.8
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-2	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-3	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-1	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	701	321.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	430.0
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	702	219.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	287.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT1	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT2	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT3	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT4	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	238.0
2018	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	238.0
2018	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST1	245.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	260.0
2018	6	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	6	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2018	7	56615	First Solar Project Development	IPP	CA Flats Solar 150, LLC	CA	60034	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2018	7	54863	U S Power Generating Company LLC	IPP	Gowanus Gas Turbines Generating	NY	2494	SS	90.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	93.0
2018	8	56615	First Solar Project Development	IPP	Snow Mountain Solar, LLC	NV	59935	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	10	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC2ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	364.7
2018	10	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	244.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	301.5
2018	10	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	208.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	234.0
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 7	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 8	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 9	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC10	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC11	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	12	58794	American Wind Energy Management Corp.	IPP	Sangamon Wind Two LLC	IL	58926	SAN2	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	02B	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	03A	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	59992	Caprock Solar 2, LLC	IPP	Caprock Solar 2 LLC	NM	59846	PV1	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	2	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	59432	Clear Creek Power	IPP	Highland Park Project	CO	59659	HPWT	198.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	198.0
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	ST	191.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	227.7
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	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
2018	12	59745	First Solar Asset Management	IPP	Cuyama Solar, LLC	CA	60043	GEN01	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2018	12	56615	First Solar Project Development	IPP	Portal Ridge Solar A, LLC	CA	60309	GEN01	18.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	18.5
2018	12	56615	First Solar Project Development	IPP	Willow Spring Solar 3, LLC	CA	60325	GEN01	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2018	12	56615	First Solar Project Development	IPP	Willow Spring Solar, LLC	CA	60324	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	58146	Gaelectric LLC	IPP	Jawbone Wind Project	MT	58175	JWPI	131.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	131.1
2018	12	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN2	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-1	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-2	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-3	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-4	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-5	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-6	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	ST-1	50.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	51.0
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	ST-2	50.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	51.0
2018	12	56911	Kalaeloa Solar One LLC	IPP	Kalaeloa Solar One	HI	57569	KS1-B	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58763	LotusWorks-Summit Ridge I, LLC	IPP	Summit Ridge I Wind Farm	OR	58894	SRWF	192.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	192.0
2018	12	55983	Luminant Generation Company LLC	IPP	Horseshoe Bend	TX	59806	SOLAR	140.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	140.0
2018	12	4202	Phillips 66-Ponca City Refinery	Industrial	Ponca City Refinery	OK	52188	G1A	3.0	Other Gases	OG	ST	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	56069	SunCoke Energy, Inc.	Industrial	SunCoke Energy South Shore Facility	KY	60373	SSST6	60.0	Conventional Steam Coal	BIT	ST	(T) Regulatory approvals received. Not under construction	90.0
2018	12	2782	Terra-Gen Operating Company	IPP	Dixie Valley Power Partnership	NV	10681	GEN1	25.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	28.0
2018	12	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	59056	Tri Global Energy, LLC	IPP	Cone Renewable Energy Project, LLC	TX	60272	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST	(U) Under construction, less than or equal to 50 percent complete	17.0
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT01	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT02	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT03	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	ST01	611.8	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	663.9
2019	1	56794	CE Obsidian Energy LLC	IPP	Black Rock I	CA	57477	G3201	60.0	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	70.0
2019	1	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN3	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2019	3	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	160.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	160.0
2019	4	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	GT1	232.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2019	4	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	ST1	108.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	108.0
2019	4	15473	Public Service Co of NM	Electric Utility	La Luz Energy Center	NM	58284	0002	40.2	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	42.3
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT1	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT2	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT3	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT4	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	59111	Crawford Renewable Energy, LLC	IPP	Crawford Renewable Energy - Meadville Po	PA	59307	MPS	93.5	All Other	TDF	ST	(U) Under construction, less than or equal to 50 percent complete	99.5
2019	5	59677	Middlesex Energy Center LLC	IPP	Middlesex Energy Center LLC	NJ	59909	CT001	560.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	560.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	75.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	75.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2019	6	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC1	158.5	Natural Gas wth Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2019	6	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC2	158.5	Natural Gas wth Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2019	6	7277	Calpine Corporation	IPP	Wild Horse Power Plant	CA	57181	1	40.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	48.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	CT1	235.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	242.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	ST1	198.5	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	214.0
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1A	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1B	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1C	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1ST	593.3	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	593.3
2019	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCA1	224.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	321.6
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT1	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT2	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2019	6	21461	NRG Canal LLC	IPP	Canal	MA	1599	3	330.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	330.0
2019	6	54866	Robinson Power Company LLC	IPP	Robinson Power Company LLC	PA	56453	CTG1	950.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,025.0
2019	6	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	2	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG1	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG2	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	ST1	215.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	255.0
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG01	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG02	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG03	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG04	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG05	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG06	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2019	9	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	PVGEN	70.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	70.0
2019	10	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	CPEC1	680.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	680.0
2019	10	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	345.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	390.0
2019	10	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	345.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	390.0
2019	10	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	345.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	390.0
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	12	59365	Capital Power Corporation	IPP	Garrison Butte Wind, LLC	ND	60066	GEN	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0

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	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT1	301.5	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	319.5
2019	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT2	301.5	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	319.5
2019	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	ST	187.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	187.0
2019	12	56215	E ON Climate Renewables N America LLC	IPP	Magic Valley Wind Farm III LLC	TX	60362	MVIII	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm II	TX	59064	WT1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2019	12	56615	First Solar Project Development	IPP	North Rosamond Solar LLC	CA	59879	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2019	12	56615	First Solar Project Development	IPP	Sunshine Valley Solar	NV	59826	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	40.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TGB1	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TGB2	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	1	156.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	170.0
2019	12	56094	Medicine Bow Fuel & Power LLC	IPP	Medicine Bow Fuel & Power LLC	WY	56452	1	350.0	Conventional Steam Coal	BIT	ST	(P) Planned for installation, but regulatory approvals not initiated	350.0
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	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	687.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	687.0
2019	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1A	274.0	Other Gases	OG	CT	(T) Regulatory approvals received. Not under construction	274.0
2019	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1B	126.0	Other Gases	OG	CA	(T) Regulatory approvals received. Not under construction	126.0
2019	12	56709	Turning Point Solar LLC	IPP	Turning Point Solar	OH	57371	TPS50	44.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	44.0
2020	1	56794	CE Obsidian Energy LLC	IPP	Black Rock II	CA	57478	G3202	60.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	70.0
2020	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,105.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	250.0
2020	5	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT5	42.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.0
2020	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	4	282.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	321.0
2020	5	18454	Tampa Electric Co	Electric Utility	Tampa Electric Co NA 2	FL	56352	1	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	220.0
2020	6	60118	83WI 8ME, LLC	IPP	Midway Solar Farm 1	CA	60336	MSF1	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2020	6	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	49846	Covanta Honolulu Resource Recovery	Commercial	H Power	HI	10334	PV1	2.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.1
2020	6	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
2020	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
2020	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
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCA1	205.4	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	207.4
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCT1	319.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	371.5
2020	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCA1	302.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	331.5
2020	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT1	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2020	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT2	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2020	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	4	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	6	56167	Imperial Valley Solar, LLC	IPP	Imperial Valley Solar, LLC	CA	56917	2	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2020	6	59588	Lake Creek 3 Power Company LLC	IPP	Lake Creek	TX	3502	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT5	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT6	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	6	56883	Tradinghouse Power Company LLC	IPP	Tradinghouse	TX	3506	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	56883	Tradinghouse Power Company LLC	IPP	Tradinghouse	TX	3506	CT2	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	7	58758	CPV Smyth Generation Company LLC	IPP	CPV Smyth Generation Company LLC	VA	58878	1	989.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	1,017.0
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	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	10	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	5580	East Kentucky Power Coop, Inc	Electric Utility	Green Valley LFGTE	KY	56278	4	0.8	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	0.8
2020	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	7277	Calpine Corporation	IPP	Telephone Flat	CA	55846	1	42.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	49.9
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	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	8	209.5	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	209.5
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	9	209.5	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	108.8
2020	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	813.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	813.0
2020	12	19316	Two Elk Generation Partners LP	IPP	Two Elk Generating Station	WY	55360	GEN1	275.0	Conventional Steam Coal	WC	ST	(U) Under construction, less than or equal to 50 percent complete	320.0
2021	1	56794	CE Obsidian Energy LLC	IPP	Black Rock III	CA	57479	G303	60.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	70.0
2021	4	55927	Power4Georgians LLC	Electric Utility	Plant Washington	GA	56675	MAIN	850.0	Conventional Steam Coal	SUB	ST	(T) Regulatory approvals received. Not under construction	850.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS1	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS3	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS2	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS4	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT1	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT2	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	ST1	344.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2022	12	56943	Blackstone Wind Farm III LLC	IPP	Blackstone Wind Farm III	IL	57618	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	12	56944	Blackstone Wind Farm IV LLC	IPP	Blackstone Wind Farm IV	IL	57619	GEN1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	12	7277	Calpine Corporation	IPP	Four Mile Hill	CA	55845	1	42.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	49.9
2022	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-A	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2022	12	56425	Simpson Ridge Wind Farm LLC	IPP	Simpson Ridge Wind Farm LLC	WY	57117	GEN 1	50.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS5	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
2023	5	18454	Tampa Electric Co	Electric Utility	Tampa Electric Co NA 2	FL	56352	2	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	220.0
2023	12	57470	Noble Energy Systems, Inc.	IPP	Pea Patch Wind Farm	MD	58087	PEAP	50.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.0
2023	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-B	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a signifciant portion of capacity for some technologies such as solar photovoltaic generation.
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 6.6. 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
2016	7	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2016	7	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2016	7	18947	City of Tipton - (IA)	Electric Utility	Tipton	IA	8106	4	0.3	Petroleum Liquids	DFO	IC
2016	7	12686	Mississippi Power Co	Electric Utility	Sweatt	MS	2048	1	46.0	Natural Gas Steam Turbine	NG	ST
2016	7	12686	Mississippi Power Co	Electric Utility	Sweatt	MS	2048	2	46.0	Natural Gas Steam Turbine	NG	ST
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J98	1.0	Landfill Gas	LFG	IC
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U4J08	1.4	Landfill Gas	LFG	IC
2016	8	14534	City of Pasadena - (CA)	Electric Utility	Broadway (CA)	CA	420	B3	71.0	Natural Gas Steam Turbine	NG	ST
2016	8	7140	Georgia Power Co	Electric Utility	Kraft	GA	733	PWA	17.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	8	7140	Georgia Power Co	Electric Utility	Mitchell (GA)	GA	727	3	155.0	Conventional Steam Coal	BIT	ST
2016	8	7140	Georgia Power Co	Electric Utility	Mitchell (GA)	GA	727	4A	31.0	Petroleum Liquids	DFO	GT
2016	8	7140	Georgia Power Co	Electric Utility	Mitchell (GA)	GA	727	4B	31.0	Petroleum Liquids	DFO	GT
2016	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3	103.8	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	1	1.3	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	2	1.3	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	3	1.3	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	4	1.2	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	5	1.2	Conventional Hydroelectric	WAT	HY
2016	10	6035	Exelon Power	IPP	Exelon L Street	MA	1587	GT1	16.0	Petroleum Liquids	DFO	GT
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2016	10	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN1	0.4	Other Waste Biomass	OBG	IC
2016	10	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN2	0.4	Other Waste Biomass	OBG	IC
2016	10	20838	Win-Sam Inc	Commercial	University of Texas at San Antonio	TX	54606	GEN1	3.3	Natural Gas Internal Combustion Engine	NG	IC
2016	11	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	1	28.0	Natural Gas Steam Turbine	NG	ST
2016	11	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	2	29.0	Natural Gas Steam Turbine	NG	ST
2016	11	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	3	71.0	Natural Gas Steam Turbine	NG	ST
2016	11	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	1TG	10.5	Wood/Wood Waste Biomass	BLQ	ST
2016	11	14127	Omaha Public Power District	Electric Utility	Fort Calhoun	NE	2289	1	478.1	Nuclear	NUC	ST
2016	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	1	200.0	Conventional Steam Coal	BIT	ST
2016	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	2	200.0	Conventional Steam Coal	BIT	ST
2016	12	5347	Dow Chemical Co	Industrial	LaO Energy Systems	LA	52006	GEN7	95.0	Natural Gas Fired Combined Cycle	NG	CT
2016	12	7160	Geysers Power Co LLC	IPP	West Ford Flat Power Plant	CA	10199	WFF1	15.0	Geothermal	GEO	ST
2016	12	7160	Geysers Power Co LLC	IPP	West Ford Flat Power Plant	CA	10199	WFF2	15.0	Geothermal	GEO	ST
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	El Cajon	CA	301	ENCI	16.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	ST1	106.0	Natural Gas Steam Turbine	NG	ST
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	Kearny	CA	303	KEA3	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	Miramar	CA	305	MRGT	36.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	GT7	7.3	Natural Gas Fired Combustion Turbine	NG	GT
2017	1	5943	Entergy Nuc Fitzpatrick LLC	IPP	James A Fitzpatrick	NY	6110	1	836.8	Nuclear	NUC	ST
2017	2	13407	Nevada Power Co	Electric Utility	Reid Gardner	NV	2324	4	257.0	Conventional Steam Coal	BIT	ST
2017	2	57440	SABIC IP Mt. Vernon, LLC	Industrial	SABIC Innovative Plastics Mt. Vernon	IN	58063	1	3.0	Conventional Steam Coal	BIT	ST
2017	3	54843	WM Illinois Renewable Energy LLC	IPP	Lake Gas Recovery	IL	50575	GEN2	2.9	Landfill Gas	LFG	GT
2017	3	54843	WM Illinois Renewable Energy LLC	IPP	Lake Gas Recovery	IL	50575	GEN3	2.9	Landfill Gas	LFG	GT
2017	3	54842	WM Renewable Energy LLC	IPP	BJ Gas Recovery	GA	54392	GEN1	0.8	Landfill Gas	LFG	IC
2017	3	54842	WM Renewable Energy LLC	IPP	BJ Gas Recovery	GA	54392	GEN3	0.8	Landfill Gas	LFG	IC
2017	3	54842	WM Renewable Energy LLC	IPP	Monroe Livingston Gas Recovery	NY	50565	GEN2	0.8	Landfill Gas	LFG	IC
2017	4	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2017	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	ST
2017	5	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2017	5	7570	Great River Energy	Electric Utility	Stanton	ND	2824	1	188.1	Conventional Steam Coal	SUB	ST
2017	5	7570	Great River Energy	Electric Utility	Stanton	ND	2824	2	1.0	Petroleum Liquids	DFO	IC
2017	5	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	4	16.9	Petroleum Liquids	KER	GT
2017	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	2	150.0	Conventional Steam Coal	BIT	ST
2017	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	3	148.0	Petroleum Liquids	RFO	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	1	225.2	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	2	237.8	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	3	575.0	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	4	435.0	Petroleum Liquids	RFO	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	3	31.1	Natural Gas Steam Turbine	NG	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	4	37.5	Natural Gas Steam Turbine	NG	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC1	2.0	Petroleum Liquids	DFO	IC
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC2	1.4	Petroleum Liquids	DFO	IC
2017	6	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	1	17.5	Natural Gas Steam Turbine	NG	ST
2017	6	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	2	17.9	Natural Gas Steam Turbine	NG	ST
2017	6	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	1	628.0	Conventional Steam Coal	BIT	ST
2017	6	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	2	602.0	Conventional Steam Coal	BIT	ST
2017	6	54842	WM Renewable Energy LLC	IPP	New Milford Gas Recovery	CT	50564	GEN4	0.8	Landfill Gas	LFG	IC
2017	7	13781	Northern States Power Co - Minnesota	Commercial	United Hospital	MN	7378	1	1.6	Petroleum Liquids	DFO	IC
2017	7	13781	Northern States Power Co - Minnesota	Commercial	United Hospital	MN	7378	2	1.6	Petroleum Liquids	DFO	IC
2017	7	13781	Northern States Power Co - Minnesota	Commercial	United Hospital	MN	7378	3	1.6	Petroleum Liquids	DFO	IC
2017	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4	103.8	Conventional Hydroelectric	WAT	HY
2017	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT1	0.5	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT2	0.3	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT3	0.3	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT4	0.3	Landfill Gas	LFG	IC
2017	12	463	Ameresco LFG I Inc	IPP	Al Turi	NY	10549	3010	0.8	Landfill Gas	LFG	IC
2017	12	56730	Cedar Bay Operating Services LLC	Electric CHP	Cedar Bay Generating Company LP	FL	10672	GEN1	250.0	Conventional Steam Coal	BIT	ST
2017	12	3989	City of Colorado Springs - (CO)	Electric Utility	Martin Drake	CO	492	5	46.0	Conventional Steam Coal	SUB	ST
2017	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	83.0	Natural Gas Fired Combined Cycle	NG	CA
2017	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	72.0	Natural Gas Fired Combined Cycle	NG	CT
2017	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	72.0	Natural Gas Fired Combined Cycle	NG	CT
2017	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	7	46.0	Natural Gas Steam Turbine	NG	ST
2017	12	7160	Geysers Power Co LLC	IPP	Geysers Unit 5-20	CA	286	U10	30.0	Geothermal	GEO	ST
2017	12	7160	Geysers Power Co LLC	IPP	Geysers Unit 5-20	CA	286	U9	30.0	Geothermal	GEO	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.4	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	16.1	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	1	2.1	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	2	1.8	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	3	1.9	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT1	21.6	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT2	25.7	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	1	13.2	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	3	85.2	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	1	23.7	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	2	20.6	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	1	27.9	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	3	80.8	Natural Gas Steam Turbine	NG	ST
2017	12	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-01	2.0	Petroleum Liquids	DFO	IC
2017	12	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-02	2.0	Petroleum Liquids	DFO	IC
2017	12	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-03	2.0	Petroleum Liquids	DFO	IC

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	12	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-04	2.0	Petroleum Liquids	DFO	IC
2017	12	58100	Middle Tennessee State University	Commercial	MTSU Power Co-Gen Plant	TN	58179	SG-05	2.0	Petroleum Liquids	DFO	IC
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	2	104.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	3	110.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	4	300.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	5	330.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	59099	New Dimension Energy Company, LLC	IPP	Altamont Midway Ltd	CA	50001	WTGS	10.9	Onshore Wind Turbine	WND	WT
2017	12	59099	New Dimension Energy Company, LLC	IPP	Dyer Road	CA	50818	GEN1	10.5	Onshore Wind Turbine	WND	WT
2017	12	59099	New Dimension Energy Company, LLC	IPP	Santa Clara (85C)	CA	50534	WGNS	18.0	Onshore Wind Turbine	WND	WT
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	3	121.0	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	4	259.0	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN1	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN2	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN4	5.2	Natural Gas Steam Turbine	NG	ST
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Balch 2	CA	218	2	52.5	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Balch 2	CA	218	3	52.5	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
2017	12	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	5	184.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	2	340.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	3	497.0	Conventional Steam Coal	BIT	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	1	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	2	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	3	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	4	107.0	Conventional Steam Coal	SUB	ST
2018	1	12541	City of Milford - (IA)	Electric Utility	Milford	IA	1164	1	0.6	Petroleum Liquids	DFO	IC
2018	1	12541	City of Milford - (IA)	Electric Utility	Milford	IA	1164	4	0.5	Petroleum Liquids	DFO	IC
2018	1	17891	City of St Marys - (OH)	Electric Utility	St Marys	OH	2942	7	12.0	Petroleum Liquids	DFO	GT
2018	4	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT2	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	6455	Duke Energy Florida, Inc	Electric Utility	Crystal River	FL	628	1	370.0	Conventional Steam Coal	BIT	ST
2018	4	6455	Duke Energy Florida, Inc	Electric Utility	Crystal River	FL	628	2	499.0	Conventional Steam Coal	BIT	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	1	102.8	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	2	118.0	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	3	106.2	Natural Gas Steam Turbine	NG	ST
2018	5	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	4	123.6	Natural Gas Steam Turbine	NG	ST
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	7	7308	Hawkeye Energy Greenport LLC	IPP	Hawkeye Energy Greenport LLC	NY	55969	U-01	52.7	Petroleum Liquids	KER	GT
2018	7	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	1	0.8	Conventional Hydroelectric	WAT	HY
2018	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8	103.8	Conventional Hydroelectric	WAT	HY
2018	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	1	113.0	Natural Gas Steam Turbine	NG	ST
2018	10	56997	Marina Energy LLC	Commercial	Stockton Athletic Center	NJ	57864	2LOT7	0.5	Solar Photovoltaic	SUN	PV
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG1	163.0	Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG2		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	GTG3		Natural Gas Fired Combined Cycle	NG	CT
2018	10	56516	Morris Energy Operations Company, LLC	Electric CHP	Bayonne Plant Holding LLC	NJ	50497	STG1		Natural Gas Fired Combined Cycle	NG	CA
2018	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	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	ST
2018	12	13781	Northern States Power Co - Minnesota	Electric Utility	Northern States Flambeau	WI	3984	1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	302.4	Conventional Steam Coal	SUB	ST
2019	6	29926	Entergy Nuclear Generation Co	IPP	Pilgrim Nuclear Power Station	MA	1590	1	682.3	Nuclear	NUC	ST
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	2	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	Natural Gas Steam Turbine	NG	ST
2019	10	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1	225.8	Natural Gas Steam Turbine	NG	ST
2019	10	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	7	480.0	Natural Gas Steam Turbine	NG	ST
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	1	189.0	Conventional Steam Coal	BIT	ST
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	2	189.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	1	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	2	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	1	64.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	2	66.0	Conventional Steam Coal	BIT	ST
2019	12	56706	Chevron Technology Ventures	IPP	Questa Solar Facility	NM	57369	QST	1.0	Solar Photovoltaic	SUN	PV
2019	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant	CA	260	6	754.0	Natural Gas Steam Turbine	NG	ST
2019	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant	CA	260	7	755.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	102.0	Natural Gas Steam Turbine	NG	ST
2019	12	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	607.7	Nuclear	NUC	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	1	49.8	Conventional Steam Coal	SUB	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	47.1	Conventional Steam Coal	SUB	ST
2019	12	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
2019	12	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	1	71.0	Natural Gas Steam Turbine	NG	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	1	38.0	Natural Gas Steam Turbine	NG	ST
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	24.8	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.4	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	44.1	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	44.6	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	28.4	Natural Gas Fired Combustion Turbine	NG	GT
2020	1	21622	The University of Texas at Dallas	Commercial	University of Texas at Dallas	TX	54607	GEN1	3.5	Natural Gas Internal Combustion Engine	NG	IC
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	78.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	8	78.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	9	78.0	Conventional Steam Coal	SUB	ST
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Higgins	FL	630	P1	20.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Higgins	FL	630	P2	25.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Higgins	FL	630	P3	32.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Higgins	FL	630	P4	32.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	2	173.0	Conventional Steam Coal	BIT	ST
2020	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	3	173.0	Conventional Steam Coal	BIT	ST
2020	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	ST1	173.0	Conventional Steam Coal	BIT	ST
2020	6	58177	Raven Power Holdings LLC	IPP	CP Crane Power, LLC	MD	1552	1	190.0	Conventional Steam Coal	SUB	ST
2020	6	58177	Raven Power Holdings LLC	IPP	CP Crane Power, LLC	MD	1552	2	195.0	Conventional Steam Coal	SUB	ST
2020	6	58177	Raven Power Holdings LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	BIT	ST
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	6	495.0	Natural Gas Steam Turbine	NG	ST
2020	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	2	225.8	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	5	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	6	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	8	480.0	Natural Gas Steam Turbine	NG	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	174.0	Natural Gas Steam Turbine	NG	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	177.0	Natural Gas Steam Turbine	NG	ST
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D1	0.2	Petroleum Liquids	DFO	IC
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D2	0.1	Petroleum Liquids	DFO	IC
2020	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	2	90.0	Natural Gas Steam Turbine	NG	ST
2020	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	1	670.0	Conventional Steam Coal	SUB	ST
2021	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	1	76.0	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	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	3	80.0	Conventional Steam Coal	SUB	ST
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	10	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	86.0	Natural Gas Steam Turbine	NG	ST
2021	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	4	96.3	Conventional Steam Coal	SUB	ST
2021	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	2	164.0	Conventional Steam Coal	SUB	ST
2021	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	3	176.0	Conventional Steam Coal	SUB	ST
2021	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	SUB	ST
2022	1	59409	Eco Services Operations LLC	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	WH	ST
2022	8	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	Natural Gas Steam Turbine	NG	ST
2022	9	177	AES Hawaii Inc	Electric CHP	AES Hawaii	HI	10673	GEN1	180.0	Conventional Steam Coal	BIT	ST
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	1	6.2	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	2	6.4	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	3	6.9	Conventional Hydroelectric	WAT	HY
2022	11	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	3	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	4	61.0	Petroleum Liquids	DFO	GT
2022	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	2	682.0	Conventional Steam Coal	SUB	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY1	0.7	Conventional Hydroelectric	WAT	HY
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY2	0.7	Conventional Hydroelectric	WAT	HY
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT1	1.5	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT2	1.8	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT3	1.8	Landfill Gas	LFG	IC
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTA	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTB	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTC	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	STM	24.0	Natural Gas Fired Combined Cycle	NG	CA
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTA	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTB	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTC	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	STM	28.0	Natural Gas Fired Combined Cycle	NG	CA
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	1	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	2	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	3	36.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Blue Lake	MN	8027	4	39.0	Petroleum Liquids	DFO	GT
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	1	9.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	French Island	WI	4005	2	7.0	Wood/Wood Waste Biomass	WDS	ST
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Laverne Battery	MN	58579	1	1.0	Batteries	MWH	BA
2023	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	6	167.8	Natural Gas Steam Turbine	NG	ST
2023	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	2	106.0	Natural Gas Steam Turbine	NG	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN1	18.0	Natural Gas Steam Turbine	NG	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN3	18.0	Natural Gas Steam Turbine	NG	ST
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	1	0.4	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	3	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Apple River	WI	6231	4	0.5	Conventional Hydroelectric	WAT	HY
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	1	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	2	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	3	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	13781	Northern States Power Co - Minnesota	Electric Utility	Granite City	MN	1910	4	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2024	12	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	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	1	0.4	Conventional Hydroelectric	WAT	HY
2025	11	13781	Northern States Power Co - Minnesota	Electric Utility	Trego	WI	4012	2	0.3	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	1	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Angus Anson	SD	7237	2	90.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Saxon Falls	WI	1756	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Sherburne County	MN	6090	1	680.0	Conventional Steam Coal	SUB	ST
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	1	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Superior Falls	MI	1757	2	0.5	Conventional Hydroelectric	WAT	HY
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	1	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	2	55.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	3	44.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	4	47.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	5	52.0	Petroleum Liquids	DFO	GT
2025	12	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton	WI	4014	6	48.0	Petroleum Liquids	DFO	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Carlsbad	NM	2453	5	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	2	183.0	Natural Gas Steam Turbine	NG	ST
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	2	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	3	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	2	670.0	Conventional Steam Coal	SUB	ST
2028	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	1	125.0	Conventional Steam Coal	BIT	ST
2028	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	2	125.0	Conventional Steam Coal	BIT	ST
2034	6	58944	Enerparc CA 1, LLC	IPP	Enerparc CA1 LLC	CA	59122	ECA11	1.5	Solar Photovoltaic	SUN	PV
2045		195	Alabama Power Co	Electric Utility	Holt Dam	AL	12	1	45.0	Conventional Hydroelectric	WAT	HY

NOTES:

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

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

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

Table 6.7.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels, January 2013-June 2016

	Coal	Natural Gas				Petroleum		
Period		Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Steam Turbine	Petroleum Liquids Fired Combustion Turbine	Internal Combustion Engine
Annual Factors								
2013	59.7%	48.2%	4.9%	10.6%	6.1%	12.1%	0.8%	2.2%
2014	61.0%	48.3%	5.2%	10.4%	8.5%	12.5%	1.1%	1.4%
2015	54.6%	56.3%	6.7%	11.7%	NA	14.7%	1.3%	7.5%
Year 2014								
January	71.2%	47.2%	6.6%	10.0%	7.8%	19.5%	3.8%	2.3%
February	71.9%	42.5%	4.7%	9.2%	8.7%	12.0%	0.9%	1.5%
March	61.7%	39.7%	4.7%	7.2%	7.1%	13.7%	1.1%	1.4%
April	51.1%	40.3%	3.8%	7.2%	7.9%	9.4%	0.5%	1.0%
May	54.1%	45.0%	5.0%	9.8%	7.8%	10.2%	0.6%	1.6%
June	64.8%	51.1%	5.4%	11.8%	7.6%	14.8%	0.9%	1.3%
July	67.9%	57.7%	6.2%	15.2%	9.7%	15.0%	1.0%	1.5%
August	67.5%	61.0%	6.6%	16.9%	11.0%	14.4%	1.3%	1.5%
Sept	59.2%	55.4%	5.7%	12.7%	9.5%	13.5%	0.7%	1.4%
October	50.7%	49.0%	5.2%	10.6%	8.8%	8.6%	0.7%	1.3%
November	56.0%	43.7%	4.5%	7.6%	8.3%	7.7%	0.8%	1.2%
December	56.6%	46.2%	4.1%	5.9%	7.2%	10.7%	0.6%	1.1%
Year 2015								
January	62.0%	53.2%	4.0%	6.7%	NA	13.4%	0.6%	8.2%
February	65.4%	52.8%	6.0%	8.8%	NA	23.4%	1.7%	6.7%
March	50.6%	51.1%	4.9%	8.6%	NA	8.9%	0.7%	5.5%
April	42.9%	48.3%	5.6%	10.3%	NA	12.8%	1.1%	7.1%
May	49.8%	50.6%	6.9%	9.9%	NA	13.7%	1.4%	7.1%
June	62.5%	61.8%	8.3%	14.0%	NA	13.6%	1.3%	6.5%
July	66.7%	67.7%	10.7%	19.9%	NA	18.6%	1.6%	9.2%
August	64.7%	67.6%	8.7%	19.6%	NA	18.5%	1.5%	10.3%
Sept	58.5%	61.9%	7.9%	15.0%	NA	17.4%	1.5%	7.3%
October	46.8%	54.0%	6.4%	10.8%	NA	15.0%	1.2%	6.9%
November	43.7%	51.4%	7.0%	8.3%	NA	11.3%	2.4%	7.0%
December	43.1%	55.1%	4.4%	8.0%	NA	10.6%	1.3%	8.1%
Year 2016								
January	55.4%	56.3%	4.4%	7.1%	NA	11.3%	0.5%	9.5%
February	48.1%	53.8%	4.4%	6.7%	NA	11.2%	0.5%	6.4%
March	35.5%	50.0%	7.1%	10.1%	NA	8.5%	1.3%	5.8%
April	37.4%	47.9%	8.5%	11.9%	NA	9.1%	1.0%	6.0%
May	41.0%	52.9%	7.6%	12.6%	NA	10.6%	1.3%	6.7%
June	60.6%	64.4%	9.9%	17.3%	NA	12.5%	1.5%	6.4%

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. NA = Not Available

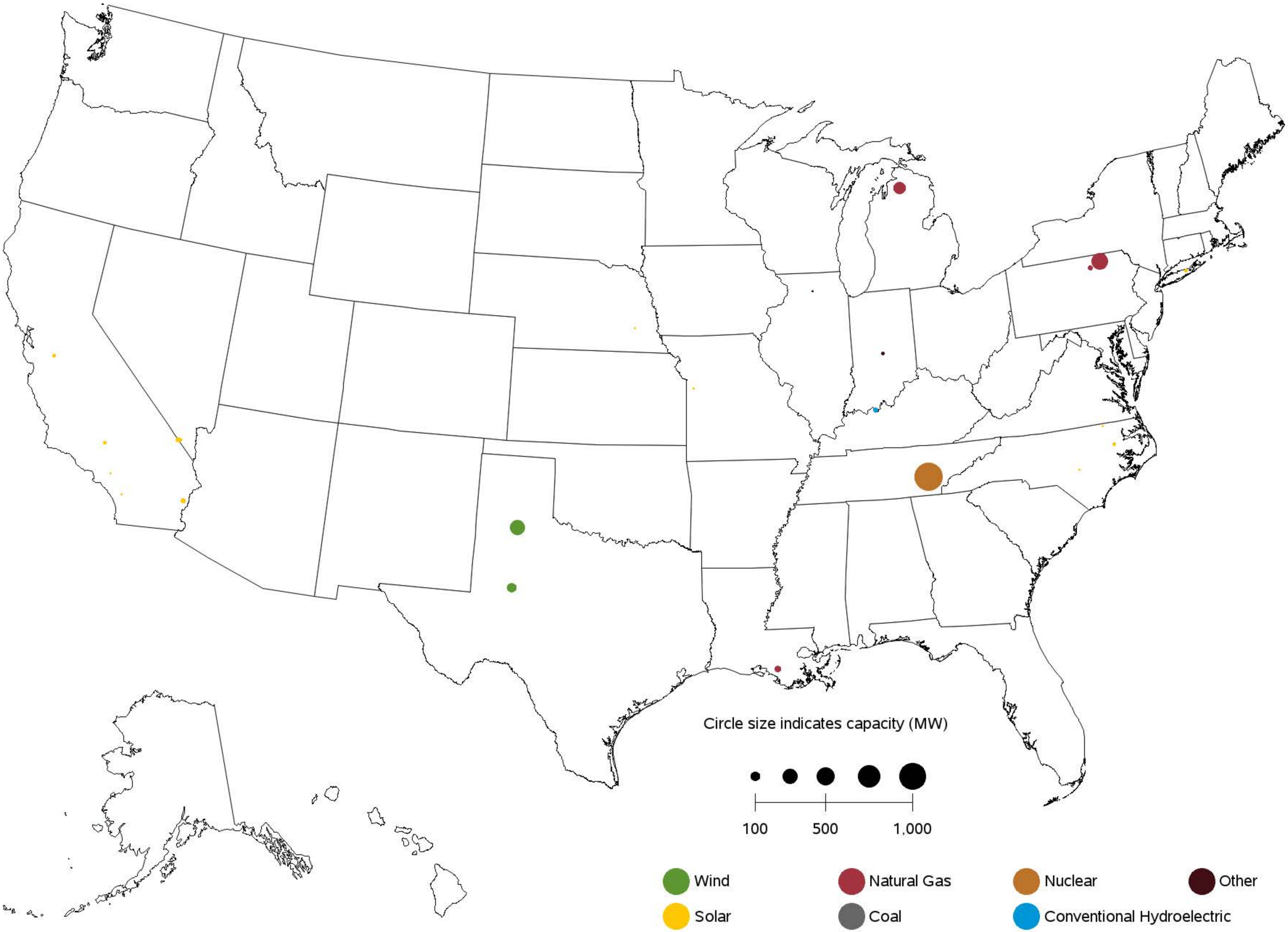
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels, January 2013-June 2016

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	92.2%	35.9%	32.5%	28.6%	22.7%	67.6%	52.9%	71.7%
Year 2014								
January	99.1%	36.7%	40.3%	NA	NA	68.1%	60.0%	74.0%
February	94.0%	32.6%	34.8%	NA	NA	68.3%	59.5%	73.3%
March	84.5%	40.7%	39.8%	NA	NA	69.6%	59.7%	73.5%
April	78.8%	44.5%	43.2%	NA	NA	69.9%	49.5%	74.6%
May	85.2%	44.6%	34.9%	NA	NA	70.6%	48.2%	73.2%
June	95.4%	44.8%	36.5%	NA	NA	70.8%	63.0%	73.4%
July	97.5%	41.3%	27.0%	NA	NA	73.1%	63.4%	72.5%
August	96.4%	33.7%	22.5%	30.9%	25.4%	71.1%	62.8%	73.0%
Sept	94.6%	28.2%	26.1%	30.7%	26.3%	68.9%	61.2%	74.2%
October	84.5%	29.2%	31.6%	26.5%	21.1%	64.4%	56.5%	73.9%
November	91.3%	32.6%	42.3%	22.3%	13.8%	66.1%	62.1%	77.3%
December	99.6%	37.8%	30.4%	15.1%	5.6%	65.4%	60.8%	75.5%
Year 2015								
January	101.3%	41.5%	31.7%	19.7%	5.1%	67.2%	55.3%	73.3%
February	95.8%	42.5%	34.5%	26.2%	15.9%	62.0%	58.4%	73.8%
March	88.0%	41.8%	31.7%	30.5%	24.2%	58.9%	50.5%	74.5%
April	84.2%	39.2%	37.8%	34.3%	32.5%	65.3%	41.7%	70.2%
May	89.7%	34.0%	35.2%	34.0%	31.1%	67.1%	48.0%	74.3%
June	96.4%	35.0%	28.3%	34.4%	34.5%	69.4%	54.3%	71.9%
July	97.2%	35.5%	27.7%	33.9%	35.1%	70.6%	59.9%	72.3%
August	98.6%	33.0%	26.0%	33.7%	32.8%	72.8%	61.3%	71.7%
Sept	93.5%	28.3%	28.3%	29.2%	27.5%	67.6%	52.0%	65.5%
October	82.5%	28.0%	31.9%	25.5%	16.7%	68.3%	46.3%	69.4%
November	84.8%	33.4%	39.0%	23.5%	17.1%	69.7%	51.0%	71.9%
December	94.8%	38.6%	37.5%	19.2%	9.6%	71.9%	56.0%	72.0%
Year 2016								
January	98.8%	42.4%	34.2%	17.9%	6.9%	69.2%	52.3%	72.8%
February	95.5%	43.1%	39.9%	26.6%	19.8%	66.0%	54.8%	72.8%
March	90.1%	45.1%	40.3%	27.8%	19.9%	63.5%	49.8%	72.2%
April	87.8%	44.3%	39.2%	30.7%	20.9%	68.5%	38.4%	68.3%
May	90.6%	42.5%	34.4%	34.8%	28.9%	75.2%	41.2%	73.6%
June	94.5%	40.2%	30.6%	33.6%	33.5%	73.6%	47.2%	71.6%

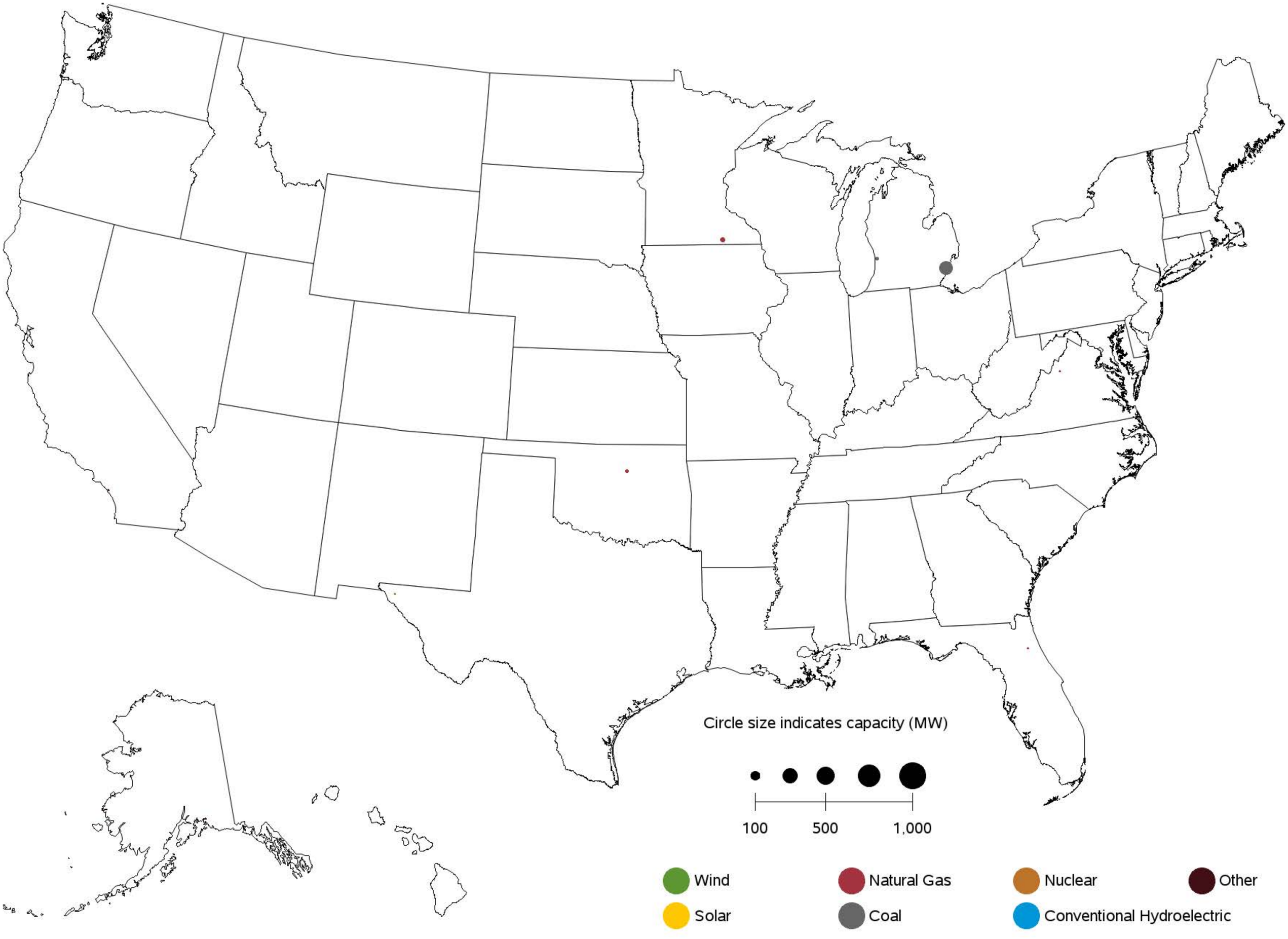
Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. NA = Not Available
Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.A. Utility-Scale Generating Units Added in June 2016



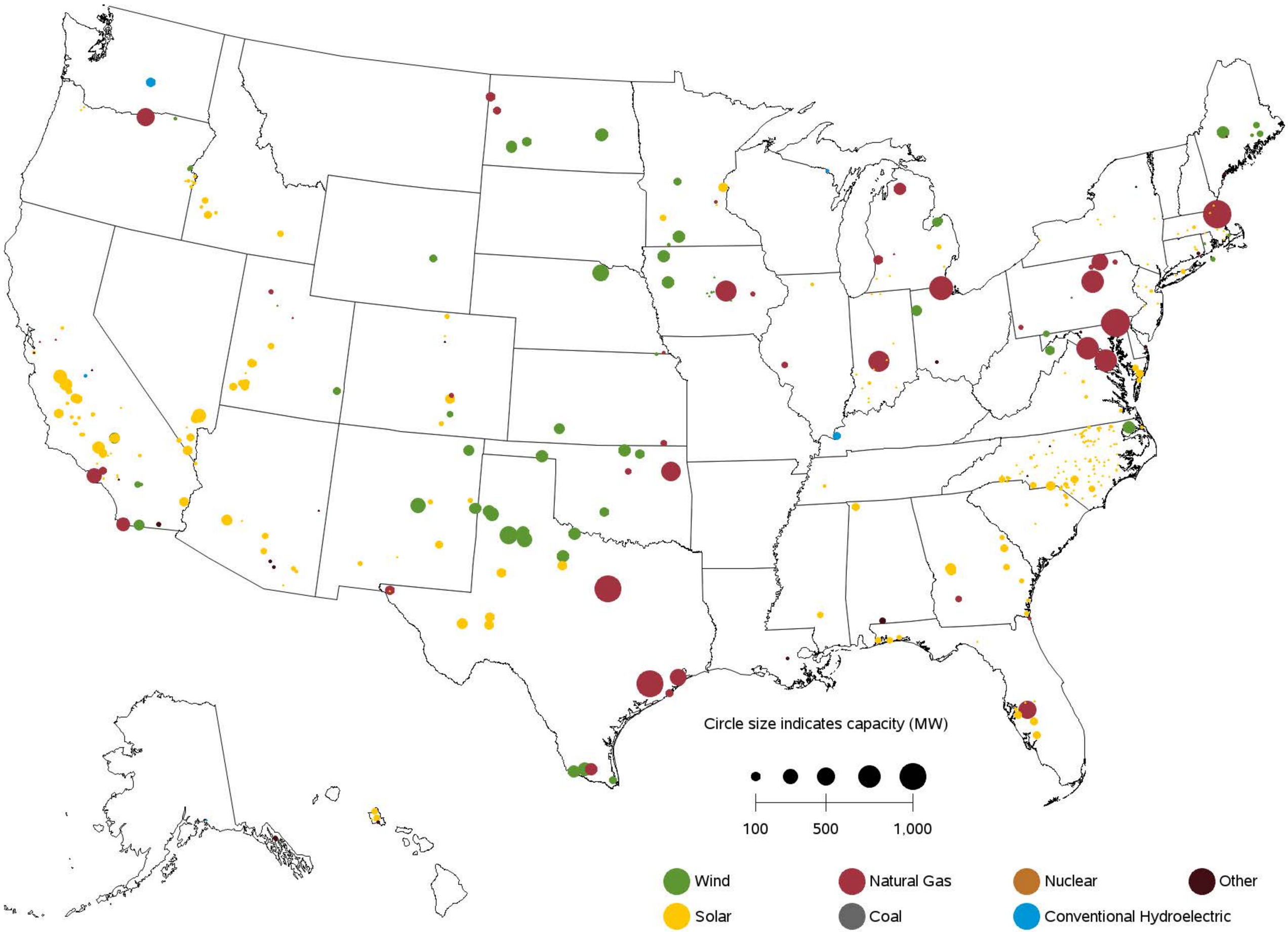
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in June 2016



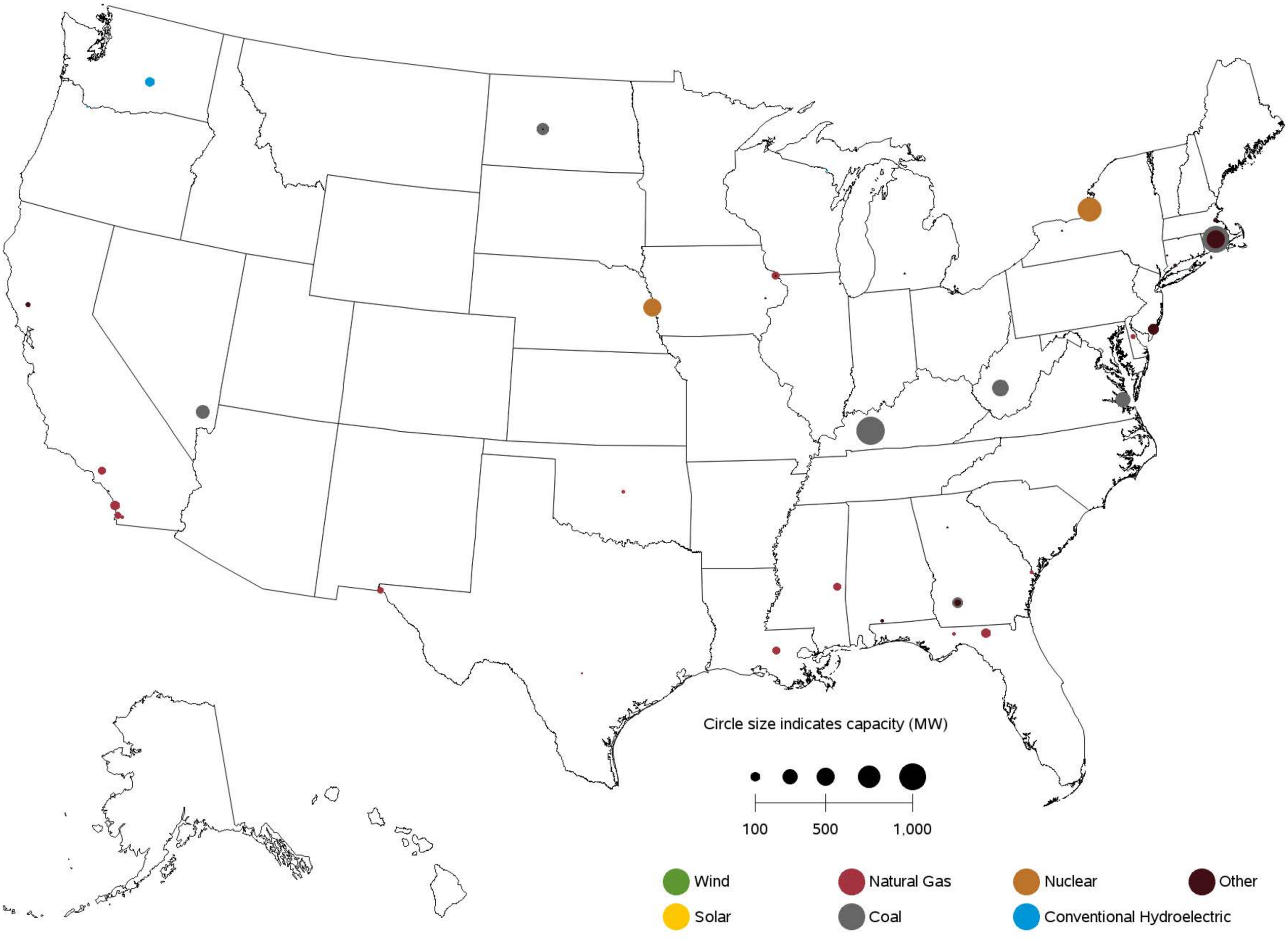
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from July 2016 to June 2017



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

Figure 6.1.D. Utility-Scale Generating Units Planned to Retire from July 2016 to June 2017



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

Table A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, June 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**2**	**26**	**0**	**1**	**0**	**0**	**20**
Connecticut	0	78	0	3	0	0	88
Maine	0	15	0	6	0	0	27
Massachusetts	2	50	0	2	0	0	56
New Hampshire	0	43	0	1	0	0	44
Rhode Island	0	87	0	2	0	0	750
Vermont	0	598	0	0	0	0	52
Middle Atlantic	**2**	**23**	**60**	**1**	**28**	**0**	**4**
New Jersey	0	94	163	2	90	0	243
New York	0	46	0	2	0	0	4
Pennsylvania	2	21	63	1	22	0	24
East North Central	**0**	**4**	**6**	**1**	**13**	**0**	**16**
Illinois	0	11	0	3	66	0	108
Indiana	0	9	0	2	19	0	25
Michigan	2	6	14	3	0	0	29
Ohio	1	2	2	1	39	0	46
Wisconsin	0	59	0	3	0	0	24
West North Central	**1**	**12**	**101**	**4**	**183**	**0**	**6**
Iowa	2	18	101	11	0	0	40
Kansas	0	8	0	14	0	0	358
Minnesota	3	55	0	4	0	0	47
Missouri	0	5	0	5	0	0	10
Nebraska	2	40	0	13	0	0	34
North Dakota	2	13	0	49	183	0	0
South Dakota	0	496	0	23	0	0	1
South Atlantic	**0**	**3**	**0**	**0**	**0**	**0**	**10**
Delaware	0	132	0	4	0	0	0
District of Columbia	0	0	0	105	0	0	0
Florida	1	3	0	0	0	0	127
Georgia	0	17	0	0	0	0	20
Maryland	0	13	0	7	0	0	3
North Carolina	1	19	0	1	0	0	17
South Carolina	0	10	0	2	0	0	29
Virginia	2	3	0	0	0	0	20
West Virginia	0	0	0	1	0	0	30
East South Central	**0**	**7**	**0**	**1**	**72**	**0**	**9**
Alabama	1	42	0	1	104	0	15
Kentucky	1	4	0	3	0	0	10
Mississippi	0	12	0	1	0	0	0
Tennessee	0	3	0	1	0	0	16
West South Central	**0**	**5**	**4**	**0**	**3**	**0**	**6**
Arkansas	0	0	0	1	0	0	12
Louisiana	0	1	4	1	6	0	0
Oklahoma	2	15	0	1	0	0	10
Texas	0	13	51	1	4	0	12
Mountain	**1**	**12**	**0**	**1**	**17**	**0**	**3**
Arizona	0	8	0	1	0	0	2
Colorado	0	217	0	2	0	0	20
Idaho	92	17,377	0	7	0	0	8
Montana	7	56	0	45	0	0	4
Nevada	0	0	0	0	0	0	4
New Mexico	0	53	0	5	0	0	105
Utah	1	18	0	4	0	0	46
Wyoming	2	11	0	35	18	0	5
Pacific Contiguous	**0**	**7**	**0**	**2**	**4**	**0**	**2**
California	0	7	0	2	6	0	6
Oregon	0	28	0	2	0	0	3
Washington	0	21	0	5	0	0	1
Pacific Noncontiguous	**7**	**3**	**0**	**17**	**73**	**0**	**26**
Alaska	18	6	0	17	0	0	27
Hawaii	7	3	0	0	73	0	88
U.S. Total	**0**	**3**	**3**	**0**	**6**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, June 2016 (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**	**14**	**4**	**0**	**5**	**1**
Connecticut	0	0	0	79	6	0	6	2
Maine	0	0	0	0	1	0	13	7
Massachusetts	0	0	0	15	9	0	6	2
New Hampshire	0	0	0	0	13	0	38	2
Rhode Island	0	0	0	82	9	0	0	2
Vermont	0	0	0	48	12	0	0	27
Middle Atlantic	**0**	**0**	**0**	**10**	**2**	**0**	**4**	**1**
New Jersey	0	0	0	12	7	0	6	1
New York	0	0	0	27	3	0	7	1
Pennsylvania	0	0	0	30	3	0	6	1
East North Central	**0**	**0**	**0**	**18**	**2**	**0**	**7**	**0**
Illinois	0	0	0	36	1	0	22	0
Indiana	0	0	0	25	3	0	3	1
Michigan	0	0	0	119	4	0	12	1
Ohio	0	0	0	36	6	0	59	1
Wisconsin	0	0	0	212	5	0	31	1
West North Central	**0**	**0**	**0**	**68**	**1**	**0**	**11**	**1**
Iowa	0	0	0	0	1	0	0	2
Kansas	0	0	0	312	0	0	163	1
Minnesota	0	0	0	139	3	0	11	2
Missouri	0	0	0	92	5	0	32	1
Nebraska	0	0	0	156	1	0	0	2
North Dakota	0	0	0	0	1	0	52	2
South Dakota	0	0	0	0	1	0	0	3
South Atlantic	**0**	**0**	**0**	**6**	**2**	**0**	**3**	**0**
Delaware	0	0	0	36	27	0	0	3
District of Columbia	0	0	0	0	0	0	0	105
Florida	0	0	0	15	5	0	3	0
Georgia	0	0	0	11	4	0	0	0
Maryland	0	0	0	24	5	0	0	1
North Carolina	0	0	0	7	5	0	18	1
South Carolina	0	0	0	119	6	0	14	1
Virginia	0	0	0	180	3	0	6	0
West Virginia	0	0	0	0	1	0	0	0
East South Central	**0**	**0**	**0**	**35**	**5**	**0**	**7**	**0**
Alabama	0	0	0	0	7	0	0	1
Kentucky	0	0	0	0	8	0	0	1
Mississippi	0	0	0	0	4	0	162	1
Tennessee	0	0	0	42	12	0	0	1
West South Central	**0**	**0**	**0**	**8**	**1**	**0**	**8**	**0**
Arkansas	0	0	0	90	6	0	0	1
Louisiana	0	0	0	0	8	0	10	1
Oklahoma	0	0	0	0	1	0	28	1
Texas	0	0	0	7	1	0	10	0
Mountain	**0**	**6**	**0**	**2**	**1**	**0**	**5**	**1**
Arizona	0	0	0	3	2	0	0	0
Colorado	0	0	0	11	1	0	55	1
Idaho	0	54	0	0	5	0	0	5
Montana	0	0	0	0	3	0	0	4
Nevada	0	6	0	3	4	0	76	1
New Mexico	0	141	0	11	4	0	406	1
Utah	0	12	0	10	4	0	4	2
Wyoming	0	0	0	0	2	0	0	2
Pacific Contiguous	**0**	**4**	**0**	**2**	**1**	**0**	**9**	**1**
California	0	4	0	2	1	0	10	1
Oregon	0	12	0	55	2	0	41	2
Washington	0	0	0	0	1	0	33	1
Pacific Noncontiguous	**0**	**0**	**0**	**44**	**6**	**0**	**8**	**4**
Alaska	0	0	0	0	28	0	820	11
Hawaii	0	0	0	44	6	0	0	3
U.S. Total	**0**	**4**	**0**	**2**	**1**	**0**	**3**	**0**

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through June 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**2**	**26**	**0**	**1**	**0**	**0**	**20**
Connecticut	0	78	0	3	0	0	88
Maine	0	15	0	6	0	0	27
Massachusetts	2	50	0	2	0	0	56
New Hampshire	0	43	0	1	0	0	44
Rhode Island	0	87	0	2	0	0	750
Vermont	0	598	0	0	0	0	52
Middle Atlantic	**2**	**23**	**60**	**1**	**28**	**0**	**4**
New Jersey	0	94	163	2	90	0	243
New York	0	46	0	2	0	0	4
Pennsylvania	2	21	63	1	22	0	24
East North Central	**0**	**4**	**6**	**1**	**13**	**0**	**16**
Illinois	0	11	0	3	66	0	108
Indiana	0	9	0	2	19	0	25
Michigan	2	6	14	3	0	0	29
Ohio	1	2	2	1	39	0	46
Wisconsin	0	59	0	3	0	0	24
West North Central	**1**	**12**	**101**	**4**	**183**	**0**	**6**
Iowa	2	18	101	11	0	0	40
Kansas	0	8	0	14	0	0	358
Minnesota	3	55	0	4	0	0	47
Missouri	0	5	0	5	0	0	10
Nebraska	2	40	0	13	0	0	34
North Dakota	2	13	0	49	183	0	0
South Dakota	0	496	0	23	0	0	1
South Atlantic	**0**	**3**	**0**	**0**	**0**	**0**	**10**
Delaware	0	132	0	4	0	0	0
District of Columbia	0	0	0	105	0	0	0
Florida	1	3	0	0	0	0	127
Georgia	0	17	0	0	0	0	20
Maryland	0	13	0	7	0	0	3
North Carolina	1	19	0	1	0	0	17
South Carolina	0	10	0	2	0	0	29
Virginia	2	3	0	0	0	0	20
West Virginia	0	0	0	1	0	0	30
East South Central	**0**	**7**	**0**	**1**	**72**	**0**	**9**
Alabama	1	42	0	1	104	0	15
Kentucky	1	4	0	3	0	0	10
Mississippi	0	12	0	1	0	0	0
Tennessee	0	3	0	1	0	0	16
West South Central	**0**	**5**	**4**	**0**	**3**	**0**	**6**
Arkansas	0	0	0	1	0	0	12
Louisiana	0	1	4	1	6	0	0
Oklahoma	2	15	0	1	0	0	10
Texas	0	13	51	1	4	0	12
Mountain	**1**	**12**	**0**	**1**	**17**	**0**	**3**
Arizona	0	8	0	1	0	0	2
Colorado	0	217	0	2	0	0	20
Idaho	92	17,377	0	7	0	0	8
Montana	7	56	0	45	0	0	4
Nevada	0	0	0	0	0	0	4
New Mexico	0	53	0	5	0	0	105
Utah	1	18	0	4	0	0	46
Wyoming	2	11	0	35	18	0	5
Pacific Contiguous	**0**	**7**	**0**	**2**	**4**	**0**	**2**
California	0	7	0	2	6	0	6
Oregon	0	28	0	2	0	0	3
Washington	0	21	0	5	0	0	1
Pacific Noncontiguous	**7**	**3**	**0**	**17**	**73**	**0**	**26**
Alaska	18	6	0	17	0	0	27
Hawaii	7	3	0	0	73	0	88
U.S. Total	**0**	**3**	**3**	**0**	**6**	**0**	**2**

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

Total (All Sectors) by Census Division and State, Year-to-Date through June 2016 (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**	**14**	**4**	**0**	**5**	**1**
Connecticut	0	0	0	79	6	0	6	2
Maine	0	0	0	0	1	0	13	7
Massachusetts	0	0	0	15	9	0	6	2
New Hampshire	0	0	0	0	13	0	38	2
Rhode Island	0	0	0	82	9	0	0	2
Vermont	0	0	0	48	12	0	0	27
Middle Atlantic	**0**	**0**	**0**	**10**	**2**	**0**	**4**	**1**
New Jersey	0	0	0	12	7	0	6	1
New York	0	0	0	27	3	0	7	1
Pennsylvania	0	0	0	30	3	0	6	1
East North Central	**0**	**0**	**0**	**18**	**2**	**0**	**7**	**0**
Illinois	0	0	0	36	1	0	22	0
Indiana	0	0	0	25	3	0	3	1
Michigan	0	0	0	119	4	0	12	1
Ohio	0	0	0	36	6	0	59	1
Wisconsin	0	0	0	212	5	0	31	1
West North Central	**0**	**0**	**0**	**68**	**1**	**0**	**11**	**1**
Iowa	0	0	0	0	1	0	0	2
Kansas	0	0	0	312	0	0	163	1
Minnesota	0	0	0	139	3	0	11	2
Missouri	0	0	0	92	5	0	32	1
Nebraska	0	0	0	156	1	0	0	2
North Dakota	0	0	0	0	1	0	52	2
South Dakota	0	0	0	0	1	0	0	3
South Atlantic	**0**	**0**	**0**	**6**	**2**	**0**	**3**	**0**
Delaware	0	0	0	36	27	0	0	3
District of Columbia	0	0	0	0	0	0	0	105
Florida	0	0	0	15	5	0	3	0
Georgia	0	0	0	11	4	0	0	0
Maryland	0	0	0	24	5	0	0	1
North Carolina	0	0	0	7	5	0	18	1
South Carolina	0	0	0	119	6	0	14	1
Virginia	0	0	0	180	3	0	6	0
West Virginia	0	0	0	0	1	0	0	0
East South Central	**0**	**0**	**0**	**35**	**5**	**0**	**7**	**0**
Alabama	0	0	0	0	7	0	0	1
Kentucky	0	0	0	0	8	0	0	1
Mississippi	0	0	0	0	4	0	162	1
Tennessee	0	0	0	42	12	0	0	1
West South Central	**0**	**0**	**0**	**8**	**1**	**0**	**8**	**0**
Arkansas	0	0	0	90	6	0	0	1
Louisiana	0	0	0	0	8	0	10	1
Oklahoma	0	0	0	0	1	0	28	1
Texas	0	0	0	7	1	0	10	0
Mountain	**0**	**6**	**0**	**2**	**1**	**0**	**5**	**1**
Arizona	0	0	0	3	2	0	0	0
Colorado	0	0	0	11	1	0	55	1
Idaho	0	54	0	0	5	0	0	5
Montana	0	0	0	0	3	0	0	4
Nevada	0	6	0	3	4	0	76	1
New Mexico	0	141	0	11	4	0	406	1
Utah	0	12	0	10	4	0	4	2
Wyoming	0	0	0	0	2	0	0	2
Pacific Contiguous	**0**	**4**	**0**	**2**	**1**	**0**	**9**	**1**
California	0	4	0	2	1	0	10	1
Oregon	0	12	0	55	2	0	41	2
Washington	0	0	0	0	1	0	33	1
Pacific Noncontiguous	**0**	**0**	**0**	**44**	**6**	**0**	**8**	**4**
Alaska	0	0	0	0	28	0	820	11
Hawaii	0	0	0	44	6	0	0	3
U.S. Total	**0**	**4**	**0**	**2**	**1**	**0**	**3**	**0**

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Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, June 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**19**	**0**	**28**	**0**	**0**	**50**
Connecticut	0	67	0	0	0	0	310
Maine	0	285	0	0	0	0	0
Massachusetts	0	27	0	42	0	0	107
New Hampshire	0	19	0	0	0	0	60
Rhode Island	0	35	0	0	0	0	0
Vermont	0	706	0	0	0	0	82
Middle Atlantic	**0**	**60**	**0**	**5**	**0**	**0**	**2**
New Jersey	0	1,158	0	162	0	0	0
New York	0	60	0	5	0	0	2
Pennsylvania	0	107	0	440	0	0	204
East North Central	**1**	**6**	**0**	**2**	**34**	**0**	**16**
Illinois	0	45	0	14	0	0	266
Indiana	0	8	0	2	180	0	25
Michigan	2	6	0	5	0	0	31
Ohio	2	5	0	4	0	0	17
Wisconsin	0	66	0	3	0	0	25
West North Central	**1**	**8**	**0**	**4**	**0**	**0**	**6**
Iowa	2	18	0	11	0	0	40
Kansas	0	8	0	14	0	0	0
Minnesota	3	36	0	4	0	0	63
Missouri	0	5	0	7	0	0	10
Nebraska	2	40	0	13	0	0	34
North Dakota	2	12	0	50	0	0	0
South Dakota	0	512	0	23	0	0	1
South Atlantic	**0**	**3**	**0**	**0**	**0**	**0**	**11**
Delaware	0	619	0	227	0	0	0
Florida	0	1	0	0	0	0	127
Georgia	0	8	0	0	0	0	20
Maryland	0	61	0	0	0	0	0
North Carolina	0	19	0	1	0	0	17
South Carolina	0	10	0	2	0	0	29
Virginia	0	1	0	0	0	0	17
West Virginia	0	0	0	0	0	0	86
East South Central	**0**	**1**	**0**	**1**	**0**	**0**	**9**
Alabama	1	0	0	4	0	0	15
Kentucky	1	4	0	3	0	0	10
Mississippi	0	12	0	1	0	0	0
Tennessee	0	1	0	0	0	0	16
West South Central	**0**	**3**	**0**	**1**	**0**	**0**	**7**
Arkansas	0	0	0	3	0	0	11
Louisiana	0	1	0	1	0	0	0
Oklahoma	0	2	0	1	0	0	10
Texas	0	14	0	1	0	0	11
Mountain	**1**	**14**	**0**	**1**	**0**	**0**	**3**
Arizona	0	8	0	1	0	0	2
Colorado	0	217	0	2	0	0	20
Idaho	0	17,377	0	6	0	0	8
Montana	130	551	0	47	0	0	4
Nevada	0	0	0	0	0	0	0
New Mexico	0	53	0	6	0	0	105
Utah	0	2	0	4	0	0	46
Wyoming	2	3	0	140	0	0	5
Pacific Contiguous	**0**	**16**	**0**	**3**	**0**	**0**	**2**
California	0	12	0	4	0	0	5
Oregon	0	0	0	1	0	0	3
Washington	0	885	0	8	0	0	1
Pacific Noncontiguous	**0**	**3**	**0**	**17**	**0**	**0**	**27**
Alaska	0	7	0	17	0	0	27
Hawaii	0	3	0	0	0	0	243
U.S. Total	**0**	**2**	**0**	**0**	**34**	**0**	**1**

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

Electric Utilities by Census Division and State, June 2016 (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**	**80**	**3**	**0**	**0**	**18**
Connecticut	0	0	0	210	210	0	0	202
Maine	0	0	0	0	0	0	0	285
Massachusetts	0	0	0	84	46	0	0	57
New Hampshire	0	0	0	0	0	0	0	18
Rhode Island	0	0	0	0	0	0	0	35
Vermont	0	0	0	0	0	0	0	28
Middle Atlantic	**0**	**0**	**0**	**37**	**37**	**0**	**0**	**2**
New Jersey	0	0	0	37	37	0	0	23
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	185
East North Central	**0**	**0**	**0**	**53**	**3**	**0**	**0**	**1**
Illinois	0	0	0	254	106	0	0	3
Indiana	0	0	0	74	20	0	0	0
Michigan	0	0	0	119	2	0	0	1
Ohio	0	0	0	79	67	0	0	2
Wisconsin	0	0	0	0	1	0	0	1
West North Central	**0**	**0**	**0**	**0**	**1**	**0**	**7**	**1**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	1
Minnesota	0	0	0	0	4	0	0	2
Missouri	0	0	0	0	52	0	32	1
Nebraska	0	0	0	0	13	0	0	2
North Dakota	0	0	0	0	1	0	52	2
South Dakota	0	0	0	0	1	0	0	4
South Atlantic	**0**	**0**	**0**	**14**	**3**	**0**	**0**	**0**
Delaware	0	0	0	99	99	0	0	197
Florida	0	0	0	13	11	0	0	0
Georgia	0	0	0	24	24	0	0	0
Maryland	0	0	0	85	85	0	0	55
North Carolina	0	0	0	27	27	0	0	0
South Carolina	0	0	0	0	8	0	0	1
Virginia	0	0	0	180	1	0	0	0
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**0**	**41**	**0**	**0**	**0**
Alabama	0	0	0	0	333	0	0	1
Kentucky	0	0	0	0	29	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0	1
Louisiana	0	0	0	0	0	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	0	3	0	0	1
Mountain	**0**	**0**	**0**	**11**	**4**	**0**	**75**	**1**
Arizona	0	0	0	11	11	0	0	0
Colorado	0	0	0	0	25	0	0	1
Idaho	0	0	0	0	119	0	0	6
Montana	0	0	0	0	0	0	0	6
Nevada	0	0	0	80	80	0	76	0
New Mexico	0	0	0	25	25	0	406	2
Utah	0	0	0	0	0	0	0	1
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	**0**	**3**	**0**	**13**	**1**	**0**	**371**	**1**
California	0	0	0	14	3	0	371	3
Oregon	0	176	0	100	2	0	0	2
Washington	0	0	0	0	1	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**64**	**30**	**0**	**900**	**6**
Alaska	0	0	0	0	42	0	820	12
Hawaii	0	0	0	64	42	0	0	3
U.S. Total	**0**	**3**	**0**	**7**	**1**	**0**	**9**	**0**

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

Electric Utilities by Census Division and State, Year-to-Date through June 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**19**	**0**	**28**	**0**	**0**	**50**
Connecticut	0	67	0	0	0	0	310
Maine	0	285	0	0	0	0	0
Massachusetts	0	27	0	42	0	0	107
New Hampshire	0	19	0	0	0	0	60
Rhode Island	0	35	0	0	0	0	0
Vermont	0	706	0	0	0	0	82
Middle Atlantic	**0**	**60**	**0**	**5**	**0**	**0**	**2**
New Jersey	0	1,158	0	162	0	0	0
New York	0	60	0	5	0	0	2
Pennsylvania	0	107	0	440	0	0	204
East North Central	**1**	**6**	**0**	**2**	**34**	**0**	**16**
Illinois	0	45	0	14	0	0	266
Indiana	0	8	0	2	180	0	25
Michigan	2	6	0	5	0	0	31
Ohio	2	5	0	4	0	0	17
Wisconsin	0	66	0	3	0	0	25
West North Central	**1**	**8**	**0**	**4**	**0**	**0**	**6**
Iowa	2	18	0	11	0	0	40
Kansas	0	8	0	14	0	0	0
Minnesota	3	36	0	4	0	0	63
Missouri	0	5	0	7	0	0	10
Nebraska	2	40	0	13	0	0	34
North Dakota	2	12	0	50	0	0	0
South Dakota	0	512	0	23	0	0	1
South Atlantic	**0**	**3**	**0**	**0**	**0**	**0**	**11**
Delaware	0	619	0	227	0	0	0
Florida	0	1	0	0	0	0	127
Georgia	0	8	0	0	0	0	20
Maryland	0	61	0	0	0	0	0
North Carolina	0	19	0	1	0	0	17
South Carolina	0	10	0	2	0	0	29
Virginia	0	1	0	0	0	0	17
West Virginia	0	0	0	0	0	0	86
East South Central	**0**	**1**	**0**	**1**	**0**	**0**	**9**
Alabama	1	0	0	4	0	0	15
Kentucky	1	4	0	3	0	0	10
Mississippi	0	12	0	1	0	0	0
Tennessee	0	1	0	0	0	0	16
West South Central	**0**	**3**	**0**	**1**	**0**	**0**	**7**
Arkansas	0	0	0	3	0	0	11
Louisiana	0	1	0	1	0	0	0
Oklahoma	0	2	0	1	0	0	10
Texas	0	14	0	1	0	0	11
Mountain	**1**	**14**	**0**	**1**	**0**	**0**	**3**
Arizona	0	8	0	1	0	0	2
Colorado	0	217	0	2	0	0	20
Idaho	0	17,377	0	6	0	0	8
Montana	130	551	0	47	0	0	4
Nevada	0	0	0	0	0	0	0
New Mexico	0	53	0	6	0	0	105
Utah	0	2	0	4	0	0	46
Wyoming	2	3	0	140	0	0	5
Pacific Contiguous	**0**	**16**	**0**	**3**	**0**	**0**	**2**
California	0	12	0	4	0	0	5
Oregon	0	0	0	1	0	0	3
Washington	0	885	0	8	0	0	1
Pacific Noncontiguous	**0**	**3**	**0**	**17**	**0**	**0**	**27**
Alaska	0	7	0	17	0	0	27
Hawaii	0	3	0	0	0	0	243
U.S. Total	**0**	**2**	**0**	**0**	**34**	**0**	**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 June 2016 (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**	**80**	**3**	**0**	**0**	**18**
Connecticut	0	0	0	210	210	0	0	202
Maine	0	0	0	0	0	0	0	285
Massachusetts	0	0	0	84	46	0	0	57
New Hampshire	0	0	0	0	0	0	0	18
Rhode Island	0	0	0	0	0	0	0	35
Vermont	0	0	0	0	0	0	0	28
Middle Atlantic	**0**	**0**	**0**	**37**	**37**	**0**	**0**	**2**
New Jersey	0	0	0	37	37	0	0	23
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	185
East North Central	**0**	**0**	**0**	**53**	**3**	**0**	**0**	**1**
Illinois	0	0	0	254	106	0	0	3
Indiana	0	0	0	74	20	0	0	0
Michigan	0	0	0	119	2	0	0	1
Ohio	0	0	0	79	67	0	0	2
Wisconsin	0	0	0	0	1	0	0	1
West North Central	**0**	**0**	**0**	**0**	**1**	**0**	**7**	**1**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	1
Minnesota	0	0	0	0	4	0	0	2
Missouri	0	0	0	0	52	0	32	1
Nebraska	0	0	0	0	13	0	0	2
North Dakota	0	0	0	0	1	0	52	2
South Dakota	0	0	0	0	1	0	0	4
South Atlantic	**0**	**0**	**0**	**14**	**3**	**0**	**0**	**0**
Delaware	0	0	0	99	99	0	0	197
Florida	0	0	0	13	11	0	0	0
Georgia	0	0	0	24	24	0	0	0
Maryland	0	0	0	85	85	0	0	55
North Carolina	0	0	0	27	27	0	0	0
South Carolina	0	0	0	0	8	0	0	1
Virginia	0	0	0	180	1	0	0	0
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**0**	**41**	**0**	**0**	**0**
Alabama	0	0	0	0	333	0	0	1
Kentucky	0	0	0	0	29	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0	1
Louisiana	0	0	0	0	0	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	0	3	0	0	1
Mountain	**0**	**0**	**0**	**11**	**4**	**0**	**75**	**1**
Arizona	0	0	0	11	11	0	0	0
Colorado	0	0	0	0	25	0	0	1
Idaho	0	0	0	0	119	0	0	6
Montana	0	0	0	0	0	0	0	6
Nevada	0	0	0	80	80	0	76	0
New Mexico	0	0	0	25	25	0	406	2
Utah	0	0	0	0	0	0	0	1
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	**0**	**3**	**0**	**13**	**1**	**0**	**371**	**1**
California	0	0	0	14	3	0	371	3
Oregon	0	176	0	100	2	0	0	2
Washington	0	0	0	0	1	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**64**	**30**	**0**	**900**	**6**
Alaska	0	0	0	0	42	0	820	12
Hawaii	0	0	0	64	42	0	0	3
U.S. Total	**0**	**3**	**0**	**7**	**1**	**0**	**9**	**0**

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

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

Independent Power Producers by Census Division and State, June 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**32**	**0**	**1**	**0**	**0**	**23**
Connecticut	0	80	0	2	0	0	91
Maine	0	7	0	1	0	0	29
Massachusetts	0	57	0	2	0	0	66
New Hampshire	0	1,046	0	0	0	0	55
Rhode Island	0	0	0	2	0	0	750
Vermont	0	0	0	0	0	0	66
Middle Atlantic	**2**	**24**	**0**	**1**	**0**	**0**	**21**
New Jersey	0	93	0	2	0	0	243
New York	0	96	0	2	0	0	29
Pennsylvania	2	22	0	1	0	0	24
East North Central	**0**	**2**	**0**	**1**	**14**	**0**	**66**
Illinois	0	0	0	2	0	0	92
Indiana	2	5,525	0	5	0	0	0
Michigan	11	0	0	2	0	0	115
Ohio	0	2	0	1	45	0	130
Wisconsin	0	0	0	1	0	0	118
West North Central	**142**	**175**	**0**	**2**	**0**	**0**	**79**
Iowa	0	131	0	1,982	0	0	462
Kansas	0	0	0	0	0	0	358
Minnesota	0	183	0	5	0	0	81
Missouri	142	0	0	2	0	0	0
South Dakota	0	488	0	0	0	0	0
South Atlantic	**2**	**12**	**0**	**1**	**0**	**0**	**16**
Delaware	0	121	0	4	0	0	0
Florida	0	360	0	3	0	0	0
Georgia	0	244	0	1	0	0	364
Maryland	0	13	0	7	0	0	3
North Carolina	56	158	0	0	0	0	226
South Carolina	0	314	0	7	0	0	188
Virginia	30	9	0	2	0	0	216
West Virginia	1	0	0	1	0	0	0
East South Central	**0**	**91**	**0**	**0**	**0**	**0**	**656**
Alabama	0	143	0	0	0	0	0
Kentucky	0	0	0	0	0	0	656
Mississippi	0	0	0	0	0	0	0
Tennessee	0	119	0	569	0	0	0
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**12**
Arkansas	0	0	0	0	0	0	296
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	1	0	0	0
Texas	0	0	0	0	0	0	308
Mountain	**7**	**11**	**0**	**1**	**0**	**0**	**21**
Arizona	0	0	0	0	0	0	0
Colorado	156	0	0	10	0	0	83
Idaho	0	0	0	150	0	0	20
Montana	6	6	0	147	0	0	94
Nevada	0	0	0	7	0	0	187
New Mexico	0	0	0	2	0	0	0
Utah	92	680	0	35	0	0	432
Wyoming	83	0	0	601	0	0	379
Pacific Contiguous	**0**	**21**	**0**	**2**	**0**	**0**	**25**
California	0	385	0	2	0	0	30
Oregon	0	0	0	3	0	0	65
Washington	0	3	0	0	0	0	57
Pacific Noncontiguous	**4**	**7**	**0**	**0**	**0**	**0**	**0**
Alaska	55	0	0	0	0	0	0
Hawaii	0	7	0	0	0	0	0
U.S. Total	**0**	**6**	**0**	**0**	**8**	**0**	**10**

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

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

Independent Power Producers by Census Division and State, June 2016 (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**	**14**	**4**	**0**	**4**	**1**
Connecticut	0	0	0	85	6	0	6	1
Maine	0	0	0	0	1	0	9	8
Massachusetts	0	0	0	16	9	0	6	2
New Hampshire	0	0	0	0	16	0	38	2
Rhode Island	0	0	0	82	8	0	0	2
Vermont	0	0	0	48	35	0	0	45
Middle Atlantic	**0**	**0**	**0**	**12**	**2**	**0**	**4**	**1**
New Jersey	0	0	0	14	8	0	9	1
New York	0	0	0	27	3	0	5	1
Pennsylvania	0	0	0	34	3	0	6	1
East North Central	**0**	**0**	**0**	**19**	**2**	**0**	**21**	**0**
Illinois	0	0	0	35	1	0	0	0
Indiana	0	0	0	26	2	0	0	2
Michigan	0	0	0	0	6	0	19	2
Ohio	0	0	0	42	7	0	90	0
Wisconsin	0	0	0	212	10	0	0	1
West North Central	**0**	**0**	**0**	**69**	**1**	**0**	**24**	**1**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	312	0	0	0	1
Minnesota	0	0	0	139	3	0	24	3
Missouri	0	0	0	96	4	0	0	2
Nebraska	0	0	0	156	1	0	0	1
North Dakota	0	0	0	0	1	0	0	1
South Dakota	0	0	0	0	2	0	0	2
South Atlantic	**0**	**0**	**0**	**6**	**4**	**0**	**4**	**1**
Delaware	0	0	0	40	30	0	0	4
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	36	6	0	4	2
Georgia	0	0	0	12	9	0	0	2
Maryland	0	0	0	26	5	0	0	1
North Carolina	0	0	0	8	7	0	18	6
South Carolina	0	0	0	119	48	0	136	9
Virginia	0	0	0	0	9	0	0	2
West Virginia	0	0	0	0	1	0	0	1
East South Central	**0**	**0**	**0**	**44**	**13**	**0**	**0**	**0**
Alabama	0	0	0	0	8	0	0	0
Kentucky	0	0	0	0	154	0	0	6
Mississippi	0	0	0	0	98	0	0	0
Tennessee	0	0	0	44	28	0	0	36
West South Central	**0**	**0**	**0**	**8**	**0**	**0**	**28**	**0**
Arkansas	0	0	0	90	38	0	0	1
Louisiana	0	0	0	0	37	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	7	0	0	84	0
Mountain	**0**	**6**	**0**	**2**	**1**	**0**	**3**	**1**
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	11	1	0	153	4
Idaho	0	54	0	0	5	0	0	8
Montana	0	0	0	0	3	0	0	5
Nevada	0	6	0	3	4	0	0	3
New Mexico	0	141	0	10	3	0	0	2
Utah	0	24	0	10	5	0	185	13
Wyoming	0	0	0	0	4	0	0	28
Pacific Contiguous	**0**	**4**	**0**	**2**	**1**	**0**	**13**	**1**
California	0	4	0	2	1	0	13	1
Oregon	0	0	0	62	2	0	41	2
Washington	0	0	0	0	1	0	33	2
Pacific Noncontiguous	**0**	**0**	**0**	**55**	**6**	**0**	**0**	**3**
Alaska	0	0	0	0	59	0	0	43
Hawaii	0	0	0	55	6	0	0	3
U.S. Total	**0**	**4**	**0**	**2**	**1**	**0**	**2**	**0**

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

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

Independent Power Producers by Census Division and State, Year-to-Date through June 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**32**	**0**	**1**	**0**	**0**	**23**
Connecticut	0	80	0	2	0	0	91
Maine	0	7	0	1	0	0	29
Massachusetts	0	57	0	2	0	0	66
New Hampshire	0	1,046	0	0	0	0	55
Rhode Island	0	0	0	2	0	0	750
Vermont	0	0	0	0	0	0	66
Middle Atlantic	**2**	**24**	**0**	**1**	**0**	**0**	**21**
New Jersey	0	93	0	2	0	0	243
New York	0	96	0	2	0	0	29
Pennsylvania	2	22	0	1	0	0	24
East North Central	**0**	**2**	**0**	**1**	**14**	**0**	**66**
Illinois	0	0	0	2	0	0	92
Indiana	2	5,525	0	5	0	0	0
Michigan	11	0	0	2	0	0	115
Ohio	0	2	0	1	45	0	130
Wisconsin	0	0	0	1	0	0	118
West North Central	**142**	**175**	**0**	**2**	**0**	**0**	**79**
Iowa	0	131	0	1,982	0	0	462
Kansas	0	0	0	0	0	0	358
Minnesota	0	183	0	5	0	0	81
Missouri	142	0	0	2	0	0	0
South Dakota	0	488	0	0	0	0	0
South Atlantic	**2**	**12**	**0**	**1**	**0**	**0**	**16**
Delaware	0	121	0	4	0	0	0
Florida	0	360	0	3	0	0	0
Georgia	0	244	0	1	0	0	364
Maryland	0	13	0	7	0	0	3
North Carolina	56	158	0	0	0	0	226
South Carolina	0	314	0	7	0	0	188
Virginia	30	9	0	2	0	0	216
West Virginia	1	0	0	1	0	0	0
East South Central	**0**	**91**	**0**	**0**	**0**	**0**	**656**
Alabama	0	143	0	0	0	0	0
Kentucky	0	0	0	0	0	0	656
Mississippi	0	0	0	0	0	0	0
Tennessee	0	119	0	569	0	0	0
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**12**
Arkansas	0	0	0	0	0	0	296
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	1	0	0	0
Texas	0	0	0	0	0	0	308
Mountain	**7**	**11**	**0**	**1**	**0**	**0**	**21**
Arizona	0	0	0	0	0	0	0
Colorado	156	0	0	10	0	0	83
Idaho	0	0	0	150	0	0	20
Montana	6	6	0	147	0	0	94
Nevada	0	0	0	7	0	0	187
New Mexico	0	0	0	2	0	0	0
Utah	92	680	0	35	0	0	432
Wyoming	83	0	0	601	0	0	379
Pacific Contiguous	**0**	**21**	**0**	**2**	**0**	**0**	**25**
California	0	385	0	2	0	0	30
Oregon	0	0	0	3	0	0	65
Washington	0	3	0	0	0	0	57
Pacific Noncontiguous	**4**	**7**	**0**	**0**	**0**	**0**	**0**
Alaska	55	0	0	0	0	0	0
Hawaii	0	7	0	0	0	0	0
U.S. Total	**0**	**6**	**0**	**0**	**8**	**0**	**10**

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 June 2016 (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**	**14**	**4**	**0**	**4**	**1**
Connecticut	0	0	0	85	6	0	6	1
Maine	0	0	0	0	1	0	9	8
Massachusetts	0	0	0	16	9	0	6	2
New Hampshire	0	0	0	0	16	0	38	2
Rhode Island	0	0	0	82	8	0	0	2
Vermont	0	0	0	48	35	0	0	45
Middle Atlantic	**0**	**0**	**0**	**12**	**2**	**0**	**4**	**1**
New Jersey	0	0	0	14	8	0	9	1
New York	0	0	0	27	3	0	5	1
Pennsylvania	0	0	0	34	3	0	6	1
East North Central	**0**	**0**	**0**	**19**	**2**	**0**	**21**	**0**
Illinois	0	0	0	35	1	0	0	0
Indiana	0	0	0	26	2	0	0	2
Michigan	0	0	0	0	6	0	19	2
Ohio	0	0	0	42	7	0	90	0
Wisconsin	0	0	0	212	10	0	0	1
West North Central	**0**	**0**	**0**	**69**	**1**	**0**	**24**	**1**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	312	0	0	0	1
Minnesota	0	0	0	139	3	0	24	3
Missouri	0	0	0	96	4	0	0	2
Nebraska	0	0	0	156	1	0	0	1
North Dakota	0	0	0	0	1	0	0	1
South Dakota	0	0	0	0	2	0	0	2
South Atlantic	**0**	**0**	**0**	**6**	**4**	**0**	**4**	**1**
Delaware	0	0	0	40	30	0	0	4
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	36	6	0	4	2
Georgia	0	0	0	12	9	0	0	2
Maryland	0	0	0	26	5	0	0	1
North Carolina	0	0	0	8	7	0	18	6
South Carolina	0	0	0	119	48	0	136	9
Virginia	0	0	0	0	9	0	0	2
West Virginia	0	0	0	0	1	0	0	1
East South Central	**0**	**0**	**0**	**44**	**13**	**0**	**0**	**0**
Alabama	0	0	0	0	8	0	0	0
Kentucky	0	0	0	0	154	0	0	6
Mississippi	0	0	0	0	98	0	0	0
Tennessee	0	0	0	44	28	0	0	36
West South Central	**0**	**0**	**0**	**8**	**0**	**0**	**28**	**0**
Arkansas	0	0	0	90	38	0	0	1
Louisiana	0	0	0	0	37	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	7	0	0	84	0
Mountain	**0**	**6**	**0**	**2**	**1**	**0**	**3**	**1**
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	11	1	0	153	4
Idaho	0	54	0	0	5	0	0	8
Montana	0	0	0	0	3	0	0	5
Nevada	0	6	0	3	4	0	0	3
New Mexico	0	141	0	10	3	0	0	2
Utah	0	24	0	10	5	0	185	13
Wyoming	0	0	0	0	4	0	0	28
Pacific Contiguous	**0**	**4**	**0**	**2**	**1**	**0**	**13**	**1**
California	0	4	0	2	1	0	13	1
Oregon	0	0	0	62	2	0	41	2
Washington	0	0	0	0	1	0	33	2
Pacific Noncontiguous	**0**	**0**	**0**	**55**	**6**	**0**	**0**	**3**
Alaska	0	0	0	0	59	0	0	43
Hawaii	0	0	0	55	6	0	0	3
U.S. Total	**0**	**4**	**0**	**2**	**1**	**0**	**2**	**0**

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

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, June 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**117**	**0**	**22**	**0**	**0**	**674**
Connecticut	0	594	0	43	0	0	0
Maine	0	585	0	172	0	0	0
Massachusetts	0	144	0	22	0	0	674
New Hampshire	0	261	0	220	0	0	0
Rhode Island	0	234	0	123	0	0	0
Vermont	0	1,118	0	0	0	0	0
Middle Atlantic	**312**	**119**	**0**	**22**	**0**	**0**	**539**
New Jersey	0	910	0	61	0	0	0
New York	0	121	0	23	0	0	539
Pennsylvania	312	623	0	67	0	0	0
East North Central	**54**	**149**	**0**	**20**	**0**	**0**	**861**
Illinois	200	213	0	28	0	0	861
Indiana	47	1,087	0	34	0	0	0
Michigan	0	211	0	33	0	0	0
Ohio	476	303	0	75	0	0	0
Wisconsin	617	199	0	97	0	0	0
West North Central	**59**	**95**	**0**	**47**	**0**	**0**	**0**
Iowa	59	189	0	105	0	0	0
Minnesota	453	100	0	93	0	0	0
Missouri	0	313	0	0	0	0	0
Nebraska	0	0	0	727	0	0	0
North Dakota	0	374	0	0	0	0	0
South Dakota	0	780	0	0	0	0	0
South Atlantic	**69**	**142**	**0**	**34**	**0**	**0**	**297**
District of Columbia	0	0	0	105	0	0	0
Florida	0	0	0	119	0	0	0
Georgia	0	73	0	0	0	0	0
Maryland	0	1,262	0	41	0	0	0
North Carolina	0	192	0	0	0	0	287
South Carolina	0	1,163	0	207	0	0	959
Virginia	313	298	0	390	0	0	0
East South Central	**0**	**617**	**0**	**71**	**0**	**0**	**0**
Mississippi	0	0	0	203	0	0	0
Tennessee	0	617	0	75	0	0	0
West South Central	**0**	**1,161**	**0**	**24**	**0**	**0**	**0**
Arkansas	0	0	0	554	0	0	0
Louisiana	0	0	0	71	0	0	0
Oklahoma	0	26,933	0	145	0	0	0
Texas	0	953	0	25	0	0	0
Mountain	**0**	**733**	**0**	**21**	**0**	**0**	**405**
Arizona	0	733	0	35	0	0	0
Colorado	0	0	0	0	0	0	405
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	51	0	0	0
New Mexico	0	0	0	40	0	0	0
Utah	0	0	0	45	0	0	0
Pacific Contiguous	**0**	**547**	**0**	**12**	**0**	**0**	**247**
California	0	597	0	10	0	0	247
Oregon	0	16,647	0	144	0	0	0
Washington	0	514	0	222	0	0	0
Pacific Noncontiguous	**39**	**55**	**0**	**294**	**0**	**0**	**0**
Alaska	39	140	0	294	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**30**	**60**	**0**	**8**	**0**	**0**	**162**

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

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, June 2016 (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**	**118**	**27**	**0**	**38**	**18**
Connecticut	0	0	0	0	0	0	0	43
Maine	0	0	0	0	34	0	38	30
Massachusetts	0	0	0	118	67	0	0	21
New Hampshire	0	0	0	0	56	0	0	73
Rhode Island	0	0	0	0	147	0	0	102
Vermont	0	0	0	0	306	0	0	305
Middle Atlantic	**0**	**0**	**0**	**25**	**12**	**0**	**14**	**12**
New Jersey	0	0	0	26	14	0	0	18
New York	0	0	0	284	24	0	25	16
Pennsylvania	0	0	0	108	54	0	0	55
East North Central	**0**	**0**	**0**	**141**	**17**	**0**	**18**	**16**
Illinois	0	0	0	0	214	0	0	28
Indiana	0	0	0	0	79	0	85	26
Michigan	0	0	0	0	16	0	17	23
Ohio	0	0	0	141	132	0	0	71
Wisconsin	0	0	0	0	77	0	0	83
West North Central	**0**	**0**	**0**	**312**	**18**	**0**	**58**	**28**
Iowa	0	0	0	0	76	0	0	55
Minnesota	0	0	0	0	47	0	58	61
Missouri	0	0	0	312	9	0	0	4
Nebraska	0	0	0	0	99	0	0	123
North Dakota	0	0	0	0	0	0	0	374
South Dakota	0	0	0	0	0	0	0	780
South Atlantic	**0**	**0**	**0**	**29**	**13**	**0**	**13**	**16**
Delaware	0	0	0	181	135	0	0	135
District of Columbia	0	0	0	0	0	0	0	105
Florida	0	0	0	193	74	0	0	92
Georgia	0	0	0	141	141	0	0	98
Maryland	0	0	0	121	85	0	0	39
North Carolina	0	0	0	31	25	0	0	19
South Carolina	0	0	0	0	0	0	0	209
Virginia	0	0	0	0	12	0	13	15
East South Central	**0**	**0**	**0**	**143**	**143**	**0**	**0**	**69**
Mississippi	0	0	0	0	0	0	0	203
Tennessee	0	0	0	143	143	0	0	73
West South Central	**0**	**0**	**0**	**166**	**60**	**0**	**0**	**23**
Arkansas	0	0	0	0	166	0	0	248
Louisiana	0	0	0	0	0	0	0	71
Oklahoma	0	0	0	0	0	0	0	145
Texas	0	0	0	166	63	0	0	24
Mountain	**0**	**0**	**0**	**33**	**33**	**0**	**0**	**19**
Arizona	0	0	0	57	57	0	0	31
Colorado	0	0	0	66	70	0	0	107
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	45	45	0	0	34
New Mexico	0	0	0	0	302	0	0	40
Utah	0	0	0	0	0	0	0	45
Pacific Contiguous	**0**	**0**	**0**	**30**	**10**	**0**	**0**	**9**
California	0	0	0	30	10	0	0	8
Oregon	0	0	0	0	74	0	0	113
Washington	0	0	0	0	92	0	0	151
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**8**	**0**	**0**	**9**
Alaska	0	0	0	0	51	0	0	35
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**14**	**6**	**0**	**7**	**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.4.B. Relative Standard Error for Net Generation by Fuel Type:

Commercial Sector by Census Division and State, Year-to-Date through June 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**117**	**0**	**22**	**0**	**0**	**674**
Connecticut	0	594	0	43	0	0	0
Maine	0	585	0	172	0	0	0
Massachusetts	0	144	0	22	0	0	674
New Hampshire	0	261	0	220	0	0	0
Rhode Island	0	234	0	123	0	0	0
Vermont	0	1,118	0	0	0	0	0
Middle Atlantic	**312**	**119**	**0**	**22**	**0**	**0**	**539**
New Jersey	0	910	0	61	0	0	0
New York	0	121	0	23	0	0	539
Pennsylvania	312	623	0	67	0	0	0
East North Central	**54**	**149**	**0**	**20**	**0**	**0**	**861**
Illinois	200	213	0	28	0	0	861
Indiana	47	1,087	0	34	0	0	0
Michigan	0	211	0	33	0	0	0
Ohio	476	303	0	75	0	0	0
Wisconsin	617	199	0	97	0	0	0
West North Central	**59**	**95**	**0**	**47**	**0**	**0**	**0**
Iowa	59	189	0	105	0	0	0
Minnesota	453	100	0	93	0	0	0
Missouri	0	313	0	0	0	0	0
Nebraska	0	0	0	727	0	0	0
North Dakota	0	374	0	0	0	0	0
South Dakota	0	780	0	0	0	0	0
South Atlantic	**69**	**142**	**0**	**34**	**0**	**0**	**297**
District of Columbia	0	0	0	105	0	0	0
Florida	0	0	0	119	0	0	0
Georgia	0	73	0	0	0	0	0
Maryland	0	1,262	0	41	0	0	0
North Carolina	0	192	0	0	0	0	287
South Carolina	0	1,163	0	207	0	0	959
Virginia	313	298	0	390	0	0	0
East South Central	**0**	**617**	**0**	**71**	**0**	**0**	**0**
Mississippi	0	0	0	203	0	0	0
Tennessee	0	617	0	75	0	0	0
West South Central	**0**	**1,161**	**0**	**24**	**0**	**0**	**0**
Arkansas	0	0	0	554	0	0	0
Louisiana	0	0	0	71	0	0	0
Oklahoma	0	26,933	0	145	0	0	0
Texas	0	953	0	25	0	0	0
Mountain	**0**	**733**	**0**	**21**	**0**	**0**	**405**
Arizona	0	733	0	35	0	0	0
Colorado	0	0	0	0	0	0	405
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	51	0	0	0
New Mexico	0	0	0	40	0	0	0
Utah	0	0	0	45	0	0	0
Pacific Contiguous	**0**	**547**	**0**	**12**	**0**	**0**	**247**
California	0	597	0	10	0	0	247
Oregon	0	16,647	0	144	0	0	0
Washington	0	514	0	222	0	0	0
Pacific Noncontiguous	**39**	**55**	**0**	**294**	**0**	**0**	**0**
Alaska	39	140	0	294	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**30**	**60**	**0**	**8**	**0**	**0**	**162**

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

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

Commercial Sector by Census Division and State, Year-to-Date through June 2016 (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**	**118**	**27**	**0**	**38**	**18**
Connecticut	0	0	0	0	0	0	0	43
Maine	0	0	0	0	34	0	38	30
Massachusetts	0	0	0	118	67	0	0	21
New Hampshire	0	0	0	0	56	0	0	73
Rhode Island	0	0	0	0	147	0	0	102
Vermont	0	0	0	0	306	0	0	305
Middle Atlantic	**0**	**0**	**0**	**25**	**12**	**0**	**14**	**12**
New Jersey	0	0	0	26	14	0	0	18
New York	0	0	0	284	24	0	25	16
Pennsylvania	0	0	0	108	54	0	0	55
East North Central	**0**	**0**	**0**	**141**	**17**	**0**	**18**	**16**
Illinois	0	0	0	0	214	0	0	28
Indiana	0	0	0	0	79	0	85	26
Michigan	0	0	0	0	16	0	17	23
Ohio	0	0	0	141	132	0	0	71
Wisconsin	0	0	0	0	77	0	0	83
West North Central	**0**	**0**	**0**	**312**	**18**	**0**	**58**	**28**
Iowa	0	0	0	0	76	0	0	55
Minnesota	0	0	0	0	47	0	58	61
Missouri	0	0	0	312	9	0	0	4
Nebraska	0	0	0	0	99	0	0	123
North Dakota	0	0	0	0	0	0	0	374
South Dakota	0	0	0	0	0	0	0	780
South Atlantic	**0**	**0**	**0**	**29**	**13**	**0**	**13**	**16**
Delaware	0	0	0	181	135	0	0	135
District of Columbia	0	0	0	0	0	0	0	105
Florida	0	0	0	193	74	0	0	92
Georgia	0	0	0	141	141	0	0	98
Maryland	0	0	0	121	85	0	0	39
North Carolina	0	0	0	31	25	0	0	19
South Carolina	0	0	0	0	0	0	0	209
Virginia	0	0	0	0	12	0	13	15
East South Central	**0**	**0**	**0**	**143**	**143**	**0**	**0**	**69**
Mississippi	0	0	0	0	0	0	0	203
Tennessee	0	0	0	143	143	0	0	73
West South Central	**0**	**0**	**0**	**166**	**60**	**0**	**0**	**23**
Arkansas	0	0	0	0	166	0	0	248
Louisiana	0	0	0	0	0	0	0	71
Oklahoma	0	0	0	0	0	0	0	145
Texas	0	0	0	166	63	0	0	24
Mountain	**0**	**0**	**0**	**33**	**33**	**0**	**0**	**19**
Arizona	0	0	0	57	57	0	0	31
Colorado	0	0	0	66	70	0	0	107
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	45	45	0	0	34
New Mexico	0	0	0	0	302	0	0	40
Utah	0	0	0	0	0	0	0	45
Pacific Contiguous	**0**	**0**	**0**	**30**	**10**	**0**	**0**	**9**
California	0	0	0	30	10	0	0	8
Oregon	0	0	0	0	74	0	0	113
Washington	0	0	0	0	92	0	0	151
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**8**	**0**	**0**	**9**
Alaska	0	0	0	0	51	0	0	35
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**14**	**6**	**0**	**7**	**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.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, June 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**82**	**214**	**0**	**23**	**0**	**0**	**64**
Connecticut	0	758	0	40	0	0	0
Maine	0	132	0	29	0	0	65
Massachusetts	148	901	0	70	0	0	642
New Hampshire	0	466	0	157	0	0	0
Middle Atlantic	**16**	**56**	**60**	**20**	**28**	**0**	**244**
New Jersey	0	1,197	163	44	90	0	0
New York	0	55	0	36	0	0	244
Pennsylvania	31	96	63	25	22	0	0
East North Central	**8**	**24**	**65**	**19**	**20**	**0**	**86**
Illinois	8	2,910	0	40	66	0	0
Indiana	185	13	0	27	18	0	0
Michigan	90	32	68	39	0	0	219
Ohio	40	57	648	74	70	0	0
Wisconsin	20	163	0	50	0	0	93
West North Central	**10**	**143**	**102**	**40**	**183**	**0**	**130**
Iowa	9	454	102	95	0	0	0
Kansas	0	0	0	62	0	0	0
Minnesota	29	139	0	60	0	0	130
Missouri	127	0	0	406	0	0	0
Nebraska	39	0	0	159	0	0	0
North Dakota	83	624	0	244	183	0	0
South Atlantic	**30**	**35**	**0**	**8**	**0**	**0**	**24**
Delaware	0	0	0	0	0	0	0
Florida	96	82	0	16	0	0	0
Georgia	58	50	0	24	0	0	459
Maryland	0	193	0	65	0	0	0
North Carolina	90	217	0	57	0	0	883
South Carolina	37	0	0	48	0	0	0
Virginia	60	117	0	22	0	0	505
West Virginia	0	0	0	0	0	0	15
East South Central	**16**	**101**	**0**	**12**	**72**	**0**	**0**
Alabama	154	107	0	16	104	0	0
Kentucky	0	0	0	50	0	0	0
Mississippi	0	0	0	38	0	0	0
Tennessee	0	307	0	9	0	0	0
West South Central	**66**	**156**	**50**	**2**	**5**	**0**	**0**
Arkansas	0	0	0	23	0	0	0
Louisiana	0	0	61	2	6	0	0
Oklahoma	72	1,401	0	78	0	0	0
Texas	0	354	51	2	8	0	0
Mountain	**9**	**101**	**0**	**14**	**18**	**0**	**0**
Colorado	517	780	0	99	0	0	0
Idaho	92	0	0	102	0	0	0
Montana	280	0	0	0	0	0	0
Nevada	0	0	0	28	0	0	0
New Mexico	0	359	0	91	0	0	0
Utah	0	2,399	0	19	0	0	0
Wyoming	37	90	0	26	18	0	0
Pacific Contiguous	**0**	**7**	**0**	**4**	**6**	**0**	**0**
California	0	4	0	3	6	0	0
Oregon	0	0	0	46	0	0	0
Washington	0	79	0	0	0	0	0
Pacific Noncontiguous	**222**	**84**	**0**	**162**	**73**	**0**	**162**
Alaska	0	18	0	162	0	0	0
Hawaii	222	127	0	0	73	0	162
U.S. Total	**7**	**24**	**29**	**2**	**7**	**0**	**28**

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

Table A.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, June 2016 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**0**	**3**	**0**	**32**	**13**
Connecticut	0	0	0	0	0	0	0	40
Maine	0	0	0	0	2	0	32	13
Massachusetts	0	0	0	0	228	0	0	64
New Hampshire	0	0	0	0	0	0	0	157
Middle Atlantic	**0**	**0**	**0**	**78**	**9**	**0**	**0**	**11**
New Jersey	0	0	0	200	200	0	0	39
New York	0	0	0	0	3	0	0	17
Pennsylvania	0	0	0	84	13	0	0	13
East North Central	**0**	**0**	**0**	**210**	**10**	**0**	**7**	**7**
Illinois	0	0	0	0	0	0	22	12
Indiana	0	0	0	0	46	0	0	12
Michigan	0	0	0	0	18	0	0	20
Ohio	0	0	0	210	11	0	0	28
Wisconsin	0	0	0	0	16	0	43	16
West North Central	**0**	**0**	**0**	**0**	**10**	**0**	**46**	**9**
Iowa	0	0	0	0	38	0	0	11
Kansas	0	0	0	0	0	0	163	61
Minnesota	0	0	0	0	9	0	47	15
Missouri	0	0	0	0	369	0	0	119
Nebraska	0	0	0	0	0	0	0	38
North Dakota	0	0	0	0	0	0	0	83
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**5**	**4**
Delaware	0	0	0	0	86	0	0	1
Florida	0	0	0	0	9	0	5	8
Georgia	0	0	0	0	4	0	0	5
Maryland	0	0	0	0	0	0	0	20
North Carolina	0	0	0	0	9	0	0	18
South Carolina	0	0	0	0	1	0	0	3
Virginia	0	0	0	0	6	0	0	12
West Virginia	0	0	0	0	0	0	0	8
East South Central	**0**	**0**	**0**	**0**	**5**	**0**	**52**	**5**
Alabama	0	0	0	0	7	0	0	8
Kentucky	0	0	0	0	1	0	0	22
Mississippi	0	0	0	0	4	0	162	8
Tennessee	0	0	0	0	14	0	0	6
West South Central	**0**	**0**	**0**	**0**	**5**	**0**	**8**	**2**
Arkansas	0	0	0	0	5	0	0	6
Louisiana	0	0	0	0	8	0	10	2
Oklahoma	0	0	0	0	29	0	72	39
Texas	0	0	0	0	13	0	10	2
Mountain	**0**	**0**	**0**	**171**	**5**	**0**	**11**	**6**
Colorado	0	0	0	0	279	0	59	73
Idaho	0	0	0	0	3	0	0	13
Montana	0	0	0	0	146	0	0	140
Nevada	0	0	0	171	171	0	0	28
New Mexico	0	0	0	0	0	0	0	90
Utah	0	0	0	0	0	0	0	5
Wyoming	0	0	0	0	0	0	0	16
Pacific Contiguous	**0**	**0**	**0**	**116**	**9**	**0**	**12**	**3**
California	0	0	0	116	21	0	12	3
Oregon	0	0	0	0	21	0	0	21
Washington	0	0	0	0	9	0	0	9
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**41**	**0**	**0**	**49**
Alaska	0	0	0	0	264	0	0	98
Hawaii	0	0	0	0	41	0	0	56
U.S. Total	**0**	**0**	**0**	**64**	**3**	**0**	**5**	**1**

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

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

Industrial Sector by Census Division and State, Year-to-Date through June 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**82**	**214**	**0**	**23**	**0**	**0**	**64**
Connecticut	0	758	0	40	0	0	0
Maine	0	132	0	29	0	0	65
Massachusetts	148	901	0	70	0	0	642
New Hampshire	0	466	0	157	0	0	0
Middle Atlantic	**16**	**56**	**60**	**20**	**28**	**0**	**244**
New Jersey	0	1,197	163	44	90	0	0
New York	0	55	0	36	0	0	244
Pennsylvania	31	96	63	25	22	0	0
East North Central	**8**	**24**	**65**	**19**	**20**	**0**	**86**
Illinois	8	2,910	0	40	66	0	0
Indiana	185	13	0	27	18	0	0
Michigan	90	32	68	39	0	0	219
Ohio	40	57	648	74	70	0	0
Wisconsin	20	163	0	50	0	0	93
West North Central	**10**	**143**	**102**	**40**	**183**	**0**	**130**
Iowa	9	454	102	95	0	0	0
Kansas	0	0	0	62	0	0	0
Minnesota	29	139	0	60	0	0	130
Missouri	127	0	0	406	0	0	0
Nebraska	39	0	0	159	0	0	0
North Dakota	83	624	0	244	183	0	0
South Atlantic	**30**	**35**	**0**	**8**	**0**	**0**	**24**
Delaware	0	0	0	0	0	0	0
Florida	96	82	0	16	0	0	0
Georgia	58	50	0	24	0	0	459
Maryland	0	193	0	65	0	0	0
North Carolina	90	217	0	57	0	0	883
South Carolina	37	0	0	48	0	0	0
Virginia	60	117	0	22	0	0	505
West Virginia	0	0	0	0	0	0	15
East South Central	**16**	**101**	**0**	**12**	**72**	**0**	**0**
Alabama	154	107	0	16	104	0	0
Kentucky	0	0	0	50	0	0	0
Mississippi	0	0	0	38	0	0	0
Tennessee	0	307	0	9	0	0	0
West South Central	**66**	**156**	**50**	**2**	**5**	**0**	**0**
Arkansas	0	0	0	23	0	0	0
Louisiana	0	0	61	2	6	0	0
Oklahoma	72	1,401	0	78	0	0	0
Texas	0	354	51	2	8	0	0
Mountain	**9**	**101**	**0**	**14**	**18**	**0**	**0**
Colorado	517	780	0	99	0	0	0
Idaho	92	0	0	102	0	0	0
Montana	280	0	0	0	0	0	0
Nevada	0	0	0	28	0	0	0
New Mexico	0	359	0	91	0	0	0
Utah	0	2,399	0	19	0	0	0
Wyoming	37	90	0	26	18	0	0
Pacific Contiguous	**0**	**7**	**0**	**4**	**6**	**0**	**0**
California	0	4	0	3	6	0	0
Oregon	0	0	0	46	0	0	0
Washington	0	79	0	0	0	0	0
Pacific Noncontiguous	**222**	**84**	**0**	**162**	**73**	**0**	**162**
Alaska	0	18	0	162	0	0	0
Hawaii	222	127	0	0	73	0	162
U.S. Total	**7**	**24**	**29**	**2**	**7**	**0**	**28**

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

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

Industrial Sector by Census Division and State, Year-to-Date through June 2016 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**0**	**3**	**0**	**32**	**13**
Connecticut	0	0	0	0	0	0	0	40
Maine	0	0	0	0	2	0	32	13
Massachusetts	0	0	0	0	228	0	0	64
New Hampshire	0	0	0	0	0	0	0	157
Middle Atlantic	**0**	**0**	**0**	**78**	**9**	**0**	**0**	**11**
New Jersey	0	0	0	200	200	0	0	39
New York	0	0	0	0	3	0	0	17
Pennsylvania	0	0	0	84	13	0	0	13
East North Central	**0**	**0**	**0**	**210**	**10**	**0**	**7**	**7**
Illinois	0	0	0	0	0	0	22	12
Indiana	0	0	0	0	46	0	0	12
Michigan	0	0	0	0	18	0	0	20
Ohio	0	0	0	210	11	0	0	28
Wisconsin	0	0	0	0	16	0	43	16
West North Central	**0**	**0**	**0**	**0**	**10**	**0**	**46**	**9**
Iowa	0	0	0	0	38	0	0	11
Kansas	0	0	0	0	0	0	163	61
Minnesota	0	0	0	0	9	0	47	15
Missouri	0	0	0	0	369	0	0	119
Nebraska	0	0	0	0	0	0	0	38
North Dakota	0	0	0	0	0	0	0	83
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**5**	**4**
Delaware	0	0	0	0	86	0	0	1
Florida	0	0	0	0	9	0	5	8
Georgia	0	0	0	0	4	0	0	5
Maryland	0	0	0	0	0	0	0	20
North Carolina	0	0	0	0	9	0	0	18
South Carolina	0	0	0	0	1	0	0	3
Virginia	0	0	0	0	6	0	0	12
West Virginia	0	0	0	0	0	0	0	8
East South Central	**0**	**0**	**0**	**0**	**5**	**0**	**52**	**5**
Alabama	0	0	0	0	7	0	0	8
Kentucky	0	0	0	0	1	0	0	22
Mississippi	0	0	0	0	4	0	162	8
Tennessee	0	0	0	0	14	0	0	6
West South Central	**0**	**0**	**0**	**0**	**5**	**0**	**8**	**2**
Arkansas	0	0	0	0	5	0	0	6
Louisiana	0	0	0	0	8	0	10	2
Oklahoma	0	0	0	0	29	0	72	39
Texas	0	0	0	0	13	0	10	2
Mountain	**0**	**0**	**0**	**171**	**5**	**0**	**11**	**6**
Colorado	0	0	0	0	279	0	59	73
Idaho	0	0	0	0	3	0	0	13
Montana	0	0	0	0	146	0	0	140
Nevada	0	0	0	171	171	0	0	28
New Mexico	0	0	0	0	0	0	0	90
Utah	0	0	0	0	0	0	0	5
Wyoming	0	0	0	0	0	0	0	16
Pacific Contiguous	**0**	**0**	**0**	**116**	**9**	**0**	**12**	**3**
California	0	0	0	116	21	0	12	3
Oregon	0	0	0	0	21	0	0	21
Washington	0	0	0	0	9	0	0	9
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**41**	**0**	**0**	**49**
Alaska	0	0	0	0	264	0	0	98
Hawaii	0	0	0	0	41	0	0	56
U.S. Total	**0**	**0**	**0**	**64**	**3**	**0**	**5**	**1**

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

Table A.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, June 2016

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through June 2016

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

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Table A.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, June 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**3**	**0**	**0**
Connecticut	0	1	8	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	5	0	1
New Hampshire	0	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	2	3	7	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	3	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**1**	**2**	**0**	**0**
Illinois	0	1	3	0	0
Indiana	1	2	2	0	1
Michigan	1	2	3	0	1
Ohio	1	1	3	0	1
Wisconsin	1	3	5	0	2
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	2	6	5	0	2
Kansas	2	2	5	0	1
Minnesota	2	4	7	0	2
Missouri	1	1	5	0	1
Nebraska	2	7	7	0	3
North Dakota	3	5	8	0	4
South Dakota	3	8	11	0	4
South Atlantic	**1**	**0**	**1**	**0**	**0**
Delaware	1	2	11	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	4	0	1
Georgia	1	1	3	0	1
Maryland	0	0	3	0	0
North Carolina	1	1	3	0	1
South Carolina	2	1	3	0	1
Virginia	1	1	3	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	2	2	2	0	1
Kentucky	1	2	5	0	1
Mississippi	3	3	5	0	2
Tennessee	1	2	5	0	1
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	2	2	3	0	2
Louisiana	2	2	2	0	1
Oklahoma	2	2	5	0	1
Texas	1	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	2	4	0	1
Colorado	2	6	7	0	3
Idaho	2	4	2	0	1
Montana	3	6	13	0	4
Nevada	1	4	1	0	1
New Mexico	4	8	10	0	4
Utah	2	5	3	0	2
Wyoming	4	7	4	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	2	4	8	0	2
Washington	2	4	8	0	2
Pacific Noncontiguous	**1**	**3**	**2**	**0**	**2**
Alaska	4	9	12	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 June 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**1**	**0**
Connecticut	0	1	5	4	1
Maine	1	2	2	0	1
Massachusetts	1	1	3	0	1
New Hampshire	0	1	2	0	0
Rhode Island	0	0	0	0	0
Vermont	2	3	5	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	2	0	0
Indiana	1	2	1	0	1
Michigan	0	1	2	0	1
Ohio	1	1	2	0	0
Wisconsin	1	2	4	0	1
West North Central	**1**	**1**	**2**	**0**	**1**
Iowa	1	4	5	0	2
Kansas	1	1	3	0	1
Minnesota	1	3	5	0	2
Missouri	1	1	4	0	1
Nebraska	1	5	7	0	3
North Dakota	1	3	6	0	2
South Dakota	2	5	9	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	2	7	0	1
District of Columbia	0	0	0	0	0
Florida	0	1	3	0	0
Georgia	1	1	2	0	1
Maryland	0	0	2	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	1	2	0	0
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**1**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	2	3	0	1
Mississippi	1	2	3	0	1
Tennessee	1	2	4	0	1
West South Central	**1**	**1**	**1**	**0**	**0**
Arkansas	1	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	4	0	1
Texas	1	1	1	0	0
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	0	2	3	0	1
Colorado	1	4	6	0	2
Idaho	1	3	3	0	1
Montana	1	4	10	0	2
Nevada	0	3	1	0	1
New Mexico	2	7	9	0	3
Utah	1	4	2	0	2
Wyoming	1	5	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**0**
California	0	1	2	0	0
Oregon	1	2	7	0	1
Washington	1	2	6	0	1
Pacific Noncontiguous	**10**	**3**	**2**	**0**	**3**
Alaska	25	7	8	0	10
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, June 2016

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

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through June 2016

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

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

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2016

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

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, 2015

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
2015	1	01/07/2015 5:00 PM	01/08/2015 8:35 AM	15 Hours, 35 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee	Public appeal to reduce the use of electricity - Severe Weather - Winter	Unknown	Unknown
2015	1	01/07/2015 5:00 PM	01/08/2015 8:35 AM	15 Hours, 35 Minutes	Tennessee Valley Authority	SERC	Tennessee, Kentucky, Virginia, North Carolina, Georgia, Alabama, Missouri	Public appeal to reduce the use of electricity - Severe Weather - Winter	Unknown	Unknown
2015	2	02/06/2015 8:58 PM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	Northern California	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Wind	Unknown	65000
2015	2	02/16/2015 9:00 PM	02/18/2015 2:00 PM	41 Hours, 0 Minutes	Tennessee Valley Authority	SERC	Tennessee, Kentucky, Virginia, North Carolina, Georgia, Alabama, Missouri	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather- Winter	Unknown	67189
2015	2	02/16/2015 9:41 PM	02/18/2015 7:00 AM	33 Hours, 19 Minutes	Southern Company	SERC	Northern/North Eastern, Georgia	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather- Winter	620	186035
2015	2	02/17/2015 2:12 AM	02/18/2015 4:00 PM	37 Hours, 48 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- Winter	Unknown	68000
2015	2	02/17/2015 9:00 AM	02/18/2015 11:00 PM	38 Hours, 0 Minutes	Duke Energy Progress	SERC	North Carolina, South Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather- Winter	Unknown	52000
2015	2	02/18/2015 3:00 PM	02/20/2015 9:00 AM	42 Hours, 0 Minutes	Tennessee Valley Authority	SERC	Tennessee, Kentucky, Virginia, North Carolina, Georgia, Alabama, Missouri	Public appeal to reduce the use of electricity - Severe Weather- Winter	Unknown	Unknown
2015	2	02/20/2015 6:00 AM	02/20/2015 10:00 AM	4 Hours, 0 Minutes	Duke Energy Progress	SERC	North Carolina, South Carolina	System-wide voltage reductions of 3 percent or more - Severe Weather- Winter	Unknown	Unknown
2015	2	02/21/2015 8:34 AM	02/21/2015 12:45 PM	4 Hours, 11 Minutes	Tennessee Valley Authority	SERC	Fentress County, Tennessee	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather- Winter	Unknown	50000
2015	2	02/26/2015 3:12 AM	02/26/2015 8:00 PM	16 Hours, 48 Minutes	Duke Energy Progress	SERC	North Carolina, South Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather- Winter	Unknown	124000
2015	2	02/26/2015 3:30 AM	02/27/2015 12:00 PM	32 Hours, 30 Minutes	Duke Energy Carolinas	SERC	North Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather- Winter	400	103776
2015	3	03/15/2015 3:30 PM	03/15/2015 7:00 PM	3 Hours, 30 Minutes	Portland General Electric Co	WECC	Greater Portland & Salem , Oregon	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Wind	210	71000
2015	3	03/26/2015 3:21 PM	03/26/2015 4:59 PM	1 Hours, 38 Minutes	Pacific Gas & Electric Co	WECC	Contra Costa County, California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	15	Unknown
2015	4	04/03/2015 2:00 AM	04/03/2015 7:48 AM	5 Hours, 48 Minutes	Westar Energy Inc	SPP	Harvey, Reno, and Sedgwick Counties, Kansas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Thunderstorms	Unknown	70000
2015	4	04/06/2015 8:12 AM	04/06/2015 12:08 PM	3 Hours, 56 Minutes	Pacific Gas & Electric Co	WECC	Butte County, California	Loss of electric service to more than 50,000 customers for 1 hour or more - System Operations	Unknown	80000
2015	4	04/07/2015 12:30 PM	04/07/2015 5:34 PM	5 Hours, 4 Minutes	Potomac Electric Power Co	RFC	Unknown	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - System Operations	Unknown	Unknown
2015	4	04/07/2015 3:34 PM	04/07/2015 3:46 PM	0 Hours, 12 Minutes	WAPA Sierra Nevada Region	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	0	0
2015	4	04/17/2015 9:16 AM	04/17/2015 11:00 AM	1 Hours, 44 Minutes	Peak Reliability	WECC	Canada	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	9300	Unknown
2015	4	04/17/2015 9:30 PM	04/19/2015 11:50 PM	50 Hours, 20 Minutes	CenterPoint Energy	TRE	Houston, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	280982
2015	4	04/18/2015 9:00 PM	04/21/2015 4:00 AM	55 Hours, 0 Minutes	Oncor Electric Delivery Company LLC	TRE	Dallas, Fort Worth, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	89000
2015	4	04/24/2015 7:10 PM	04/26/2015 4:00 PM	44 Hours, 50 Minutes	Oncor Electric Delivery Company LLC	TRE	Dallas, Fort Worth, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	57000
2015	4	04/27/2015 10:30 AM	04/28/2015 6:45 PM	32 Hours, 15 Minutes	Entergy Services, Inc.	SERC	Louisiana and Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	199000
2015	5	05/18/2015 3:28 PM	05/18/2015 3:47 PM	0 Hours, 19 Minutes	Peak Reliability for BCHA	WECC	Washington	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - Severe Weather	275	0
2015	5	05/25/2015 6:00 PM	05/29/2015 7:15 AM	85 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	North Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	454000
2015	5	05/25/2015 8:30 PM	. .	. Hours, . Minutes	Southwest Power Pool, Inc.	SPP	Texas, Louisiana, Arkansas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	57351
2015	5	05/25/2015 8:30 PM	05/26/2015 6:30 PM	22 Hours, 0 Minutes	American Electric Power - (SPP Reliability Region)	SPP	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	57531
2015	5	05/25/2015 10:45 PM	05/28/2015 1:25 AM	50 Hours, 40 Minutes	CenterPoint Energy	TRE	Fort Bend County, & Harris County ,Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	61000
2015	5	05/26/2015 5:30 AM	05/27/2015 7:00 PM	37 Hours, 30 Minutes	Entergy Services, Inc.	SERC	Texas, Louisiana, Arkansas, Mississippi	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	78515
2015	6	06/01/2015 7:19 PM	06/02/2015 8:36 AM	13 Hours, 17 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	5	484
2015	6	06/02/2015 6:58 PM	06/02/2015 7:24 PM	0 Hours, 26 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	5	727

Table B.2 Major Disturbances and Unusual Occurrences, 2015

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
2015	6	06/03/2015 3:00 PM	06/05/2015 5:00 PM	50 Hours, 0 Minutes	ERCOT	TRE	Texas	Public appeal to reduce the use of electricity - System Operations	Unknown	Unknown
2015	6	06/07/2015 1:52 PM	06/07/2015 2:13 PM	0 Hours, 21 Minutes	Tennessee Valley Authority	SERC	Tennessee	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - System Operations	Unknown	Unknown
2015	6	06/07/2015 1:54 PM	06/07/2015 2:13 PM	0 Hours, 19 Minutes	Memphis Light Gas and Water Division	SERC	Shelby County, Tennessee	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident and System-wide voltage reductions of 3 percent or more - System Operations	926	Unknown
2015	6	06/08/2015 12:00 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	Merced County, California	Fuel supply emergencies that could impact electric power system adequacy or reliability - System Operations	176	Unknown
2015	6	06/23/2015 5:06 PM	06/26/2015 4:00 PM	70 Hours, 54 Minutes	Delmarva Power & Light Company	RFC	New Castle County, Delaware	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	65000
2015	6	06/23/2015 5:30 PM	06/23/2015 7:00 PM	1 Hours, 30 Minutes	Exelon Corporation / PECO	RFC	Delaware County, PA; Chester County, PA	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	200000
2015	6	06/23/2015 6:00 PM	06/30/2015 6:00 PM	168 Hours, 0 Minutes	Atlantic City Electric Co	RFC	Gloucester County, Burlington County, Atlantic County, Cape May County, New Jersey	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	263000
2015	6	06/23/2015 6:18 PM	06/23/2015 8:30 PM	2 Hours, 12 Minutes	PJM Interconnection	RFC	New Jersey	Load shedding of 100 Megawatts or more implemented under emergency operational policy and Loss of electric service to more than 50,000 customers for 1 hour or more - System Operations	198	156338
2015	6	06/23/2015 6:26 PM	. .	. Hours, . Minutes	Public Service Electric & Gas	NPCC	New Jersey	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	90	73000
2015	6	06/23/2015 6:30 PM	06/24/2015 5:00 AM	10 Hours, 30 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	62442
2015	6	06/26/2015 2:00 AM	. .	. Hours, . Minutes	Kansas City Power & Light Co	SPP	Kansas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	110000
2015	6	06/27/2015 5:00 PM	06/30/2015 5:18 PM	72 Hours, 18 Minutes	Detroit Edison Co	RFC	Wayne County, Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	68000
2015	6	06/29/2015 7:21 PM	06/29/2015 7:42 PM	0 Hours, 21 Minutes	Peak Reliability	WECC	Washington	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - Severe Weather	0	0
2015	6	06/30/2015 10:50 AM	07/01/2015 9:00 PM	34 Hours, 10 Minutes	Pacific Gas & Electric Co	WECC	California	Public appeal to reduce the use of electricity - Severe Weather	Unknown	Unknown
2015	6	06/30/2015 2:00 PM	06/30/2015 9:00 PM	7 Hours, 0 Minutes	California ISO	WECC	California	Public appeal to reduce the use of electricity - Severe Weather	Unknown	Unknown
2015	7	07/03/2015 5:17 PM	07/03/2015 11:30 PM	6 Hours, 13 Minutes	ERCOT	TRE	Texas	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - System Operations	350	30000
2015	7	07/13/2015 2:14 PM	07/16/2015 6:00 AM	63 Hours, 46 Minutes	Duke Energy Ohio Inc	RFC	Ohio, Kentucky	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	480	68339
2015	7	07/13/2015 7:40 PM	07/15/2015 12:15 PM	40 Hours, 35 Minutes	American Electric Power - (RFC Reliability Region)	RFC	Virginia	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	52739
2015	7	07/14/2015 3:29 PM	07/15/2015 11:55 AM	20 Hours, 26 Minutes	Entergy Services, Inc.	SPP	Arkansas	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - Severe Weather	Unknown	Unknown
2015	7	07/14/2015 8:00 PM	07/15/2015 9:23 AM	13 Hours, 23 Minutes	Southern Company	SERC	Alabama	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	366	111644
2015	7	07/15/2015 2:00 AM	07/15/2015 2:55 AM	0 Hours, 55 Minutes	California Department of Water Resources	WECC	California	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - System Operations	360	0
2015	7	07/16/2015 4:45 PM	07/16/2015 5:48 PM	1 Hours, 3 Minutes	American Electric Power - (SPP Reliability Region)	SPP	Texas	Load shedding of 100 Megawatts or more implemented under emergency operational policy - System Operations	117	17311
2015	7	07/18/2015 2:00 AM	07/19/2015 7:00 AM	29 Hours, 0 Minutes	Northern States Power Co	MRO	Henepin and Ramsey County, Minnesota	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	250	250000
2015	7	07/18/2015 6:26 PM	07/18/2015 9:03 PM	2 Hours, 37 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	30	70
2015	7	07/18/2015 7:59 PM	07/18/2015 10:45 PM	2 Hours, 46 Minutes	Pacific Gas & Electric Co	WECC	California	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	160	78164
2015	7	07/21/2015 12:47 PM	07/21/2015 1:12 PM	0 Hours, 25 Minutes	Peak Reliability	WECC	Washington	Load shedding of 100 Megawatts or more implemented under emergency operational policy - System Operations	200	Unknown
2015	7	07/27/2015 3:52 AM	07/27/2015 4:36 AM	0 Hours, 44 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	Unknown	484
2015	7	07/28/2015 12:05 PM	07/28/2015 12:26 PM	0 Hours, 21 Minutes	Puerto Rico Electric Power Authority	N/A	Puerto Rico	System-wide voltage reductions of 3 percent or more - System Operations	150	Unknown

Table B.2 Major Disturbances and Unusual Occurrences, 2015

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
2015	7	07/29/2015 4:45 PM	07/29/2015 9:00 PM	4 Hours, 15 Minutes	Long Island Power Authority	NPCC	New York	Fuel supply emergencies that could impact electric power system adequacy or reliability - System Operations	500	0
2015	7	07/30/2015 9:50 AM	07/30/2015 7:00 PM	9 Hours, 10 Minutes	ERCOT	TRE	Texas	Public appeal to reduce the use of electricity - System Operations	Unknown	Unknown
2015	7	07/31/2015 10:55 AM	. .	. Hours, . Minutes	Peak Reliability	WECC	Washington	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	9	0
2015	8	08/02/2015 5:45 PM	08/04/2015 3:00 AM	33 Hours, 15 Minutes	Consumers Energy Co	RFC	Emmet County, Grand Traverse County, Leelanau County, Kalkaska County, Benzie County, Manistee County, Wexford County, Missaukee County, Mecosta County, Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	162000
2015	8	08/03/2015 12:30 AM	08/03/2015 2:00 AM	1 Hours, 30 Minutes	Exelon Corporation / ComEd	RFC	Illinois	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	115000
2015	8	08/03/2015 1:00 AM	08/05/2015 12:00 AM	47 Hours, 0 Minutes	Detroit Edison Co	RFC	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	72520
2015	8	08/04/2015 7:17 AM	08/05/2015 12:52 PM	29 Hours, 35 Minutes	ISO New England	NPCC	Massachusetts and Rhode Island	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	132000
2015	8	08/11/2015 7:30 PM	08/13/2015 4:05 AM	32 Hours, 35 Minutes	CenterPoint Energy	TRE	Houston, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	100000
2015	8	08/13/2015 3:15 PM	08/13/2015 7:00 PM	3 Hours, 45 Minutes	ERCOT	TRE	Williamson County, Texas	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system - Other	Unknown	Unknown
2015	8	08/27/2015 9:51 PM	08/28/2015 6:00 PM	20 Hours, 9 Minutes	Puerto Rico Electric Power Authority	WECC	Puerto Rico	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident / Loss of electric service to more than 50,000 customers for 1 hour or more - System Operations	360	Unknown
2015	8	08/29/2015 10:00 AM	. .	. Hours, . Minutes	Peak Reliability	WECC	Washington	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	500000
2015	8	08/29/2015 11:00 AM	09/04/2015 3:00 PM	148 Hours, 0 Minutes	Puget Sound Energy	WECC	King County, Skagit County, Whatcom County, Kitsap County, Pierce County, Thurston County, Island County, Washington	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	250	250000
2015	8	08/29/2015 1:00 PM	08/31/2015 7:00 AM	42 Hours, 0 Minutes	Seattle City Light	WECC	King County, Washington	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	1200	64000
2015	9	09/03/2015 2:33 AM	09/03/2015 6:25 AM	3 Hours, 52 Minutes	Lansing Board of Water & Light	RFC	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	50114
2015	9	09/20/2015 1:12 PM	09/20/2015 1:44 PM	0 Hours, 32 Minutes	California ISO	WECC	California	Load shedding of 100 Megawatts or more implemented under emergency operational policy - System Operations	150	Unknown
2015	10	10/13/2015 10:25 AM	10/13/2015 6:00 PM	7 Hours, 35 Minutes	ERCOT	TRE	Texas	Public appeal to reduce the use of electricity - Other	Unknown	Unknown
2015	10	10/13/2015 4:32 PM	10/13/2015 8:39 PM	4 Hours, 7 Minutes	California ISO	WECC	California	Public appeal to reduce the use of electricity - Other	41788	Unknown
2015	10	10/18/2015 7:00 AM	10/18/2015 11:29 PM	16 Hours, 29 Minutes	Pacific Gas & Electric Co	WECC	Central Coast area, California	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	88	55677
2015	10	10/23/2015 9:42 AM	10/23/2015 1:26 PM	3 Hours, 44 Minutes	Puerto Rico Electric Power Authority	N/A	Puerto Rico	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational / Load shedding of 100 Megawatts or more implemented under emergency operational policy / System-wide voltage reductions of 3 percent of more / Loss of electric service to more than 50,000 customers for 1 hour or more - System Operations	500	300000
2015	10	10/31/2015 12:45 AM	11/01/2015 4:05 PM	39 Hours, 20 Minutes	CenterPoint Energy	TRE	Harris County, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	130252

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

Appendix C

Technical notes

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

Data quality

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

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

Reliability of data

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

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

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

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

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

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

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

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

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

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

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

Data revision procedure

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

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

Data sources for Electric Power Monthly

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

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

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

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

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

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

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

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

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

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

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

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

P Indicates a preliminary value.

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

Form EIA-826

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form EIA-860

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

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

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

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

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

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

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

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

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

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

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

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

Form EIA-860M

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

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

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

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

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

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

Form EIA-861

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

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

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

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

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

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

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

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

Form EIA-923

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

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

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

Instrument and design history:

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

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

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

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

Generation, consumption, and stocks

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Issues within historical data series:

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

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

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

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

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

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

Average Capacity Factors

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

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

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

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

NERC classification

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

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

The new NERC Regional Council names are as follows:

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

Business classification

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

Agriculture, Forestry, and Fishing

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

Mining

211 Oil and gas extraction
2121 Coal mining
2122 Metal mining

2123 Mining and quarrying of nonmetallic minerals except fuels

Construction

23

Manufacturing

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

Transportation and Public Utilities

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

Wholesale Trade

421 to 422

Retail Trade

441 to 454

Finance, Insurance, and Real Estate

521 to 533

Services

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

Public Administration

92

Multiple Survey Programs- Small Scale PV Solar Estimation of Generation

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

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

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

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

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

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

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

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

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

e_i is the error term

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

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

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

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

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

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

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

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

Appendix 1- MSAs

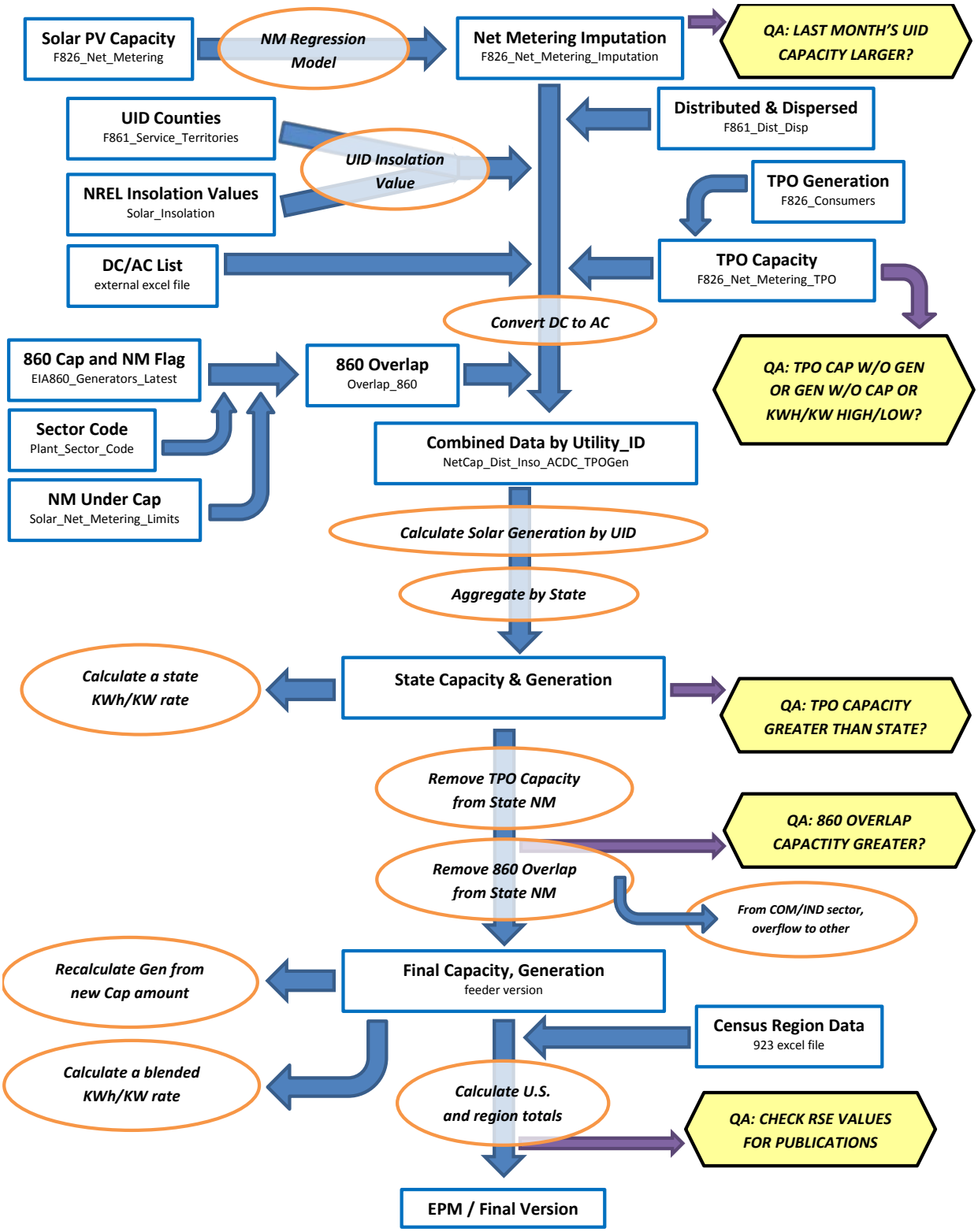
TMY3 (1991-2005) Weather Stations by MSA

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

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

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

Appendix 2 – Flow diagram of data sources and analysis



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

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

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

Table C.1 Average Heat Content of Fossil-Fuel Receipts, June 2016

Census Division and State	Coal (Million Btu per Ton)	Petroleum Liquids (Million Btu per Barrel)	Petroleum Coke (Million Btu per Ton)	Natural Gas (Million Btu per Thousand Cubic Feet)
New England	25.74	6.28	--	1.03
Connecticut	--	--	--	1.03
Maine	25.21	6.09	--	1.02
Massachusetts	--	6.30	--	1.03
New Hampshire	25.85	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	23.38	5.80	--	1.03
New Jersey	25.82	5.72	--	1.04
New York	26.02	6.00	--	1.03
Pennsylvania	23.17	5.80	--	1.04
East North Central	20.41	5.82	27.46	1.04
Illinois	17.71	5.80	--	1.02
Indiana	22.49	5.76	--	1.05
Michigan	19.02	5.92	26.90	1.04
Ohio	24.73	5.79	28.17	1.06
Wisconsin	17.46	5.88	27.24	1.03
West North Central	16.62	5.80	--	1.04
Iowa	17.78	5.78	--	1.06
Kansas	17.26	5.81	--	1.03
Minnesota	17.74	5.79	--	1.06
Missouri	17.63	5.82	--	1.02
Nebraska	16.90	5.80	--	1.06
North Dakota	13.14	5.83	--	1.00
South Dakota	16.52	--	--	1.07
South Atlantic	23.49	5.82	28.92	1.03
Delaware	25.83	5.67	--	1.04
District of Columbia	--	--	--	--
Florida	23.74	5.79	28.96	1.02
Georgia	20.53	6.02	28.36	1.03
Maryland	25.04	5.79	--	1.04
North Carolina	24.86	5.79	--	1.03
South Carolina	25.05	5.86	--	1.03
Virginia	21.01	5.77	--	1.05
West Virginia	24.71	5.81	--	1.07
East South Central	21.10	5.78	--	1.03
Alabama	19.79	5.75	--	1.03
Kentucky	22.48	5.81	--	1.03
Mississippi	11.22	5.83	--	1.03
Tennessee	22.43	5.76	--	1.01
West South Central	15.64	5.80	28.81	1.03
Arkansas	17.54	5.84	--	1.02
Louisiana	15.50	5.90	28.81	1.03
Oklahoma	17.35	5.80	--	1.05
Texas	15.16	5.76	--	1.03
Mountain	19.00	5.76	--	1.04
Arizona	19.68	5.43	--	1.03
Colorado	19.26	5.77	--	1.08
Idaho	--	--	--	1.00
Montana	17.00	5.92	--	--
Nevada	17.98	5.83	--	1.04
New Mexico	18.31	5.66	--	1.05
Utah	21.86	5.88	--	1.04
Wyoming	17.74	5.80	--	1.04
Pacific Contiguous	18.81	6.00	--	1.04
California	22.97	--	--	1.03
Oregon	17.35	--	--	1.05
Washington	16.95	6.00	--	1.09
Pacific Noncontiguous	15.00	6.17	--	1.01
Alaska	15.00	5.90	--	1.01
Hawaii	--	6.17	--	--
U.S. Total	19.27	6.03	28.70	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, 2012 through 2014

	Mean Absolute Value of Percent Change Total (All Sectors)		
Item	**2012**	**2013**	**2014**
Net Generation			
Coal	0.20%	0.31%	0.25%
Petroleum Liquids	4.25%	4.04%	2.32%
Petroleum Coke	2.45%	0.95%	2.96%
Natural Gas	0.46%	0.98%	0.42%
Other Gases	6.36%	5.81%	4.12%
Hydroelectric	0.70%	0.65%	0.49%
Nuclear	0.00%	0.00%	0.01%
Other	1.08%	0.56%	0.43%
Total	**0.20%**	**0.19%**	**0.08%**
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.16%	0.07%	0.13%
Petroleum Liquids	4.47%	3.49%	2.17%
Petroleum Coke	3.99%	1.03%	3.19%
Natural Gas	0.37%	0.99%	0.48%
Fuel Stocks for Electric Power Sector			
Coal	0.57%	0.25%	0.38%
Petroleum Liquids	0.64%	2.54%	4.25%
Petroleum Coke	8.22%	0.08%	0.61%
Retail Sales			
Residential	0.16%	0.26%	0.30%
Commercial	0.39%	0.22%	0.38%
Industrial	0.50%	3.20%	4.39%
Transportation	2.44%	1.45%	0.44%
Total	**0.27%**	**0.90%**	**1.10%**
Revenue			
Residential	0.13%	0.34%	0.43%
Commercial	0.20%	0.47%	0.47%
Industrial	0.20%	4.28%	5.66%
Transportation	1.09%	3.84%	1.92%
Total	**0.13%**	**0.76%**	**1.01%**
Average Retail Price			
Residential	0.10%	0.12%	0.12%
Commercial	0.27%	0.30%	0.20%
Industrial	0.39%	1.05%	1.20%
Transportation	1.57%	2.49%	2.18%
Total	**0.21%**	**0.17%**	**0.16%**
Receipt of Fossil Fuels			
Coal	0.99%	2.50%	2.20%
Petroleum Liquids	23.68%	0.79%	0.49%
Petroleum Coke	13.72%	2.30%	2.03%
Natural Gas	10.47%	0.47%	0.26%
Cost of Fossil Fuels			
Coal	0.90%	0.18%	0.18%
Petroleum Liquids	0.53%	0.14%	0.04%
Petroleum Coke	11.66%	1.22%	1.03%
Natural Gas	0.77%	0.02%	0.06%

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-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, 2012 through 2014

	2012			2013			2014		
Item	Preliminary Annual Data	Final Annual Data	Percent Change	Preliminary Annual Data	Final Annual Data	Percent Change	Preliminary Annual Data	Final Annual Data	Percent Change
Net Generation (Thousand MWh)									
Coal	1,517,203	1,514,043	-0.21%	1,585,998	1,581,115	-0.31%	1,585,697	1,581,710	-0.25%
Petroleum Liquids	13,209	13,403	1.47%	13,410	13,820	3.06%	18,708	18,276	-2.31%
Petroleum Coke	9,691	9,787	0.99%	13,453	13,344	-0.81%	11,781	11,955	1.48%
Natural Gas	1,230,708	1,225,894	-0.39%	1,113,665	1,124,836	1.00%	1,121,928	1,126,609	0.42%
Other Gases	11,212	11,898	6.11%	12,271	12,853	4.75%	11,578	12,022	3.83%
Hydroelectric	271,878	271,290	-0.22%	264,713	263,884	-0.31%	252,540	253,193	0.26%
Nuclear	769,331	769,331	0.00%	789,017	789,016	0.00%	797,067	797,166	0.01%
Other	231,253	232,120	0.37%	265,683	267,096	0.53%	293,636	292,674	-0.33%
Total	**4,054,485**	**4,047,765**	**-0.17%**	**4,058,209**	**4,065,964**	**0.19%**	**4,092,935**	**4,093,606**	**0.02%**
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	826,700	825,734	-0.12%	860,790	860,729	-0.01%	854,416	853,634	-0.09%
Petroleum Liquids (1,000 barrels)	22,523	22,604	0.36%	22,751	23,231	2.11%	32,084	31,531	-1.72%
Petroleum Coke (1,000 tons)	3,552	3,675	3.44%	4,893	4,852	-0.83%	4,325	4,412	2.02%
Natural Gas (1,000 Mcf)	9,465,207	9,484,710	0.21%	8,512,483	8,596,299	0.98%	8,502,964	8,544,387	0.49%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	184,923	185,116	0.10%	147,973	147,884	-0.06%	151,362	151,548	0.12%
Petroleum Liquids (1,000 barrels)	31,897	32,224	1.03%	31,045	31,673	2.03%	32,139	33,505	4.25%
Petroleum Coke (1,000 tons)	495	495	-0.01%	390	390	-0.01%	847	827	-2.29%
Retail Sales (Million kWh)									
Residential	1,374,594	1,374,515	-0.01%	1,391,102	1,394,812	0.27%	1,402,911	1,407,208	0.31%
Commercial	1,323,844	1,327,101	0.25%	1,338,464	1,337,079	-0.10%	1,357,505	1,352,158	-0.39%
Industrial	980,837	985,714	0.50%	954,731	985,352	3.21%	955,488	997,576	4.40%
Transportation	7,504	7,320	-2.45%	7,525	7,625	1.32%	7,776	7,758	-0.24%
Total	**3,686,780**	**3,694,650**	**0.21%**	**3,691,822**	**3,724,868**	**0.90%**	**3,723,681**	**3,764,700**	**1.10%**
Revenue (Million Dollars)									
Residential	163,352	163,280	-0.04%	168,547	169,131	0.35%	175,404	176,178	0.44%
Commercial	133,908	133,898	-0.01%	137,779	137,188	-0.43%	145,889	145,253	-0.44%
Industrial	65,691	65,761	0.11%	65,111	67,934	4.33%	67,019	70,855	5.72%
Transportation	754	747	-0.90%	775	805	3.84%	798	810	1.51%
Total	**363,705**	**363,687**	**0.00%**	**372,213**	**375,058**	**0.76%**	**389,111**	**393,096**	**1.02%**
Average Retail Price (Cents/kWh)									
Residential	11.88	11.88	-0.04%	12.12	12.13	0.08%	12.50	12.52	0.13%
Commercial	10.12	10.09	-0.25%	10.29	10.26	-0.33%	10.75	10.74	-0.04%
Industrial	6.70	6.67	-0.39%	6.82	6.89	1.09%	7.01	7.10	1.26%
Transportation	10.05	10.21	1.59%	10.30	10.55	2.49%	10.27	10.45	1.75%
Total	**9.87**	**9.84**	**-0.22%**	**10.08**	**10.07**	**-0.13%**	**10.45**	**10.44**	**-0.08%**
Receipt of Fossil Fuels									
Coal (1,000 tons)	849,667	841,183	-1.00%	803,206	823,222	2.49%	836,196	854,560	2.20%
Petroleum Liquids (1,000 barrels)	25,485	19,464	-23.63%	20,348	20,413	0.32%	28,355	28,514	0.56%
Petroleum Coke (1,000 tons)	4,858	4,180	-13.95%	4,555	4,660	2.31%	5,091	5,195	2.03%
Natural Gas (1,000 Mcf)	10,631,822	9,531,389	-10.35%	8,463,303	8,503,424	0.47%	8,423,883	8,431,423	0.09%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.40	2.38	-0.89%	2.35	2.34	-0.12%	2.37	2.37	0.02%
Petroleum Liquids (1,000 barrels)	21.82	21.85	0.12%	20.59	20.56	-0.12%	19.89	19.89	-0.03%
Petroleum Coke (1,000 tons)	2.54	2.24	-11.90%	2.16	2.17	0.70%	1.96	1.98	0.97%
Natural Gas (1,000 Mcf)	3.40	3.42	0.64%	4.33	4.33	0.03%	4.99	4.99	0.01%

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 2014 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.