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Preface

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

Background

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

Data sources

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

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					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	136,860	139,598	-2.0%	101,618	105,860	34,291	32,611	30	44	921	1,083	0	0
Petroleum Liquids	Utility Scale Facilities	1,272	1,205	5.5%	917	863	297	293	NM	13	48	36	0	0
Petroleum Coke	Utility Scale Facilities	1,062	1,142	-7.0%	833	898	136	140	1	0	92	104	0	0
Natural Gas	Utility Scale Facilities	152,459	141,365	7.8%	72,960	64,894	70,692	68,036	770	720	8,037	7,716	0	0
Other Gas	Utility Scale Facilities	1,044	1,274	-18.1%	24	17	314	309	0	0	706	948	0	0
Nuclear	Utility Scale Facilities	70,349	71,412	-1.5%	37,918	37,055	32,430	34,357	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	21,365	21,114	1.2%	19,938	18,979	1,330	2,017	NM	NM	92	113	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	28,511	23,721	20.2%	3,076	2,698	22,728	18,157	291	305	2,415	2,561	0	0
... Wind	Utility Scale Facilities	17,589	13,686	28.5%	2,318	1,954	15,256	11,719	11	NM	NM	NM	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	4,064	2,754	47.6%	240	172	3,749	2,522	71	58	NM	NM	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,583	3,913	-8.4%	308	323	969	1,142	8	7	2,298	2,441	0	0
... Other Biomass	Utility Scale Facilities	1,850	1,932	-4.3%	120	156	1,420	1,432	201	231	109	113	0	0
... Geothermal	Utility Scale Facilities	1,425	1,436	-0.8%	91	93	1,334	1,343	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-784	-513	52.7%	-678	-413	-106	-101	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,167	1,217	-4.1%	23	56	612	604	96	110	437	447	0	0
All Energy Sources	Utility Scale Facilities	413,304	401,536	2.9%	236,631	230,908	162,723	156,424	1,202	1,196	12,748	13,008	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	1,717	1,276	34.6%	0	0	0	0	597	528	159	123	962	625
Estimated Total Solar Photovoltaic	All Facilities	5,310	3,648	45.6%	234	154	3,283	2,156	668	586	NM	NM	962	625
Estimated Total Solar	All Facilities	5,782	4,031	43.4%	240	172	3,749	2,522	668	586	NM	NM	962	625
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	74,428	76,833	-3.1%	54,535	57,032	19,549	19,390	10	15	333	396	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,231	2,041	9.3%	1,707	1,540	457	423	NM	24	57	54	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	408	421	-3.0%	325	333	56	59	0	0	27	28	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,183,821	1,088,254	8.8%	580,676	511,438	539,657	514,942	6,645	6,765	56,843	55,110	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,187	1,494	-20.6%	85	83	161	190	38	53	903	1,168	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	255	219	16.2%	0	1	90	98	NM	12	152	109	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	79	104	-23.6%	0	1	8	9	1	0	70	94	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	81,742	77,182	5.9%	954	755	26,432	26,611	5,233	4,322	49,123	45,493	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	75,615	78,327	-3.5%	54,620	57,115	19,710	19,580	48	68	1,237	1,565	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,486	2,260	10.0%	1,707	1,540	546	521	NM	36	209	163	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	488	525	-7.1%	325	334	65	68	1	0	97	123	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,265,563	1,165,436	8.6%	581,630	512,193	566,088	541,554	11,878	11,087	105,966	100,603	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	173,471	160,257	8.2%	137,434	125,879	34,252	32,716	124	176	1,661	1,486	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	32,533	30,746	5.8%	20,648	20,442	10,339	8,623	240	258	1,306	1,423	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	964	1,235	-21.9%	W	909	W	156	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for July									
	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	July 2016	July 2015	Percentage Change	July 2016	July 2015	Percentage Change	July 2016	July 2015	Percentage Change
Residential	153,952	145,418	5.9%	19,521	18,886	3.4%	12.68	12.99	-2.4%
Commercial	129,233	128,448	0.6%	13,727	14,155	-3.0%	10.62	11.02	-3.6%
Industrial	83,301	85,400	-2.5%	6,022	6,355	-5.3%	7.23	7.44	-2.8%
Transportation	651	650	0.1%	63	68	-7.3%	9.69	10.46	-7.4%
All Sectors	367,137	359,916	2.0%	39,332	39,464	-0.3%	10.71	10.96	-2.3%

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

Table ES1.B. Total Electric Power Industry Summary Statistics, Year-to-Date 2016 and 2015

Net Generation and Consumption of Fuels for January through July														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	686,301	827,355	-17.0%	519,201	619,347	160,947	200,927	248	316	5,904	6,765	0	0
Petroleum Liquids	Utility Scale Facilities	7,396	12,401	-40.4%	5,194	6,975	1,878	4,907	60	161	263	358	0	0
Petroleum Coke	Utility Scale Facilities	6,946	6,571	5.7%	5,536	4,951	766	967	4	4	640	649	0	0
Natural Gas	Utility Scale Facilities	807,949	750,108	7.7%	386,282	345,911	364,560	350,778	4,606	4,334	52,501	49,084	0	0
Other Gas	Utility Scale Facilities	7,868	7,759	1.4%	80	147	2,319	2,107	0	0	5,469	5,505	0	0
Nuclear	Utility Scale Facilities	470,774	467,827	0.6%	252,183	244,530	218,591	223,297	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	172,428	156,256	10.4%	158,637	143,035	12,929	12,349	NM	NM	824	848	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	200,429	170,696	17.4%	24,641	21,160	157,702	130,863	1,893	1,971	16,192	16,702	0	0
... Wind	Utility Scale Facilities	133,810	107,818	24.1%	19,983	16,944	113,697	90,772	82	71	48	32	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	20,971	15,732	33.3%	1,325	998	19,256	14,389	371	327	19	18	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	23,295	24,722	-5.8%	1,756	1,736	6,148	7,066	40	37	15,351	15,883	0	0
... Other Biomass	Utility Scale Facilities	12,600	12,526	0.6%	955	859	9,470	9,362	1,400	1,536	775	769	0	0
... Geothermal	Utility Scale Facilities	9,753	9,898	-1.5%	621	623	9,132	9,274	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-3,143	-2,914	7.8%	-2,565	-2,323	-578	-592	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	7,705	7,516	2.5%	299	242	3,991	3,892	635	691	2,781	2,691	0	0
All Energy Sources	Utility Scale Facilities	2,364,654	2,403,574	-1.6%	1,349,488	1,383,976	923,106	929,495	7,485	7,501	84,575	82,602	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	9,563	7,116	34.4%	0	0	0	0	3,499	3,018	891	702	5,174	3,397
Estimated Total Solar Photovoltaic	All Facilities	28,403	20,848	36.2%	1,271	926	17,179	12,461	3,869	3,346	910	719	5,174	3,397
Estimated Total Solar	All Facilities	30,534	22,848	33.6%	1,325	998	19,256	14,389	3,869	3,346	910	719	5,174	3,397
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	374,764	448,431	-16.4%	279,879	331,873	92,709	114,025	81	106	2,095	2,428	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	12,671	21,013	-39.7%	9,445	12,496	2,811	7,678	72	325	342	514	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	2,614	2,466	6.0%	2,110	1,878	324	406	1	1	178	181	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	6,094,532	5,639,911	8.1%	2,978,914	2,660,406	2,705,487	2,585,709	41,366	41,793	368,766	352,003	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	8,920	10,328	-13.6%	569	577	1,015	1,160	346	427	6,989	8,165	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,521	1,977	-23.1%	15	58	591	753	91	138	824	1,028	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	588	864	-31.9%	1	5	58	64	7	8	521	786	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	548,478	531,809	3.1%	5,944	4,624	175,622	177,628	33,870	30,834	333,042	318,723	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	383,684	458,759	-16.4%	280,448	332,450	93,725	115,184	427	532	9,084	10,593	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	14,191	22,990	-38.3%	9,460	12,554	3,402	8,431	163	463	1,166	1,542	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	3,202	3,330	-3.9%	2,112	1,884	382	470	8	9	700	967	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	6,643,011	6,171,719	7.6%	2,984,859	2,665,029	2,881,109	2,763,337	75,235	72,626	701,808	670,726	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through July									
	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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	Percentage Change
Residential	807,172	828,308	-2.6%	100,678	104,323	-3.5%	12.47	12.59	-1.0%
Commercial	778,266	784,901	-0.8%	79,958	83,061	-3.7%	10.27	10.58	-2.9%
Industrial	544,312	557,114	-2.3%	36,183	38,418	-5.8%	6.65	6.90	-3.6%
Transportation	4,388	4,549	-3.5%	415	468	-11.3%	9.46	10.29	-8.1%
All Sectors	2,134,139	2,174,872	-1.9%	217,234	226,271	-4.0%	10.18	10.40	-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	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
Coal (1000 tons)	59,400	67,423	40.53	42.32	277	311	343,961	445,141	41.36	43.65
Petroleum Liquids (1000 barrels)	1,460	1,446	72.81	76.19	150	166	9,568	14,503	54.23	77.48
Petroleum Coke (1000 tons)	355	451	41.45	54.69	8	12	2,383	2,751	38.65	55.66
Natural Gas (1000 Mcf)	1,147,156	1,057,757	3.07	3.22	780	784	5,966,310	5,548,364	2.74	3.61

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
Coal (1000 tons)	43,919	50,671	42.00	43.10	196	219	259,772	334,593	42.40	44.16
Petroleum Liquids (1000 barrels)	1,144	1,028	71.91	76.13	102	108	7,163	9,052	53.81	75.73
Petroleum Coke (1000 tons)	340	395	40.50	52.91	6	9	2,068	2,313	34.70	53.51
Natural Gas (1000 Mcf)	549,780	485,114	3.31	3.59	416	414	2,856,263	2,547,041	3.01	3.88

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
Coal (1000 tons)	14,883	15,969	35.38	38.81	63	69	79,965	105,562	36.89	41.05
Petroleum Liquids (1000 barrels)	306	360	76.52	75.83	40	49	2,226	4,956	55.41	80.41
Petroleum Coke (1000 tons)	8	40	W	W	1	1	226	291	68.87	67.80
Natural Gas (1000 Mcf)	533,518	509,889	2.76	2.80	317	322	2,692,129	2,589,785	2.43	3.37

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
Coal (1000 tons)	0	5	--	W	0	3	19	77	W	W
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	667	528	W	W	3	3	4,697	3,292	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	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
Coal (1000 tons)	597	778	61.02	W	18	20	4,206	4,910	W	W
Petroleum Liquids (1000 barrels)	10	57	62.12	79.16	8	9	180	495	56.95	82.78
Petroleum Coke (1000 tons)	8	16	W	W	1	2	88	147	W	W
Natural Gas (1000 Mcf)	63,191	62,227	W	W	44	45	413,221	408,245	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	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
Coal	1,138,678	1,289,251	2.11	2.21	277	311	6,670,942	8,620,999	2.13	2.25
Petroleum Liquids	8,993	8,752	11.82	12.57	150	166	57,877	87,864	8.96	12.77
Petroleum Coke	10,031	12,797	1.47	1.93	8	12	67,011	78,010	1.37	1.96
Natural Gas	1,184,999	1,094,467	2.97	3.11	780	784	6,164,485	5,736,149	2.65	3.49
Fossil Fuels	2,342,702	2,405,267	2.56	2.63	959	975	12,960,315	14,523,022	2.39	2.77

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
Coal	848,156	976,543	2.17	2.24	196	219	5,071,478	6,513,232	2.17	2.27
Petroleum Liquids	7,128	6,277	11.54	12.47	102	108	43,750	55,192	8.81	12.42
Petroleum Coke	9,587	11,256	1.43	1.86	6	9	58,365	65,786	1.23	1.88
Natural Gas	567,857	502,578	3.20	3.46	416	414	2,951,871	2,631,219	2.92	3.75
Fossil Fuels	1,432,728	1,496,655	2.62	2.68	541	546	8,125,463	9,265,430	2.47	2.74

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
Coal	277,383	295,075	1.90	2.10	63	69	1,505,480	1,994,571	1.96	2.17
Petroleum Liquids	1,805	2,125	12.98	12.81	40	49	13,029	29,652	9.45	13.41
Petroleum Coke	223	1,119	W	W	1	1	6,232	8,151	2.50	2.42
Natural Gas	551,262	526,867	2.67	2.71	317	322	2,781,747	2,679,225	2.35	3.26
Fossil Fuels	830,672	825,187	W	W	367	377	4,306,488	4,711,598	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	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
Coal	0	124	--	W	0	3	434	1,703	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	691	540	W	W	3	3	4,815	3,344	W	W
Fossil Fuels	691	664	W	W	3	3	5,249	5,048	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	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
Coal	13,139	17,508	2.77	W	18	20	93,551	111,493	W	W
Petroleum Liquids	60	350	10.18	12.95	8	9	1,098	3,020	9.32	13.57
Petroleum Coke	222	422	W	W	1	2	2,414	4,073	W	W
Natural Gas	65,190	64,482	W	W	44	45	426,052	422,361	W	W
Fossil Fuels	78,611	82,762	W	W	48	49	523,114	540,947	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-July 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
July	136,860	1,272	1,062	152,459	1,044	70,349	21,365	4,064	24,447	-784	1,167	413,304	1,717	5,310	5,782
Year to Date															
2014	952,105	13,515	7,367	624,605	6,452	457,609	165,372	9,851	158,300	-3,333	7,562	2,399,405	5,538	13,943	15,389
2015	827,355	12,401	6,571	750,108	7,759	467,827	156,256	15,732	154,964	-2,914	7,516	2,403,574	7,116	20,848	22,848
2016	686,301	7,396	6,946	807,949	7,868	470,774	172,428	20,971	179,458	-3,143	7,705	2,364,654	9,563	28,403	30,534
Rolling 12 Months Ending in July															
2015	1,456,961	17,163	11,159	1,252,112	13,329	807,384	250,250	23,572	258,185	-5,755	13,415	4,097,775	11,114	31,690	34,686
2016	1,215,003	12,451	11,363	1,392,910	13,073	800,124	267,341	31,712	296,380	-5,322	13,429	4,048,462	14,587	42,928	46,299

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-July 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
July	17,589	3,593	471	3,583	953	638	259	1,425	21,365	49,876	1,717	5,310	5,782
Year to Date													
2014	111,879	8,405	1,445	24,450	6,736	4,152	1,927	9,158	165,372	333,523	5,538	13,943	15,389
2015	107,818	13,732	2,000	24,722	6,480	4,218	1,827	9,898	156,256	326,951	7,116	20,848	22,848
2016	133,810	18,840	2,130	23,295	6,441	4,276	1,883	9,753	172,428	372,857	9,563	28,403	30,534
Rolling 12 Months Ending in July													
2015	177,595	20,576	2,996	42,612	10,964	7,295	3,103	16,617	250,250	532,007	11,114	31,690	34,686
2016	216,918	28,341	3,371	40,931	11,194	7,473	3,240	16,623	267,341	595,433	14,587	42,928	46,299

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-July 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
July	101,618	917	833	72,960	24	37,918	19,938	240	2,836	-678	23	236,631
Year to Date												
2014	702,682	7,313	5,698	280,650	73	242,397	151,394	675	20,060	-2,743	354	1,408,554
2015	619,347	6,975	4,951	345,911	147	244,530	143,035	998	20,162	-2,323	242	1,383,976
2016	519,201	5,194	5,536	386,282	80	252,183	158,637	1,325	23,316	-2,565	299	1,349,488
Rolling 12 Months Ending in July												
2015	1,089,738	10,358	8,400	566,675	186	422,004	229,827	1,540	33,380	-4,723	510	2,357,895
2016	916,843	8,809	8,868	654,845	NM	424,332	245,732	1,985	38,795	-4,348	553	2,296,553

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-July 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
July	34,291	297	136	70,692	314	32,430	1,330	3,749	18,979	-106	612	162,723
Year to Date												
2014	241,701	5,651	864	290,392	1,672	215,212	13,169	8,953	119,777	-590	3,809	900,611
2015	200,927	4,907	967	350,778	2,107	223,297	12,349	14,389	116,474	-592	3,892	929,495
2016	160,947	1,878	766	364,560	2,319	218,591	12,929	19,256	138,447	-578	3,991	923,106
Rolling 12 Months Ending in July												
2015	354,928	6,045	1,513	592,145	3,681	385,380	19,040	21,522	193,420	-1,032	6,772	1,583,413
2016	286,969	3,074	1,407	640,246	3,663	375,792	20,256	29,098	226,750	-975	6,870	1,593,150

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-July 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
July	30	NM	1	770	0	0	NM	71	220	0	96	1,202	597	668	668
Year to Date															
2014	398	203	4	4,085	0	0	26	213	1,685	0	665	7,278	2,594	2,807	2,807
2015	316	161	4	4,334	0	0	NM	327	1,644	0	691	7,501	3,018	3,346	3,346
2016	248	60	4	4,606	0	0	NM	371	1,523	0	635	7,485	3,499	3,869	3,869
Rolling 12 Months Ending in July															
2015	514	NM	9	7,476	0	0	NM	485	2,821	0	1,197	12,743	4,774	5,259	5,259
2016	NM	NM	8	7,962	0	0	NM	597	2,714	0	1,155	13,013	5,505	6,102	6,102

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-July 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
July	921	48	92	8,037	706	0	92	NM	2,412	0	437	12,748	159	NM	NM
Year to Date															
2014	7,324	347	801	49,478	4,706	0	783	10	16,778	0	2,734	82,961	548	558	558
2015	6,765	358	649	49,084	5,505	0	848	18	16,684	0	2,691	82,602	702	719	719
2016	5,904	263	640	52,501	5,469	0	824	19	16,174	0	2,781	84,575	891	910	910
Rolling 12 Months Ending in July															
2015	11,782	555	1,237	85,816	9,463	0	1,347	NM	28,565	0	4,936	143,724	1,096	NM	NM
2016	10,772	NM	NM	89,857	9,272	0	1,299	NM	28,121	0	4,851	145,747	1,379	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-July 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
July	962
Year to Date	
2014	2,395
2015	3,397
2016	5,174
Rolling 12 Months Ending in July	
2015	5,244
2016	7,704

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, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	11,050	11,208	-1.4%	282	257	10,383	10,551	122	125	263	275
Connecticut	3,353	3,380	-0.8%	NM	NM	3,265	3,291	39	39	46	45
Maine	1,152	904	27.4%	NM	NM	938	674	18	21	195	209
Massachusetts	3,773	3,960	-4.7%	85	90	3,616	3,800	53	53	NM	17
New Hampshire	1,810	1,848	-2.0%	126	82	1,676	1,756	NM	6	NM	NM
Rhode Island	812	931	-12.8%	1	NM	804	924	NM	NM	0	0
Vermont	151	185	-18.4%	67	79	84	106	NM	NM	0	0
Middle Atlantic	42,272	40,721	3.8%	3,533	3,617	38,110	36,483	207	217	422	404
New Jersey	6,901	7,219	-4.4%	0	1	6,779	7,095	68	63	54	61
New York	13,638	13,462	1.3%	3,524	3,606	9,905	9,662	115	116	94	77
Pennsylvania	21,733	20,040	8.4%	NM	NM	21,426	19,726	23	38	275	266
East North Central	57,164	56,143	1.8%	25,523	25,969	30,663	29,038	201	210	777	927
Illinois	18,162	18,021	0.8%	1,106	958	16,794	16,761	50	51	212	251
Indiana	9,663	9,918	-2.6%	8,597	8,740	800	835	27	26	239	317
Michigan	10,654	10,252	3.9%	7,774	7,538	2,655	2,481	92	104	133	129
Ohio	11,920	11,382	4.7%	2,557	3,433	9,281	7,857	NM	NM	67	81
Wisconsin	6,765	6,569	3.0%	5,489	5,300	1,132	1,103	NM	17	126	149
West North Central	32,084	31,578	1.6%	28,207	28,252	3,443	2,885	64	60	370	380
Iowa	5,303	5,027	5.5%	4,288	4,028	804	793	NM	20	188	187
Kansas	4,926	4,723	4.3%	3,879	4,022	1,020	685	0	0	NM	NM
Minnesota	5,433	5,555	-2.2%	4,572	4,802	725	607	NM	20	114	125
Missouri	8,301	8,508	-2.4%	7,969	8,195	308	291	18	19	NM	NM
Nebraska	3,560	3,780	-5.8%	3,329	3,590	202	156	NM	NM	27	33
North Dakota	3,530	3,239	9.0%	3,276	2,989	244	236	NM	NM	NM	14
South Dakota	1,032	746	38.3%	893	627	139	119	NM	NM	0	0
South Atlantic	85,475	79,594	7.4%	70,539	65,629	13,160	12,171	138	126	1,638	1,668
Delaware	1,170	862	35.7%	NM	NM	1,025	741	NM	NM	133	112
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	24,894	22,981	8.3%	22,364	21,139	2,056	1,368	NM	NM	464	467
Georgia	14,217	13,461	5.6%	12,296	10,933	1,510	2,099	NM	3	410	425
Maryland	4,249	3,952	7.5%	NM	NM	4,169	3,878	52	46	25	25
North Carolina	13,934	13,404	4.0%	12,541	12,325	1,227	910	27	19	140	150
South Carolina	9,601	9,480	1.3%	9,083	9,076	353	242	NM	NM	163	160
Virginia	9,807	8,439	16.2%	7,998	6,752	1,561	1,430	40	42	207	216
West Virginia	7,597	7,009	8.4%	6,244	5,392	1,258	1,503	0	0	95	114
East South Central	36,670	37,828	-3.1%	30,934	31,917	4,937	5,067	NM	14	783	829
Alabama	14,041	15,149	-7.3%	9,512	10,720	4,160	4,019	0	0	370	410
Kentucky	8,196	8,294	-1.2%	8,048	8,100	96	139	0	0	52	55
Mississippi	6,317	6,617	-4.5%	5,490	5,561	660	889	NM	NM	164	166
Tennessee	8,117	7,768	4.5%	7,885	7,536	22	21	NM	13	197	199
West South Central	73,925	71,946	2.7%	27,394	27,097	39,626	38,100	108	97	6,797	6,653
Arkansas	6,596	6,182	6.7%	4,805	4,495	1,667	1,535	NM	NM	124	152
Louisiana	10,895	10,815	0.7%	7,008	6,787	1,218	1,142	NM	NM	2,653	2,871
Oklahoma	8,228	8,175	0.6%	4,954	5,397	3,190	2,688	NM	NM	79	87
Texas	48,206	46,774	3.1%	10,627	10,418	33,551	32,736	87	78	3,941	3,543
Mountain	37,476	36,490	2.7%	29,411	28,891	7,764	7,223	48	48	252	328
Arizona	12,259	12,483	-1.8%	9,437	9,716	2,808	2,754	14	13	0	0
Colorado	5,387	4,818	11.8%	4,401	4,055	976	753	NM	NM	NM	NM
Idaho	1,451	1,462	-0.7%	1,049	1,005	372	414	0	0	30	42
Montana	2,528	2,487	1.7%	892	818	1,635	1,667	0	0	NM	NM
Nevada	4,178	3,843	8.7%	3,299	3,095	846	711	14	15	18	21
New Mexico	3,442	3,148	9.3%	2,723	2,599	707	537	9	9	NM	NM
Utah	3,678	3,824	-3.8%	3,326	3,483	213	211	7	7	133	123
Wyoming	4,553	4,424	2.9%	4,284	4,120	208	175	0	0	61	129
Pacific Contiguous	35,887	34,668	3.5%	19,962	18,366	14,274	14,550	248	250	1,401	1,502
California	21,424	20,617	3.9%	8,748	7,500	11,213	11,571	236	237	1,227	1,309
Oregon	4,731	4,746	-0.3%	3,176	3,033	1,498	1,646	NM	NM	48	57
Washington	9,731	9,305	4.6%	8,038	7,833	1,563	1,333	NM	NM	126	136
Pacific Noncontiguous	1,302	1,359	-4.2%	845	914	363	354	49	48	44	43
Alaska	451	484	-6.8%	414	439	15	20	13	13	NM	12
Hawaii	850	875	-2.8%	432	475	348	334	37	35	34	32
U.S. Total	413,304	401,536	2.9%	236,631	230,908	162,723	156,424	1,202	1,196	12,748	13,008

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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 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	63,974	65,826	-2.8%	1,570	2,340	59,903	60,708	751	842	1,751	1,937
Connecticut	20,723	22,115	-6.3%	NM	NM	20,204	21,569	226	251	264	268
Maine	7,345	7,078	3.8%	NM	NM	5,869	5,395	117	132	1,359	1,551
Massachusetts	19,750	18,396	7.4%	332	405	18,972	17,523	335	369	111	100
New Hampshire	10,975	12,975	-15.4%	631	1,360	10,296	11,554	32	44	NM	NM
Rhode Island	3,895	4,032	-3.4%	6	8	3,850	3,980	39	44	0	0
Vermont	1,285	1,229	4.5%	572	541	712	686	NM	NM	0	0
Middle Atlantic	245,864	251,665	-2.3%	21,075	19,831	220,754	227,850	1,354	1,387	2,681	2,597
New Jersey	44,446	42,772	3.9%	15	4	43,674	42,032	403	398	355	338
New York	78,416	80,578	-2.7%	20,997	19,770	56,096	59,527	734	744	588	538
Pennsylvania	123,002	128,315	-4.1%	NM	NM	120,985	126,291	218	245	1,737	1,721
East North Central	339,240	358,376	-5.3%	148,552	162,526	183,851	188,727	1,214	1,247	5,623	5,875
Illinois	107,793	114,417	-5.8%	5,767	5,864	100,262	106,672	268	326	1,495	1,555
Indiana	58,945	62,652	-5.9%	49,554	53,555	7,498	7,121	157	133	1,736	1,842
Michigan	67,410	67,580	-0.3%	46,353	49,936	19,569	16,173	571	613	918	858
Ohio	67,075	74,371	-9.8%	17,160	22,383	49,327	51,408	88	64	501	516
Wisconsin	38,016	39,357	-3.4%	29,718	30,789	7,195	7,354	131	111	973	1,104
West North Central	189,569	194,150	-2.4%	158,090	166,469	28,662	24,835	436	380	2,381	2,466
Iowa	31,462	34,498	-8.8%	22,874	25,930	7,251	7,188	156	136	1,182	1,244
Kansas	28,298	26,707	6.0%	20,398	21,043	7,775	5,611	0	0	125	54
Minnesota	34,776	33,454	3.9%	27,592	26,881	6,267	5,609	157	134	761	830
Missouri	46,518	49,738	-6.5%	44,567	48,217	1,812	1,399	112	100	26	22
Nebraska	21,589	22,531	-4.2%	19,457	20,633	1,928	1,668	11	9	193	220
North Dakota	20,798	21,866	-4.9%	18,280	19,434	2,423	2,336	NM	NM	95	97
South Dakota	6,129	5,355	14.4%	4,923	4,332	1,206	1,024	NM	NM	0	0
South Atlantic	475,749	473,832	0.4%	396,227	396,431	68,252	65,969	834	792	10,436	10,640
Delaware	5,077	4,790	6.0%	NM	NM	4,293	4,043	NM	NM	737	708
District of Columbia	37	40	-5.4%	0	0	0	0	37	40	0	0
Florida	138,809	137,947	0.6%	125,395	127,333	10,324	7,530	54	36	3,036	3,048
Georgia	77,937	77,441	0.6%	66,325	64,676	8,931	9,987	7	20	2,674	2,759
Maryland	21,366	22,887	-6.6%	13	15	20,897	22,413	297	280	159	179
North Carolina	76,585	78,250	-2.1%	69,313	72,506	6,229	4,704	167	146	876	894
South Carolina	57,501	57,774	-0.5%	54,625	55,577	1,799	1,173	NM	NM	1,066	1,019
Virginia	54,234	50,068	8.3%	45,278	40,267	7,346	8,216	255	262	1,355	1,324
West Virginia	44,202	44,636	-1.0%	35,235	36,023	8,433	7,903	0	0	533	709
East South Central	213,491	226,252	-5.6%	179,465	191,371	28,702	29,545	91	87	5,232	5,250
Alabama	83,290	89,180	-6.6%	58,128	63,321	22,651	23,314	0	0	2,511	2,544
Kentucky	46,528	51,482	-9.6%	45,861	50,742	321	366	0	0	346	375
Mississippi	38,443	39,007	-1.4%	31,741	32,211	5,588	5,723	NM	NM	1,101	1,062
Tennessee	45,229	46,583	-2.9%	43,736	45,097	141	142	78	75	1,274	1,269
West South Central	402,209	401,733	0.1%	139,470	142,389	217,015	216,453	636	557	45,087	42,333
Arkansas	34,289	34,922	-1.8%	25,196	24,179	8,139	9,655	NM	NM	950	1,084
Louisiana	63,552	62,059	2.4%	38,412	38,011	6,605	6,802	107	108	18,428	17,138
Oklahoma	43,806	44,302	-1.1%	24,934	29,148	18,372	14,668	NM	NM	481	481
Texas	260,562	260,449	0.0%	50,928	51,051	183,900	185,328	505	440	25,229	23,631
Mountain	207,629	212,315	-2.2%	163,298	170,465	42,163	39,748	278	280	1,890	1,823
Arizona	62,377	63,019	-1.0%	52,086	53,107	10,210	9,830	81	83	0	0
Colorado	31,766	30,027	5.8%	24,502	24,019	7,207	5,946	20	25	37	37
Idaho	9,872	9,208	7.2%	6,631	6,211	2,932	2,710	0	0	309	287
Montana	15,746	17,516	-10.1%	6,748	7,185	8,987	10,320	0	0	11	11
Nevada	22,840	21,522	6.1%	17,485	16,740	5,128	4,571	80	74	146	137
New Mexico	18,551	18,527	0.1%	13,762	14,696	4,705	3,752	55	56	NM	23
Utah	20,546	24,222	-15.2%	18,655	22,641	1,279	1,055	41	42	572	484
Wyoming	25,930	28,275	-8.3%	23,428	25,868	1,715	1,563	0	0	786	843
Pacific Contiguous	218,236	210,244	3.8%	135,937	125,827	71,533	73,429	1,570	1,615	9,196	9,372
California	113,786	110,718	2.8%	46,677	41,132	57,590	59,888	1,484	1,533	8,035	8,165
Oregon	35,862	34,114	5.1%	27,063	25,287	8,409	8,388	NM	61	330	378
Washington	68,588	65,412	4.9%	62,197	59,409	5,533	5,153	NM	21	831	829
Pacific Noncontiguous	8,694	9,181	-5.3%	5,805	6,326	2,271	2,232	321	315	297	308
Alaska	3,239	3,610	-10.3%	2,954	3,301	120	141	96	94	69	74
Hawaii	5,455	5,571	-2.1%	2,851	3,025	2,151	2,091	225	221	228	235
U.S. Total	2,364,654	2,403,574	-1.6%	1,349,488	1,383,976	923,106	929,495	7,485	7,501	84,575	82,602

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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, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	222	173	28.2%	59	19	160	151	0	0	NM	3
Connecticut	10	13	-27.0%	0	0	10	13	0	0	0	0
Maine	6	3	74.5%	0	0	5	3	0	0	1	1
Massachusetts	148	138	7.3%	0	0	146	135	0	0	NM	NM
New Hampshire	59	19	214.5%	59	19	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	6,692	5,965	12.2%	0	0	6,621	5,900	NM	NM	70	65
New Jersey	137	120	14.3%	0	0	137	120	0	0	0	0
New York	324	213	51.6%	0	0	287	187	0	0	37	26
Pennsylvania	6,231	5,632	10.6%	0	0	6,197	5,593	NM	NM	34	39
East North Central	28,629	30,992	-7.6%	17,135	19,731	11,308	11,012	NM	15	180	234
Illinois	6,524	7,481	-12.8%	833	811	5,570	6,519	NM	4	119	146
Indiana	7,236	7,862	-8.0%	6,935	7,361	295	494	5	5	NM	NM
Michigan	4,073	5,149	-20.9%	4,028	5,098	38	37	0	6	NM	7
Ohio	7,122	6,689	6.5%	1,704	2,713	5,405	3,961	NM	NM	12	15
Wisconsin	3,675	3,811	-3.6%	3,634	3,747	0	0	NM	NM	41	64
West North Central	19,706	20,285	-2.9%	19,446	19,994	NM	NM	NM	15	248	273
Iowa	3,335	3,276	1.8%	3,163	3,102	0	0	NM	10	161	164
Kansas	2,587	2,775	-6.8%	2,587	2,775	0	0	0	0	0	0
Minnesota	2,237	2,591	-13.7%	2,186	2,525	0	0	NM	NM	51	66
Missouri	6,373	6,520	-2.3%	6,367	6,509	NM	NM	0	5	NM	3
Nebraska	2,189	2,553	-14.3%	2,164	2,520	0	0	0	0	25	33
North Dakota	2,758	2,569	7.4%	2,752	2,561	0	0	0	0	NM	7
South Dakota	227	0	--	227	0	0	0	0	0	0	0
South Atlantic	28,637	26,834	6.7%	25,076	23,378	3,416	3,252	NM	NM	140	200
Delaware	120	48	150.1%	0	0	120	48	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,770	4,342	9.9%	4,582	4,128	166	189	0	0	NM	NM
Georgia	4,863	4,482	8.5%	4,838	4,462	0	0	0	0	24	NM
Maryland	1,788	1,599	11.9%	0	0	1,782	1,589	0	NM	6	9
North Carolina	5,356	5,387	-0.6%	5,227	5,257	107	102	4	2	NM	NM
South Carolina	2,615	2,561	2.1%	2,601	2,546	0	0	0	0	14	15
Virginia	1,809	1,834	-1.3%	1,655	1,663	114	122	NM	NM	38	46
West Virginia	7,317	6,582	11.2%	6,173	5,322	1,127	1,202	0	0	17	58
East South Central	14,954	16,371	-8.7%	14,557	15,952	309	315	0	0	88	104
Alabama	3,844	4,887	-21.3%	3,831	4,875	0	0	0	0	NM	NM
Kentucky	6,732	7,067	-4.7%	6,732	7,067	0	0	0	0	0	0
Mississippi	722	843	-14.3%	413	527	309	315	0	0	0	0
Tennessee	3,656	3,575	2.3%	3,581	3,483	0	0	0	0	75	92
West South Central	20,236	20,316	-0.4%	10,115	10,752	10,078	9,516	0	0	NM	NM
Arkansas	2,648	2,643	0.2%	2,174	2,177	471	462	0	0	4	4
Louisiana	1,667	1,559	7.0%	1,011	979	656	579	0	0	0	0
Oklahoma	2,015	2,725	-26.1%	1,767	2,506	208	175	0	0	NM	NM
Texas	13,906	13,390	3.9%	5,162	5,090	8,744	8,300	0	0	0	0
Mountain	16,707	17,463	-4.3%	14,956	15,685	1,638	1,659	0	0	113	119
Arizona	3,259	3,740	-12.8%	3,259	3,740	0	0	0	0	0	0
Colorado	2,980	3,018	-1.3%	2,972	3,008	NM	NM	0	0	NM	NM
Idaho	NM	6	NM	0	0	0	0	0	0	NM	6
Montana	1,461	1,489	-1.8%	NM	NM	1,434	1,460	0	0	NM	NM
Nevada	444	400	11.0%	341	309	103	90	0	0	0	0
New Mexico	1,957	1,990	-1.6%	1,957	1,990	0	0	0	0	0	0
Utah	2,527	2,837	-10.9%	2,419	2,729	NM	NM	0	0	80	73
Wyoming	4,073	3,985	2.2%	3,981	3,881	NM	NM	0	0	27	38
Pacific Contiguous	901	1,020	-11.7%	255	323	615	666	0	0	31	32
California	26	36	-27.7%	0	0	0	NM	0	0	26	28
Oregon	255	323	-21.0%	255	323	0	0	0	0	0	0
Washington	620	662	-6.3%	0	0	615	658	0	0	5	4
Pacific Noncontiguous	176	178	-1.2%	21	28	142	137	8	8	NM	NM
Alaska	41	53	-23.4%	21	28	NM	17	8	8	0	0
Hawaii	135	125	8.2%	0	0	130	120	0	0	NM	NM
U.S. Total	136,860	139,598	-2.0%	101,618	105,860	34,291	32,611	30	44	921	1,083

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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 July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	1,525	3,190	-52.2%	211	859	1,296	2,293	0	0	18	39
Connecticut	59	600	-90.2%	0	0	59	600	0	0	0	0
Maine	40	65	-39.3%	0	0	34	42	0	0	5	23
Massachusetts	1,216	1,667	-27.0%	0	0	1,203	1,651	0	0	13	15
New Hampshire	211	859	-75.5%	211	859	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	33,158	45,102	-26.5%	0	0	32,708	44,636	NM	NM	447	461
New Jersey	749	1,256	-40.3%	0	0	749	1,256	0	0	0	0
New York	1,069	1,784	-40.1%	0	0	863	1,604	0	0	206	180
Pennsylvania	31,340	42,062	-25.5%	0	0	31,096	41,776	NM	NM	241	280
East North Central	155,295	191,598	-18.9%	98,169	120,429	55,722	69,464	62	97	1,342	1,609
Illinois	33,675	45,426	-25.9%	4,713	5,517	28,081	38,937	20	26	862	946
Indiana	41,647	47,747	-12.8%	39,309	44,620	2,305	3,093	25	25	NM	10
Michigan	23,590	31,178	-24.3%	23,272	30,825	251	240	15	44	51	69
Ohio	38,016	45,387	-16.2%	12,816	18,069	25,086	27,194	NM	NM	113	124
Wisconsin	18,366	21,859	-16.0%	18,058	21,398	0	0	NM	NM	307	460
West North Central	103,618	120,200	-13.8%	101,911	118,256	13	17	82	106	1,611	1,822
Iowa	14,218	19,291	-26.3%	13,147	18,125	0	0	64	65	1,007	1,101
Kansas	12,554	15,469	-18.8%	12,554	15,469	0	0	0	0	0	0
Minnesota	13,052	15,440	-15.5%	12,689	15,004	0	0	NM	NM	362	436
Missouri	35,830	39,004	-8.1%	35,779	38,929	13	17	18	40	20	18
Nebraska	11,848	14,073	-15.8%	11,668	13,855	0	0	0	0	180	218
North Dakota	14,831	16,400	-9.6%	14,790	16,350	0	0	0	0	41	49
South Dakota	1,284	523	145.6%	1,284	523	0	0	0	0	0	0
South Atlantic	136,162	154,914	-12.1%	119,237	135,290	16,004	18,433	41	48	880	1,142
Delaware	340	478	-28.9%	0	0	340	478	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	21,116	25,531	-17.3%	20,540	24,724	441	665	0	0	NM	142
Georgia	21,528	24,629	-12.6%	21,383	24,480	0	0	0	0	144	149
Maryland	7,659	9,886	-22.5%	0	0	7,616	9,811	0	NM	43	75
North Carolina	20,718	27,176	-23.8%	20,164	26,550	395	464	32	38	NM	NM
South Carolina	12,940	14,692	-11.9%	12,855	14,592	0	0	0	0	85	101
Virginia	10,107	10,327	-2.1%	9,531	9,333	333	750	NM	NM	234	236
West Virginia	41,752	42,194	-1.0%	34,763	35,611	6,878	6,265	0	0	111	317
East South Central	77,506	94,513	-18.0%	75,233	91,970	1,629	1,862	0	0	644	681
Alabama	18,515	24,814	-25.4%	18,425	24,725	0	0	0	0	90	89
Kentucky	38,363	45,502	-15.7%	38,363	45,502	0	0	0	0	0	0
Mississippi	2,977	4,373	-31.9%	1,348	2,511	1,629	1,862	0	0	0	0
Tennessee	17,652	19,824	-11.0%	17,097	19,232	0	0	0	0	554	592
West South Central	88,717	108,569	-18.3%	45,330	56,736	43,151	51,594	0	0	237	239
Arkansas	11,509	13,564	-15.1%	9,108	11,053	2,371	2,478	0	0	30	32
Louisiana	6,997	9,255	-24.4%	4,767	4,955	2,231	4,300	0	0	0	0
Oklahoma	8,904	15,070	-40.9%	7,709	14,041	987	823	0	0	207	206
Texas	61,308	70,680	-13.3%	23,746	26,688	37,562	43,992	0	0	0	0
Mountain	87,045	105,365	-17.4%	78,261	95,008	8,304	9,827	0	0	479	530
Arizona	16,041	21,007	-23.6%	16,041	21,007	0	0	0	0	0	0
Colorado	16,811	18,852	-10.8%	16,767	18,809	NM	NM	0	0	NM	NM
Idaho	36	42	-16.1%	0	0	0	0	0	0	36	42
Montana	7,408	8,889	-16.7%	NM	166	7,263	8,718	0	0	NM	NM
Nevada	1,197	1,349	-11.3%	715	897	482	452	0	0	0	0
New Mexico	9,869	11,577	-14.8%	9,869	11,577	0	0	0	0	0	0
Utah	13,676	18,650	-26.7%	13,275	18,220	163	202	0	0	238	229
Wyoming	22,008	24,999	-12.0%	21,454	24,333	355	415	0	0	199	251
Pacific Contiguous	2,050	2,811	-27.1%	665	627	1,162	1,962	0	0	223	221
California	202	234	-13.6%	0	0	0	NM	0	0	202	199
Oregon	665	627	6.0%	665	627	0	0	0	0	0	0
Washington	1,183	1,949	-39.3%	0	0	1,162	1,927	0	0	20	22
Pacific Noncontiguous	1,227	1,093	12.2%	186	172	959	839	59	59	NM	NM
Alaska	335	343	-2.6%	186	172	89	112	59	59	0	0
Hawaii	892	750	19.0%	0	0	870	727	0	0	NM	NM
U.S. Total	686,301	827,355	-17.0%	519,201	619,347	160,947	200,927	248	316	5,904	6,765

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 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	64	57	12.7%	10	5	48	46	NM	NM	NM	NM
Connecticut	15	21	-25.5%	NM	NM	14	19	NM	NM	NM	NM
Maine	NM	13	NM	NM	NM	4	12	NM	NM	NM	NM
Massachusetts	34	18	89.8%	2	NM	30	14	NM	NM	NM	NM
New Hampshire	7	NM	NM	7	2	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	97	82	18.5%	29	21	62	52	NM	NM	NM	3
New Jersey	NM	7	NM	NM	NM	NM	6	NM	NM	NM	NM
New York	65	46	39.7%	29	21	31	17	NM	NM	2	3
Pennsylvania	30	29	4.5%	NM	NM	29	28	NM	NM	NM	NM
East North Central	51	53	-5.5%	34	37	15	14	NM	NM	NM	2
Illinois	4	4	1.2%	NM	NM	2	2	NM	NM	NM	NM
Indiana	11	12	-6.6%	10	10	NM	NM	NM	NM	1	1
Michigan	14	12	14.2%	13	11	0	0	NM	NM	NM	NM
Ohio	17	25	-29.9%	5	13	12	11	NM	NM	NM	NM
Wisconsin	5	1	267.1%	4	1	0	NM	NM	NM	NM	NM
West North Central	21	27	-22.4%	20	25	NM	NM	NM	NM	NM	NM
Iowa	4	6	-37.8%	4	6	NM	NM	NM	NM	NM	NM
Kansas	2	2	9.5%	2	2	0	0	0	0	0	0
Minnesota	6	4	72.5%	5	2	NM	NM	NM	NM	NM	NM
Missouri	4	9	-50.0%	4	9	0	0	NM	NM	0	0
Nebraska	3	4	-25.5%	3	4	0	0	0	0	0	0
North Dakota	1	3	-49.4%	1	3	0	0	NM	NM	NM	NM
South Dakota	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
South Atlantic	340	229	48.6%	296	187	34	33	NM	NM	NM	7
Delaware	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	214	29	637.2%	208	27	3	NM	0	0	NM	NM
Georgia	8	4	77.1%	5	2	NM	NM	NM	NM	NM	3
Maryland	16	26	-37.3%	NM	NM	15	23	NM	NM	NM	NM
North Carolina	18	16	12.3%	15	14	NM	NM	NM	NM	NM	NM
South Carolina	8	4	86.5%	7	4	NM	NM	NM	NM	0	0
Virginia	64	132	-51.4%	54	126	9	5	NM	NM	NM	NM
West Virginia	6	15	-56.1%	5	14	2	1	0	0	0	0
East South Central	35	31	11.0%	31	29	NM	NM	NM	NM	NM	NM
Alabama	NM	6	NM	1	3	NM	NM	0	0	NM	NM
Kentucky	12	10	24.7%	12	10	0	0	0	0	0	0
Mississippi	2	1	34.5%	2	1	0	0	0	0	0	0
Tennessee	16	15	12.1%	16	14	NM	NM	NM	NM	NM	NM
West South Central	8	15	-45.6%	6	8	1	5	NM	NM	NM	1
Arkansas	1	4	-65.8%	1	2	1	1	0	0	0	1
Louisiana	1	2	-49.2%	1	1	0	0	0	0	0	0
Oklahoma	NM	NM	NM	0	1	0	0	NM	NM	NM	NM
Texas	5	8	-34.8%	4	4	1	4	NM	NM	NM	NM
Mountain	18	20	-9.7%	14	18	3	1	NM	NM	NM	NM
Arizona	4	1	344.6%	4	1	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	3	2	90.8%	NM	NM	2	1	0	0	0	0
Nevada	2	2	43.3%	2	1	0	0	0	0	0	0
New Mexico	3	6	-49.5%	3	6	0	0	0	0	NM	NM
Utah	2	2	5.1%	2	2	NM	NM	0	0	NM	NM
Wyoming	2	7	-63.0%	2	6	0	0	0	0	NM	NM
Pacific Contiguous	20	8	147.9%	4	4	2	NM	NM	NM	13	2
California	17	5	206.2%	3	3	NM	NM	NM	NM	13	1
Oregon	1	1	26.1%	1	1	0	0	NM	NM	0	0
Washington	2	2	24.3%	NM	NM	1	NM	NM	NM	NM	NM
Pacific Noncontiguous	619	684	-9.4%	473	528	129	140	NM	NM	16	15
Alaska	54	69	-21.9%	50	64	0	0	NM	NM	3	5
Hawaii	565	614	-8.0%	423	464	129	140	0	0	NM	10
U.S. Total	1,272	1,205	5.5%	917	863	297	293	NM	13	48	36

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

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

by State, by Sector, Year-to-Date through July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	294	1,945	-84.9%	36	167	222	1,660	29	84	NM	33
Connecticut	46	406	-88.8%	4	4	39	395	NM	NM	NM	NM
Maine	91	502	-81.9%	NM	NM	85	470	NM	NM	5	30
Massachusetts	122	768	-84.1%	13	53	92	663	17	51	NM	NM
New Hampshire	18	165	-89.1%	13	100	NM	52	NM	NM	NM	NM
Rhode Island	17	101	-83.5%	6	8	6	80	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	650	2,501	-74.0%	194	771	413	1,624	NM	45	26	61
New Jersey	57	283	-79.9%	NM	NM	56	281	NM	NM	NM	NM
New York	427	1,731	-75.4%	193	769	197	863	NM	43	21	55
Pennsylvania	166	487	-65.9%	1	NM	160	480	NM	NM	4	NM
East North Central	340	369	-7.9%	224	258	100	92	NM	NM	12	17
Illinois	44	32	38.2%	12	12	31	20	1	NM	NM	NM
Indiana	74	110	-32.4%	67	99	NM	NM	NM	NM	7	11
Michigan	81	72	12.2%	79	70	0	NM	NM	NM	NM	2
Ohio	120	134	-11.0%	49	61	68	70	NM	NM	2	NM
Wisconsin	21	21	1.3%	17	17	2	1	NM	NM	NM	NM
West North Central	145	197	-26.4%	136	183	NM	NM	NM	3	NM	NM
Iowa	29	29	-0.1%	28	28	0	NM	NM	NM	NM	NM
Kansas	15	32	-54.6%	15	32	0	0	0	0	0	0
Minnesota	23	28	-20.4%	15	16	NM	NM	NM	3	NM	NM
Missouri	43	59	-27.3%	43	59	0	0	NM	NM	0	0
Nebraska	16	15	3.3%	16	15	0	0	0	0	0	0
North Dakota	18	17	4.7%	17	17	0	0	NM	NM	NM	NM
South Dakota	NM	16	NM	NM	16	NM	NM	NM	NM	0	0
South Atlantic	1,423	2,370	-40.0%	1,055	1,727	312	557	NM	NM	53	65
Delaware	47	138	-66.1%	NM	NM	45	135	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	423	369	14.6%	404	351	4	NM	0	0	15	15
Georgia	85	128	-33.5%	44	54	20	46	1	2	19	26
Maryland	127	197	-35.7%	7	8	118	169	NM	NM	NM	NM
North Carolina	186	355	-47.7%	151	324	29	22	NM	NM	NM	8
South Carolina	87	163	-46.6%	76	142	NM	12	NM	NM	9	9
Virginia	403	929	-56.6%	308	766	91	156	NM	NM	NM	5
West Virginia	66	91	-27.6%	64	78	2	13	0	0	0	0
East South Central	184	247	-25.7%	164	215	5	13	NM	NM	14	19
Alabama	35	65	-45.9%	18	37	5	12	0	0	NM	16
Kentucky	65	78	-16.7%	65	78	0	0	0	0	0	0
Mississippi	10	12	-13.1%	9	10	0	0	0	0	1	1
Tennessee	74	93	-20.5%	72	90	1	NM	NM	NM	NM	NM
West South Central	95	177	-46.7%	62	108	29	62	NM	NM	NM	7
Arkansas	25	36	-29.6%	17	24	6	7	0	0	2	5
Louisiana	11	63	-83.3%	9	53	2	10	0	0	0	0
Oklahoma	9	5	81.5%	9	5	0	0	NM	NM	NM	NM
Texas	50	73	-31.8%	28	27	21	45	NM	NM	NM	NM
Mountain	144	141	2.3%	127	127	14	11	NM	NM	NM	4
Arizona	34	29	17.6%	34	29	0	0	NM	NM	0	0
Colorado	NM	6	NM	NM	6	0	0	0	NM	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	13	NM	NM	NM	12	9	0	0	0	0
Nevada	8	10	-17.7%	7	8	2	2	0	0	0	0
New Mexico	33	45	-25.9%	33	45	0	0	0	0	NM	NM
Utah	17	11	50.0%	16	11	NM	NM	0	0	NM	NM
Wyoming	31	27	15.9%	27	23	0	0	0	0	NM	4
Pacific Contiguous	78	74	6.4%	22	23	10	20	NM	NM	46	30
California	64	59	8.0%	19	19	NM	16	NM	NM	41	24
Oregon	2	NM	NM	2	3	0	0	NM	NM	0	0
Washington	12	11	9.0%	NM	NM	5	4	NM	NM	5	6
Pacific Noncontiguous	4,043	4,380	-7.7%	3,173	3,396	769	859	4	3	NM	121
Alaska	416	455	-8.6%	391	426	0	0	NM	NM	23	27
Hawaii	3,628	3,925	-7.6%	2,783	2,970	769	859	2	2	NM	94
U.S. Total	7,396	12,401	-40.4%	5,194	6,975	1,878	4,907	60	161	263	358

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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, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 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	NM	NM	0	0	0	0	0	0	NM	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	187	339	-44.7%	75	213	94	99	0	0	NM	27
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	150	-100.0%	0	150	0	0	0	0	0	0
Michigan	81	71	14.5%	65	56	0	0	0	0	NM	NM
Ohio	95	99	-4.4%	0	0	94	99	0	0	NM	NM
Wisconsin	11	18	-40.4%	10	7	0	0	0	0	1	12
West North Central	NM	NM	NM	0	0	0	0	1	0	NM	NM
Iowa	NM	NM	NM	0	0	0	0	1	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	242	221	9.4%	233	209	0	0	0	0	9	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	233	209	11.2%	233	209	0	0	0	0	0	0
Georgia	9	12	-24.4%	0	0	0	0	0	0	9	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	120	80	50.8%	120	80	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	120	80	50.8%	120	80	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	442	434	2.0%	405	396	0	0	0	0	NM	NM
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	432	422	2.4%	405	396	0	0	0	0	NM	NM
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	12	NM	0	0	0	0	0	0	NM	12
Mountain	41	41	1.4%	0	0	41	41	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	41	41	1.4%	0	0	41	41	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	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	1,062	1,142	-7.0%	833	898	136	140	1	0	92	104

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 July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 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	135	115	17.1%	0	0	0	0	0	0	135	115
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	108	108	0.4%	0	0	0	0	0	0	108	108
East North Central	1,522	1,913	-20.4%	864	1,066	522	685	0	0	136	162
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	497	621	-19.9%	497	621	0	0	0	0	0	0
Michigan	436	511	-14.6%	333	412	3	13	0	0	100	86
Ohio	524	672	-22.0%	0	0	520	672	0	0	NM	NM
Wisconsin	64	109	-40.9%	33	33	0	0	0	0	31	76
West North Central	52	42	24.6%	0	0	0	0	4	4	NM	37
Iowa	52	42	24.6%	0	0	0	0	4	4	NM	37
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	1,454	1,007	44.4%	1,378	904	0	0	0	0	76	103
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	1,378	904	52.4%	1,378	904	0	0	0	0	0	0
Georgia	76	103	-26.3%	0	0	0	0	0	0	76	103
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	679	642	5.7%	679	642	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	679	642	5.7%	679	642	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	2,861	2,570	11.3%	2,615	2,339	0	0	0	0	246	231
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	2,788	2,483	12.3%	2,615	2,339	0	0	0	0	172	145
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	73	87	-15.8%	0	0	0	0	0	0	73	87
Mountain	244	278	-12.3%	0	0	244	278	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	244	278	-12.3%	0	0	244	278	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	6,946	6,571	5.7%	5,536	4,951	766	967	4	4	640	649

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, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	6,321	6,341	-0.3%	78	69	6,013	6,063	95	94	136	115
Connecticut	1,622	1,624	-0.1%	0	0	1,538	1,540	39	39	46	45
Maine	530	213	148.9%	0	0	456	157	NM	NM	71	53
Massachusetts	2,810	3,007	-6.5%	62	64	2,685	2,881	47	47	NM	14
New Hampshire	571	591	-3.3%	16	5	551	581	NM	NM	NM	NM
Rhode Island	789	907	-13.0%	0	0	784	903	NM	NM	0	0
Vermont	0	0	119.5%	0	0	0	0	0	0	0	0
Middle Atlantic	19,628	16,463	19.2%	1,599	1,529	17,722	14,652	113	103	193	179
New Jersey	5,179	3,842	34.8%	NM	NM	5,107	3,773	NM	19	38	39
New York	6,854	6,275	9.2%	1,582	1,516	5,163	4,670	76	69	32	20
Pennsylvania	7,595	6,346	19.7%	NM	NM	7,452	6,209	NM	15	123	120
East North Central	12,234	8,929	37.0%	5,679	3,850	6,233	4,776	156	146	167	157
Illinois	2,496	1,331	87.5%	266	139	2,134	1,102	48	47	47	44
Indiana	1,953	1,375	42.0%	1,575	1,161	312	144	19	17	48	53
Michigan	3,137	2,091	50.0%	1,431	554	1,596	1,438	60	56	NM	43
Ohio	2,863	2,680	6.8%	814	682	2,028	1,982	NM	NM	NM	NM
Wisconsin	1,785	1,451	23.0%	1,592	1,313	163	110	NM	15	NM	13
West North Central	3,176	2,847	11.5%	2,637	2,411	449	374	NM	30	NM	33
Iowa	456	426	7.0%	434	410	NM	NM	NM	NM	NM	NM
Kansas	375	314	19.4%	348	297	0	0	0	0	NM	NM
Minnesota	1,135	1,004	13.1%	904	854	207	131	NM	14	NM	NM
Missouri	864	756	14.3%	610	505	242	243	12	8	NM	NM
Nebraska	129	144	-10.3%	128	144	0	0	NM	NM	NM	0
North Dakota	74	54	37.1%	72	51	0	0	0	0	NM	NM
South Dakota	142	149	-4.8%	142	149	0	0	0	0	0	0
South Atlantic	34,819	31,112	11.9%	27,372	24,504	7,021	6,244	66	57	359	307
Delaware	998	777	28.3%	NM	NM	888	680	0	0	99	90
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	16,343	14,914	9.6%	14,661	13,980	1,550	812	NM	NM	125	117
Georgia	5,768	5,381	7.2%	4,352	3,309	1,381	2,028	0	0	34	44
Maryland	1,002	717	39.7%	0	0	944	669	49	43	NM	NM
North Carolina	3,802	3,448	10.3%	3,188	2,937	591	494	2	1	NM	NM
South Carolina	1,855	1,766	5.0%	1,531	1,562	317	201	NM	NM	NM	NM
Virginia	4,948	3,893	27.1%	3,600	2,690	1,318	1,171	NM	NM	30	31
West Virginia	96	207	-53.7%	30	18	32	189	0	0	34	0
East South Central	13,366	11,817	13.1%	8,597	6,929	4,582	4,706	NM	14	171	168
Alabama	6,026	5,488	9.8%	1,807	1,396	4,137	3,996	0	0	82	97
Kentucky	949	760	24.9%	833	598	95	137	0	0	22	24
Mississippi	5,166	4,607	12.1%	4,781	4,002	350	572	NM	NM	33	31
Tennessee	1,225	962	27.3%	1,176	933	NM	NM	NM	12	34	16
West South Central	37,451	37,357	0.3%	13,245	12,147	18,208	19,493	101	91	5,897	5,627
Arkansas	2,182	1,709	27.7%	985	622	1,182	1,064	NM	NM	16	23
Louisiana	6,703	6,671	0.5%	4,019	3,882	458	437	NM	NM	2,210	2,336
Oklahoma	4,278	3,941	8.6%	2,882	2,426	1,379	1,499	NM	NM	NM	NM
Texas	24,288	25,036	-3.0%	5,359	5,217	15,190	16,493	80	72	3,659	3,254
Mountain	11,909	11,010	8.2%	8,512	7,431	3,269	3,426	32	33	95	120
Arizona	4,881	4,655	4.9%	2,481	2,243	2,389	2,402	11	11	0	0
Colorado	1,572	1,206	30.3%	1,308	951	263	252	0	NM	NM	NM
Idaho	342	433	-21.1%	266	269	68	160	0	0	NM	4
Montana	100	91	10.4%	90	82	NM	NM	0	0	0	0
Nevada	2,976	2,798	6.4%	2,797	2,619	156	153	5	NM	18	21
New Mexico	1,097	956	14.8%	722	577	364	367	9	9	NM	NM
Utah	896	807	11.0%	833	683	NM	80	7	7	38	37
Wyoming	NM	63	NM	NM	NM	NM	NM	0	0	NM	53
Pacific Contiguous	13,318	15,245	-12.6%	5,009	5,787	7,194	8,303	155	152	961	1,003
California	10,491	11,919	-12.0%	3,497	3,641	5,907	7,141	146	143	941	994
Oregon	1,511	1,691	-10.7%	713	756	775	922	NM	NM	NM	NM
Washington	1,316	1,634	-19.4%	798	1,390	512	240	NM	NM	4	3
Pacific Noncontiguous	237	245	-3.0%	231	237	0	0	NM	NM	NM	NM
Alaska	237	245	-3.0%	231	237	0	0	NM	NM	NM	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	152,459	141,365	7.8%	72,960	64,894	70,692	68,036	770	720	8,037	7,716

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

by State, by Sector, Year-to-Date through July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	31,911	29,621	7.7%	154	195	30,437	28,149	566	575	753	701
Connecticut	10,447	9,484	10.1%	1	1	9,958	8,987	224	230	263	266
Maine	2,278	1,537	48.2%	0	0	1,882	1,183	NM	NM	382	340
Massachusetts	12,969	11,368	14.1%	129	187	12,458	10,808	291	295	91	78
New Hampshire	2,481	3,449	-28.1%	24	6	2,432	3,416	NM	NM	NM	NM
Rhode Island	3,736	3,781	-1.2%	0	0	3,707	3,755	NM	26	0	0
Vermont	0	1	-78.2%	0	1	0	0	0	0	0	0
Middle Atlantic	95,818	85,289	12.3%	7,266	6,811	86,759	76,753	682	636	1,111	1,089
New Jersey	25,303	20,313	24.6%	NM	NM	24,905	19,918	114	111	223	230
New York	32,840	31,978	2.7%	7,194	6,750	25,009	24,662	471	439	165	126
Pennsylvania	37,675	32,998	14.2%	NM	NM	36,845	32,172	96	86	723	733
East North Central	67,444	51,934	29.9%	29,630	22,312	35,761	27,760	933	880	1,120	981
Illinois	10,095	5,921	70.5%	1,001	299	8,585	5,072	243	296	266	255
Indiana	11,638	9,663	20.4%	9,215	7,834	2,001	1,417	110	85	311	327
Michigan	18,203	11,717	55.3%	5,811	2,793	11,651	8,307	397	345	344	272
Ohio	17,008	16,757	1.5%	4,092	4,118	12,801	12,542	81	61	34	37
Wisconsin	10,500	7,875	33.3%	9,511	7,269	723	422	102	94	164	91
West North Central	14,549	10,186	42.8%	11,949	8,647	2,051	1,196	237	172	312	170
Iowa	2,073	1,459	42.1%	1,921	1,359	NM	NM	NM	48	NM	53
Kansas	1,237	907	36.4%	1,119	856	0	0	0	0	118	50
Minnesota	5,992	4,057	47.7%	4,869	3,517	942	408	102	85	79	47
Missouri	3,766	2,738	37.6%	2,590	1,909	1,109	788	65	39	NM	NM
Nebraska	447	304	47.2%	434	301	0	0	NM	NM	NM	NM
North Dakota	330	204	61.6%	314	188	0	0	0	0	NM	NM
South Dakota	703	517	36.2%	703	517	0	0	0	0	0	0
South Atlantic	189,113	175,173	8.0%	152,811	143,016	33,841	29,851	368	310	2,093	1,997
Delaware	4,444	3,985	11.5%	NM	NM	3,840	3,364	0	0	568	593
District of Columbia	37	40	-5.4%	0	0	0	0	37	40	0	0
Florida	93,218	89,272	4.4%	84,541	83,988	7,836	4,455	NM	NM	807	811
Georgia	32,042	28,893	10.9%	23,621	19,132	8,178	9,487	0	0	242	274
Maryland	3,227	2,491	29.5%	0	0	2,899	2,218	276	242	52	32
North Carolina	23,745	21,478	10.6%	20,768	19,003	2,849	2,393	7	3	121	79
South Carolina	8,746	8,739	0.1%	7,140	7,817	1,555	903	NM	NM	41	16
Virginia	22,988	19,623	17.2%	16,628	12,955	6,149	6,472	NM	NM	207	192
West Virginia	666	654	1.7%	76	95	533	559	0	0	56	NM
East South Central	74,437	67,789	9.8%	46,451	39,252	26,764	27,375	89	84	1,133	1,078
Alabama	33,102	32,452	2.0%	9,987	8,686	22,493	23,159	0	0	621	607
Kentucky	4,947	2,880	71.8%	4,499	2,374	313	358	0	0	135	148
Mississippi	29,920	27,079	10.5%	25,727	22,992	3,952	3,854	NM	NM	227	222
Tennessee	6,468	5,378	20.3%	6,237	5,200	NM	NM	76	72	150	101
West South Central	208,277	203,506	2.3%	66,953	60,183	101,855	106,863	587	513	38,882	35,946
Arkansas	10,250	9,886	3.7%	4,415	2,574	5,652	7,099	NM	NM	182	212
Louisiana	40,409	37,032	9.1%	21,500	21,318	3,615	1,811	107	108	15,187	13,796
Oklahoma	21,844	19,783	10.4%	14,795	12,684	6,942	7,008	NM	NM	88	87
Texas	135,774	136,804	-0.8%	26,243	23,608	85,647	90,945	459	399	23,426	21,852
Mountain	58,747	50,015	17.5%	44,606	35,567	13,137	13,475	191	204	814	769
Arizona	19,892	16,278	22.2%	12,090	8,534	7,735	7,676	66	68	0	0
Colorado	8,071	5,850	38.0%	6,804	4,458	1,257	1,374	0	NM	NM	NM
Idaho	1,889	1,856	1.8%	1,154	1,073	688	757	0	0	47	27
Montana	511	395	29.4%	462	360	NM	NM	0	0	0	0
Nevada	16,729	15,457	8.2%	15,610	14,332	943	958	31	32	145	135
New Mexico	5,953	5,357	11.1%	3,616	2,904	2,255	2,375	53	54	NM	23
Utah	5,293	4,447	19.0%	4,808	3,882	207	292	41	42	236	230
Wyoming	410	376	8.9%	NM	NM	NM	NM	0	0	347	344
Pacific Contiguous	66,141	74,814	-11.6%	24,997	28,191	33,954	39,358	947	957	6,243	6,307
California	52,730	61,121	-13.7%	17,426	20,134	28,313	33,851	883	899	6,107	6,237
Oregon	7,474	7,915	-5.6%	3,225	3,137	4,117	4,689	NM	48	84	41
Washington	5,937	5,778	2.8%	4,345	4,920	1,525	817	NM	NM	51	30
Pacific Noncontiguous	1,512	1,781	-15.1%	1,466	1,735	0	0	NM	NM	NM	44
Alaska	1,512	1,781	-15.1%	1,466	1,735	0	0	NM	NM	NM	44
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	807,949	750,108	7.7%	386,282	345,911	364,560	350,778	4,606	4,334	52,501	49,084

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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 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 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	57	56	2.8%	0	0	0	0	0	0	57	56
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	46	38	23.0%	0	0	0	0	0	0	46	38
East North Central	368	498	-26.2%	24	17	154	193	0	0	190	288
Illinois	NM	37	NM	0	0	0	1	0	0	NM	36
Indiana	151	226	-33.2%	NM	NM	0	0	0	0	147	222
Michigan	128	129	-1.0%	21	12	107	117	0	0	0	0
Ohio	67	106	-36.9%	0	0	46	76	0	0	NM	NM
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	36	23	54.7%	0	0	0	0	0	0	36	23
Delaware	33	20	62.9%	0	0	0	0	0	0	33	20
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-8.5%	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	3	3	1.9%	0	0	0	0	0	0	3	3
East South Central	NM	22	NM	0	0	0	0	0	0	NM	22
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	1	1	46.8%	0	0	0	0	0	0	1	1
West South Central	405	433	-6.7%	0	0	124	83	0	0	281	351
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	161	228	-29.5%	0	0	0	0	0	0	161	228
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	244	205	18.8%	0	0	124	83	0	0	120	122
Mountain	NM	41	NM	0	0	0	3	0	0	NM	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	0	2	-100.0%	0	0	0	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	NM	38	NM	0	0	0	0	0	0	NM	38
Pacific Contiguous	159	190	-16.3%	0	0	36	30	0	0	123	160
California	123	160	-23.1%	0	0	0	0	0	0	123	160
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	36	30	19.8%	0	0	36	30	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	1,044	1,274	-18.1%	24	17	314	309	0	0	706	948

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

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

by State, by Sector, Year-to-Date through July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 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	419	354	18.4%	0	0	0	0	0	0	419	354
New Jersey	105	98	6.7%	0	0	0	0	0	0	105	98
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	315	256	22.9%	0	0	0	0	0	0	315	256
East North Central	2,949	2,920	1.0%	80	147	1,347	1,194	0	0	1,521	1,578
Illinois	216	201	7.5%	0	0	4	1	0	0	211	200
Indiana	1,173	1,254	-6.5%	NM	NM	0	0	0	0	1,154	1,239
Michigan	967	916	5.6%	61	132	906	784	0	0	0	0
Ohio	593	549	7.9%	0	0	437	410	0	0	156	140
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	NM	27	NM	0	0	0	0	0	0	NM	27
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	27	NM	0	0	0	0	0	0	NM	27
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	177	125	41.9%	0	0	0	0	0	0	177	125
Delaware	161	105	53.4%	0	0	0	0	0	0	161	105
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2	2	16.8%	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	13	17	-24.9%	0	0	0	0	0	0	13	17
East South Central	29	48	-39.6%	0	0	0	0	0	0	29	48
Alabama	21	42	-50.3%	0	0	0	0	0	0	21	42
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	9	7	25.9%	0	0	0	0	0	0	9	7
West South Central	2,831	2,852	-0.7%	0	0	727	679	0	0	2,104	2,173
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,342	1,436	-6.6%	0	0	0	0	0	0	1,342	1,436
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,489	1,416	5.2%	0	0	727	679	0	0	762	737
Mountain	243	258	-6.0%	0	0	7	14	0	0	236	244
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	11	-46.5%	0	0	6	11	0	0	0	0
Nevada	1	3	-74.7%	0	0	1	3	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	236	244	-3.3%	0	0	0	0	0	0	236	244
Pacific Contiguous	1,156	1,144	1.0%	0	0	238	219	0	0	917	925
California	917	925	-0.8%	0	0	0	0	0	0	917	925
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	238	219	8.6%	0	0	238	219	0	0	0	0
Pacific Noncontiguous	37	31	20.6%	0	0	0	0	0	0	37	31
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	37	31	20.6%	0	0	0	0	0	0	37	31
U.S. Total	7,868	7,759	1.4%	80	147	2,319	2,107	0	0	5,469	5,505

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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, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	2,976	2,984	-0.3%	0	0	2,976	2,984	0	0	0	0
Connecticut	1,545	1,555	-0.6%	0	0	1,545	1,555	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	501	503	-0.3%	0	0	501	503	0	0	0	0
New Hampshire	929	926	0.3%	0	0	929	926	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	12,349	14,183	-12.9%	0	0	12,349	14,183	0	0	0	0
New Jersey	1,355	3,029	-55.3%	0	0	1,355	3,029	0	0	0	0
New York	3,667	3,899	-6.0%	0	0	3,667	3,899	0	0	0	0
Pennsylvania	7,327	7,254	1.0%	0	0	7,327	7,254	0	0	0	0
East North Central	13,782	13,444	2.5%	2,101	1,683	11,681	11,761	0	0	0	0
Illinois	8,625	8,675	-0.6%	0	0	8,625	8,675	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,684	2,269	18.3%	2,101	1,683	583	586	0	0	0	0
Ohio	1,583	1,609	-1.7%	0	0	1,583	1,609	0	0	0	0
Wisconsin	891	891	0.0%	0	0	891	891	0	0	0	0
West North Central	4,389	4,186	4.9%	3,956	3,751	433	435	0	0	0	0
Iowa	433	435	-0.3%	0	0	433	435	0	0	0	0
Kansas	878	886	-0.9%	878	886	0	0	0	0	0	0
Minnesota	1,262	1,258	0.4%	1,262	1,258	0	0	0	0	0	0
Missouri	889	784	13.3%	889	784	0	0	0	0	0	0
Nebraska	927	823	12.6%	927	823	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	18,280	17,804	2.7%	16,999	16,524	1,281	1,280	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	2,646	2,694	-1.8%	2,646	2,694	0	0	0	0	0	0
Georgia	3,024	3,018	0.2%	3,024	3,018	0	0	0	0	0	0
Maryland	1,281	1,280	0.1%	0	0	1,281	1,280	0	0	0	0
North Carolina	3,805	3,769	1.0%	3,805	3,769	0	0	0	0	0	0
South Carolina	4,895	4,829	1.4%	4,895	4,829	0	0	0	0	0	0
Virginia	2,631	2,213	18.9%	2,631	2,213	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,516	7,019	-7.2%	6,516	7,019	0	0	0	0	0	0
Alabama	3,532	3,704	-4.7%	3,532	3,704	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	294	1,031	-71.4%	294	1,031	0	0	0	0	0	0
Tennessee	2,690	2,284	17.7%	2,690	2,284	0	0	0	0	0	0
West South Central	6,636	6,586	0.8%	2,925	2,872	3,710	3,715	0	0	0	0
Arkansas	1,354	1,344	0.7%	1,354	1,344	0	0	0	0	0	0
Louisiana	1,572	1,528	2.9%	1,572	1,528	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,710	3,715	-0.1%	0	0	3,710	3,715	0	0	0	0
Mountain	2,896	2,945	-1.6%	2,896	2,945	0	0	0	0	0	0
Arizona	2,896	2,945	-1.6%	2,896	2,945	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	2,526	2,263	11.6%	2,526	2,263	0	0	0	0	0	0
California	1,695	1,682	0.8%	1,695	1,682	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	830	581	42.9%	830	581	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	70,349	71,412	-1.5%	37,918	37,055	32,430	34,357	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 July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	18,564	19,489	-4.7%	0	0	18,564	19,489	0	0	0	0
Connecticut	9,019	10,570	-14.7%	0	0	9,019	10,570	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	3,366	2,577	30.6%	0	0	3,366	2,577	0	0	0	0
New Hampshire	6,179	6,342	-2.6%	0	0	6,179	6,342	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	88,151	92,097	-4.3%	0	0	88,151	92,097	0	0	0	0
New Jersey	16,868	19,557	-13.7%	0	0	16,868	19,557	0	0	0	0
New York	23,325	25,676	-9.2%	0	0	23,325	25,676	0	0	0	0
Pennsylvania	47,958	46,863	2.3%	0	0	47,958	46,863	0	0	0	0
East North Central	91,094	89,970	1.3%	15,222	13,948	75,873	76,022	0	0	0	0
Illinois	56,779	56,425	0.6%	0	0	56,779	56,425	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	19,334	18,047	7.1%	15,222	13,948	4,112	4,099	0	0	0	0
Ohio	9,227	9,392	-1.8%	0	0	9,227	9,392	0	0	0	0
Wisconsin	5,755	6,105	-5.7%	0	0	5,755	6,105	0	0	0	0
West North Central	28,683	25,540	12.3%	25,708	22,513	2,975	3,027	0	0	0	0
Iowa	2,975	3,027	-1.7%	0	0	2,975	3,027	0	0	0	0
Kansas	6,184	4,184	47.8%	6,184	4,184	0	0	0	0	0	0
Minnesota	8,095	6,716	20.5%	8,095	6,716	0	0	0	0	0	0
Missouri	4,975	6,011	-17.2%	4,975	6,011	0	0	0	0	0	0
Nebraska	6,454	5,602	15.2%	6,454	5,602	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	121,440	117,810	3.1%	113,070	109,504	8,370	8,305	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	18,020	17,013	5.9%	18,020	17,013	0	0	0	0	0	0
Georgia	19,404	19,836	-2.2%	19,404	19,836	0	0	0	0	0	0
Maryland	8,370	8,305	0.8%	0	0	8,370	8,305	0	0	0	0
North Carolina	24,743	24,141	2.5%	24,743	24,141	0	0	0	0	0	0
South Carolina	33,070	31,920	3.6%	33,070	31,920	0	0	0	0	0	0
Virginia	17,833	16,593	7.5%	17,833	16,593	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	44,061	46,016	-4.2%	44,061	46,016	0	0	0	0	0	0
Alabama	23,678	23,926	-1.0%	23,678	23,926	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	4,656	6,698	-30.5%	4,656	6,698	0	0	0	0	0	0
Tennessee	15,727	15,393	2.2%	15,727	15,393	0	0	0	0	0	0
West South Central	43,329	42,287	2.5%	18,670	17,930	24,659	24,358	0	0	0	0
Arkansas	9,149	8,583	6.6%	9,149	8,583	0	0	0	0	0	0
Louisiana	9,521	9,347	1.9%	9,521	9,347	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	24,659	24,358	1.2%	0	0	24,659	24,358	0	0	0	0
Mountain	19,092	19,188	-0.5%	19,092	19,188	0	0	0	0	0	0
Arizona	19,092	19,188	-0.5%	19,092	19,188	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	16,360	15,431	6.0%	16,360	15,431	0	0	0	0	0	0
California	10,671	11,447	-6.8%	10,671	11,447	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	5,689	3,984	42.8%	5,689	3,984	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	470,774	467,827	0.6%	252,183	244,530	218,591	223,297	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, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	457	675	-32.4%	NM	90	375	553	NM	NM	NM	NM
Connecticut	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Maine	232	310	-25.3%	0	0	209	279	0	0	NM	NM
Massachusetts	NM	85	NM	NM	NM	NM	64	NM	NM	NM	NM
New Hampshire	62	120	-48.6%	NM	26	NM	93	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	NM	117	NM	NM	NM	NM	NM	0	0	0	0
Middle Atlantic	2,336	2,884	-19.0%	1,958	2,110	374	767	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,243	2,557	-12.3%	1,952	2,102	286	448	NM	NM	NM	NM
Pennsylvania	91	324	-71.9%	NM	NM	85	316	0	0	0	0
East North Central	392	352	11.6%	343	293	NM	NM	NM	NM	NM	NM
Illinois	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
Indiana	42	25	67.0%	42	25	0	0	0	0	0	0
Michigan	115	106	8.9%	106	97	NM	NM	0	0	NM	NM
Ohio	46	NM	NM	31	22	NM	NM	0	0	0	0
Wisconsin	178	161	10.4%	160	145	NM	NM	0	0	NM	NM
West North Central	964	1,113	-13.4%	946	1,096	NM	NM	0	0	NM	NM
Iowa	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	NM	NM	NM	NM	NM	NM	NM	0	0	NM	NM
Missouri	117	295	-60.2%	117	295	0	0	0	0	0	0
Nebraska	89	80	10.1%	89	80	0	0	0	0	0	0
North Dakota	195	202	-3.8%	195	202	0	0	0	0	0	0
South Dakota	460	439	4.7%	460	439	0	0	0	0	0	0
South Atlantic	908	1,263	-28.1%	783	917	79	288	NM	NM	45	57
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	203	253	-19.9%	200	250	NM	NM	0	0	NM	NM
Maryland	36	220	-83.8%	0	0	36	220	0	0	0	0
North Carolina	291	354	-18.0%	285	347	NM	NM	NM	NM	NM	NM
South Carolina	157	196	-20.0%	150	188	NM	NM	NM	NM	0	0
Virginia	101	80	26.0%	96	73	NM	NM	0	0	NM	NM
West Virginia	107	138	-22.9%	NM	NM	28	47	0	0	42	53
East South Central	1,172	1,984	-41.0%	1,171	1,984	NM	NM	0	0	0	0
Alabama	340	741	-54.2%	340	741	0	0	0	0	0	0
Kentucky	338	336	0.7%	337	335	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	494	907	-45.6%	494	907	0	0	0	0	0	0
West South Central	643	889	-27.7%	541	766	102	123	0	0	0	0
Arkansas	293	347	-15.6%	290	344	NM	NM	0	0	0	0
Louisiana	97	117	-17.3%	0	0	97	117	0	0	0	0
Oklahoma	186	360	-48.3%	186	360	0	0	0	0	0	0
Texas	67	65	3.1%	65	NM	NM	NM	0	0	0	0
Mountain	2,897	2,701	7.2%	2,776	2,588	120	112	NM	NM	0	0
Arizona	712	708	0.5%	712	708	0	0	0	0	0	0
Colorado	157	129	22.4%	140	113	NM	NM	NM	NM	0	0
Idaho	870	809	7.6%	783	725	88	83	0	0	0	0
Montana	771	704	9.5%	760	694	NM	NM	0	0	0	0
Nevada	158	167	-5.2%	155	164	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Wyoming	163	126	29.0%	162	126	NM	NM	0	0	0	0
Pacific Contiguous	11,484	9,145	25.6%	11,255	9,031	226	113	NM	NM	0	0
California	3,425	1,906	79.7%	3,241	1,830	181	75	NM	NM	0	0
Oregon	2,048	1,798	13.9%	2,025	1,777	NM	NM	0	0	0	0
Washington	6,011	5,440	10.5%	5,989	5,424	NM	NM	0	0	0	0
Pacific Noncontiguous	113	108	4.3%	107	104	2	1	0	0	NM	NM
Alaska	105	102	3.0%	105	102	0	0	0	0	0	0
Hawaii	NM	NM	NM	NM	NM	2	1	0	0	NM	NM
U.S. Total	21,365	21,114	1.2%	19,938	18,979	1,330	2,017	NM	NM	92	113

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

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

by State, by Sector, Year-to-Date through July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	4,601	4,644	-0.9%	644	597	3,711	3,791	NM	NM	242	252
Connecticut	279	266	5.2%	NM	NM	257	245	0	0	0	0
Maine	2,089	2,187	-4.5%	0	0	1,851	1,938	0	0	238	249
Massachusetts	587	556	5.7%	142	119	437	429	NM	NM	NM	NM
New Hampshire	857	910	-5.9%	214	209	643	700	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	785	723	8.6%	266	247	519	476	0	0	0	0
Middle Atlantic	18,441	17,081	8.0%	13,906	12,536	4,491	4,502	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	16,699	15,276	9.3%	13,854	12,487	2,801	2,747	NM	NM	NM	NM
Pennsylvania	1,720	1,787	-3.7%	NM	NM	1,669	1,737	0	0	0	0
East North Central	3,109	2,952	5.3%	2,670	2,522	326	317	NM	NM	111	112
Illinois	82	78	5.9%	NM	NM	50	47	NM	NM	0	0
Indiana	244	188	29.9%	244	188	0	0	0	0	0	0
Michigan	973	956	1.8%	885	875	71	63	0	0	NM	NM
Ohio	331	262	26.1%	185	115	146	147	0	0	0	0
Wisconsin	1,480	1,469	0.7%	1,326	1,315	59	59	0	0	94	94
West North Central	6,104	6,821	-10.5%	5,954	6,685	129	124	0	0	21	NM
Iowa	516	525	-1.7%	512	521	NM	NM	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	347	328	5.8%	213	207	113	109	0	0	21	NM
Missouri	952	1,003	-5.0%	952	1,003	0	0	0	0	0	0
Nebraska	724	704	2.9%	724	704	0	0	0	0	0	0
North Dakota	1,178	1,369	-13.9%	1,178	1,369	0	0	0	0	0	0
South Dakota	2,374	2,882	-17.6%	2,374	2,882	0	0	0	0	0	0
South Atlantic	10,450	8,324	25.5%	8,656	6,405	1,407	1,512	NM	NM	377	399
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	135	129	4.5%	135	129	0	0	0	0	0	0
Georgia	2,140	1,676	27.7%	2,118	1,656	NM	NM	0	0	NM	NM
Maryland	1,067	1,178	-9.4%	0	0	1,067	1,178	0	0	0	0
North Carolina	3,411	2,528	35.0%	3,360	2,482	NM	NM	NM	NM	NM	NM
South Carolina	1,870	1,441	29.8%	1,816	1,394	NM	NM	NM	NM	0	0
Virginia	944	552	71.0%	894	506	NM	NM	0	0	NM	NM
West Virginia	883	820	7.6%	333	239	197	207	0	0	353	375
East South Central	13,168	13,494	-2.4%	13,163	13,489	NM	NM	0	0	0	0
Alabama	6,015	5,946	1.1%	6,015	5,946	0	0	0	0	0	0
Kentucky	2,171	2,075	4.6%	2,166	2,070	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	4,983	5,473	-9.0%	4,983	5,473	0	0	0	0	0	0
West South Central	5,612	4,673	20.1%	4,861	4,010	751	663	0	0	0	0
Arkansas	2,501	1,935	29.3%	2,477	1,921	NM	NM	0	0	0	0
Louisiana	705	629	12.1%	0	0	705	629	0	0	0	0
Oklahoma	1,649	1,614	2.2%	1,649	1,614	0	0	0	0	0	0
Texas	757	495	52.8%	735	475	NM	NM	0	0	0	0
Mountain	20,042	19,639	2.1%	19,220	18,895	816	740	NM	NM	0	0
Arizona	4,436	3,974	11.6%	4,436	3,974	0	0	0	0	0	0
Colorado	1,182	967	22.2%	1,044	835	133	129	NM	NM	0	0
Idaho	5,955	5,543	7.4%	5,399	5,056	556	487	0	0	0	0
Montana	6,102	6,621	-7.8%	6,009	6,528	93	92	0	0	0	0
Nevada	1,148	1,516	-24.3%	1,124	1,494	NM	NM	0	0	0	0
New Mexico	89	78	14.4%	89	78	0	0	0	0	0	0
Utah	414	386	7.1%	409	382	NM	NM	0	0	0	0
Wyoming	716	554	29.2%	710	549	NM	NM	0	0	0	0
Pacific Contiguous	89,998	77,663	15.9%	88,704	76,977	1,280	681	NM	NM	0	0
California	18,038	8,374	115.4%	17,144	8,048	879	321	NM	NM	0	0
Oregon	22,464	20,920	7.4%	22,276	20,741	188	179	0	0	0	0
Washington	49,497	48,369	2.3%	49,284	48,188	213	182	0	0	0	0
Pacific Noncontiguous	903	964	-6.3%	859	919	12	14	0	0	NM	NM
Alaska	846	905	-6.6%	846	905	0	0	0	0	0	0
Hawaii	58	59	-2.6%	NM	NM	12	14	0	0	NM	NM
U.S. Total	172,428	156,256	10.4%	158,637	143,035	12,929	12,349	NM	NM	824	848

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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, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	894	866	3.2%	77	75	713	662	15	17	90	113
Connecticut	78	72	8.3%	NM	0	78	72	0	0	0	0
Maine	347	332	4.6%	0	0	250	209	8	10	89	113
Massachusetts	203	187	8.1%	NM	NM	193	179	NM	NM	NM	NM
New Hampshire	178	185	-4.1%	31	30	144	151	NM	4	0	0
Rhode Island	21	22	-4.3%	0	0	20	21	NM	NM	0	0
Vermont	68	68	0.0%	40	39	28	29	NM	NM	0	0
Middle Atlantic	1,018	954	6.7%	14	10	872	804	59	66	73	74
New Jersey	193	170	13.7%	14	10	143	128	36	31	NM	NM
New York	447	419	6.5%	0	0	410	375	18	21	19	23
Pennsylvania	378	365	3.8%	0	0	319	300	NM	13	54	51
East North Central	1,531	1,498	2.2%	242	210	1,127	1,124	21	26	141	139
Illinois	457	455	0.3%	NM	NM	455	454	NM	NM	0	0
Indiana	231	232	-0.3%	31	28	193	197	NM	NM	NM	6
Michigan	504	459	9.8%	119	95	311	283	16	21	59	59
Ohio	126	126	-0.5%	NM	NM	97	94	NM	NM	26	29
Wisconsin	213	226	-5.4%	88	83	71	96	NM	NM	51	45
West North Central	3,802	2,980	27.6%	1,207	868	2,529	2,046	13	12	52	54
Iowa	1,008	822	22.7%	628	454	370	357	NM	3	7	7
Kansas	1,082	744	45.5%	63	61	1,019	683	0	0	NM	0
Minnesota	713	621	14.7%	174	123	491	449	NM	NM	44	47
Missouri	76	55	36.6%	4	4	65	46	7	5	NM	NM
Nebraska	223	175	27.5%	19	18	202	156	NM	NM	0	0
North Dakota	498	405	22.9%	254	169	244	236	0	0	NM	0
South Dakota	203	157	28.7%	64	39	139	119	0	0	0	0
South Atlantic	2,260	2,071	9.1%	220	246	1,115	877	46	45	878	904
Delaware	14	14	5.9%	NM	NM	12	11	NM	NM	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	389	491	-20.7%	21	58	204	251	NM	2	161	180
Georgia	468	405	15.4%	8	NM	128	70	NM	3	332	332
Maryland	96	82	16.5%	NM	NM	82	68	NM	NM	10	10
North Carolina	632	398	58.7%	21	NM	494	275	21	16	96	106
South Carolina	206	211	-2.1%	37	40	29	33	0	0	140	138
Virginia	385	406	-5.1%	131	145	97	104	19	21	138	136
West Virginia	69	65	6.0%	0	0	69	65	0	0	0	0
East South Central	570	584	-2.4%	11	8	45	45	NM	NM	514	531
Alabama	291	302	-3.8%	NM	NM	23	24	0	0	267	278
Kentucky	41	39	4.7%	10	8	NM	NM	0	0	31	31
Mississippi	132	135	-2.5%	0	0	NM	1	0	0	131	134
Tennessee	106	107	-1.1%	0	0	20	20	NM	NM	85	87
West South Central	8,002	5,802	37.9%	165	162	7,397	5,165	NM	NM	433	468
Arkansas	117	130	-10.2%	0	0	12	7	NM	NM	104	122
Louisiana	229	245	-6.7%	0	0	8	8	0	0	221	237
Oklahoma	1,753	1,158	51.4%	128	117	1,600	1,014	0	0	26	27
Texas	5,904	4,269	38.3%	37	45	5,778	4,136	NM	NM	82	82
Mountain	2,958	2,227	32.9%	258	224	2,667	1,954	15	15	18	34
Arizona	482	409	17.9%	61	54	419	352	NM	3	0	0
Colorado	700	488	43.5%	7	8	689	477	NM	NM	NM	NM
Idaho	233	213	9.4%	NM	10	216	171	0	0	16	32
Montana	125	131	-4.7%	14	13	110	117	0	0	NM	NM
Nevada	596	475	25.6%	NM	0	583	465	9	10	NM	NM
New Mexico	373	186	100.3%	29	16	343	170	NM	NM	0	0
Utah	184	118	55.8%	20	23	164	95	0	0	0	0
Wyoming	264	206	28.3%	122	99	141	107	0	0	0	0
Pacific Contiguous	7,343	6,619	10.9%	868	879	6,174	5,407	91	96	210	236
California	5,520	4,744	16.4%	265	264	5,108	4,325	88	93	60	62
Oregon	913	929	-1.7%	182	177	696	699	NM	2	33	51
Washington	910	946	-3.8%	421	438	371	383	NM	NM	117	123
Pacific Noncontiguous	133	121	10.0%	14	17	88	75	23	22	8	7
Alaska	14	15	-4.8%	NM	NM	NM	NM	NM	5	NM	NM
Hawaii	119	106	12.1%	8	9	85	72	18	18	8	7
U.S. Total	28,511	23,721	20.2%	3,076	2,698	22,728	18,157	291	305	2,415	2,561

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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 July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	6,259	6,136	2.0%	524	521	4,974	4,670	99	119	661	825
Connecticut	525	466	12.5%	NM	0	523	458	0	9	0	0
Maine	2,624	2,562	2.4%	0	0	1,914	1,677	50	62	659	824
Massachusetts	1,273	1,237	2.9%	47	46	1,200	1,170	24	20	NM	NM
New Hampshire	1,199	1,221	-1.8%	170	185	1,010	1,013	19	23	0	0
Rhode Island	140	147	-4.9%	0	0	135	143	NM	NM	0	0
Vermont	499	503	-0.8%	305	291	193	210	NM	NM	0	0
Middle Atlantic	8,382	8,417	-0.4%	71	58	7,405	7,450	404	432	503	477
New Jersey	1,121	1,057	6.1%	71	58	844	795	206	203	NM	NM
New York	3,784	3,832	-1.3%	0	0	3,507	3,560	122	136	155	136
Pennsylvania	3,477	3,528	-1.4%	0	0	3,054	3,095	76	93	347	340
East North Central	17,270	16,303	5.9%	2,086	2,065	14,106	13,095	124	147	954	997
Illinois	6,744	6,180	9.1%	11	8	6,731	6,169	NM	NM	0	0
Indiana	3,442	2,840	21.2%	203	179	3,192	2,611	11	12	35	38
Michigan	4,055	4,209	-3.7%	1,093	1,118	2,490	2,576	79	115	392	401
Ohio	1,244	1,202	3.5%	17	20	1,037	972	NM	NM	185	207
Wisconsin	1,785	1,872	-4.6%	761	740	655	767	27	15	341	351
West North Central	35,926	30,606	17.4%	12,107	9,789	23,407	20,381	88	74	324	361
Iowa	11,600	10,126	14.6%	7,265	5,897	4,272	4,157	20	19	43	53
Kansas	8,294	6,103	35.9%	527	501	7,762	5,600	0	0	5	NM
Minnesota	7,025	6,650	5.6%	1,606	1,321	5,125	5,003	30	26	264	300
Missouri	749	643	16.4%	27	27	690	594	29	21	NM	NM
Nebraska	2,099	1,834	14.5%	161	156	1,928	1,668	10	9	0	0
North Dakota	4,395	3,832	14.7%	1,963	1,493	2,423	2,336	0	0	10	NM
South Dakota	1,765	1,418	24.4%	558	394	1,206	1,024	0	0	0	0
South Atlantic	14,455	13,311	8.6%	1,442	1,193	7,011	6,015	295	287	5,707	5,816
Delaware	85	84	0.6%	5	5	68	66	NM	NM	8	10
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,653	3,006	-11.7%	270	201	1,266	1,642	21	17	1,097	1,146
Georgia	2,883	2,632	9.5%	46	8	724	446	6	18	2,107	2,159
Maryland	729	651	12.0%	7	6	639	554	20	18	63	72
North Carolina	3,579	2,374	50.8%	125	5	2,715	1,591	120	98	620	680
South Carolina	1,341	1,328	1.0%	247	255	185	208	0	0	909	866
Virginia	2,363	2,376	-0.6%	743	713	593	649	124	131	903	883
West Virginia	823	859	-4.3%	0	0	823	859	0	0	0	0
East South Central	3,761	3,754	0.2%	62	52	299	290	NM	NM	3,399	3,408
Alabama	1,925	1,935	-0.5%	NM	NM	153	143	0	0	1,767	1,790
Kentucky	271	281	-3.4%	56	51	3	3	0	0	212	226
Mississippi	878	843	4.2%	0	0	7	7	0	0	871	836
Tennessee	688	695	-1.1%	0	0	135	137	NM	NM	550	556
West South Central	49,813	36,427	36.7%	988	1,096	45,820	32,226	48	43	2,957	3,062
Arkansas	822	887	-7.4%	0	0	86	58	NM	3	733	826
Louisiana	1,559	1,578	-1.2%	0	0	52	51	0	0	1,507	1,528
Oklahoma	11,415	7,857	45.3%	812	842	10,430	6,838	0	0	174	177
Texas	36,017	26,105	38.0%	176	254	35,252	25,280	46	41	542	531
Mountain	21,865	17,318	26.3%	2,107	1,797	19,438	15,221	81	72	238	229
Arizona	2,826	2,501	13.0%	336	332	2,475	2,154	15	15	0	0
Colorado	5,852	4,496	30.2%	60	80	5,774	4,400	15	13	NM	NM
Idaho	1,993	1,767	12.8%	78	82	1,688	1,466	0	0	227	218
Montana	1,261	1,131	11.4%	133	125	1,121	999	0	0	7	7
Nevada	3,749	3,179	18.0%	22	0	3,677	3,135	49	42	NM	NM
New Mexico	2,607	1,471	77.3%	155	92	2,450	1,377	NM	NM	0	0
Utah	1,048	700	49.6%	147	147	901	554	0	0	0	0
Wyoming	2,528	2,074	21.9%	1,177	938	1,352	1,136	0	0	0	0
Pacific Contiguous	41,842	37,604	11.3%	5,134	4,486	34,717	30,997	608	652	1,383	1,469
California	30,632	27,985	9.5%	1,359	1,420	28,292	25,541	586	629	394	396
Oregon	5,229	4,622	13.1%	894	778	4,078	3,493	11	13	246	338
Washington	5,981	4,997	19.7%	2,881	2,289	2,348	1,963	10	10	743	735
Pacific Noncontiguous	855	819	4.3%	120	102	525	517	143	143	67	58
Alaska	131	124	5.3%	65	61	31	29	30	31	5	NM
Hawaii	724	695	4.2%	55	41	494	488	114	112	62	55
U.S. Total	200,429	170,696	17.4%	24,641	21,160	157,702	130,863	1,893	1,971	16,192	16,702

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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, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	-48	-51	-7.0%	0	0	-48	-51	0	0	0	0
Connecticut	1	1	18.0%	0	0	1	1	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-49	-52	-6.7%	0	0	-49	-52	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	-125	-103	21.7%	-67	-54	-58	-49	0	0	0	0
New Jersey	-27	-20	34.4%	-27	-20	0	0	0	0	0	0
New York	-40	-33	19.2%	-40	-33	0	0	0	0	0	0
Pennsylvania	-58	-49	18.1%	0	0	-58	-49	0	0	0	0
East North Central	-110	-70	58.0%	-110	-70	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	-110	-70	58.0%	-110	-70	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	-24	84	-128.1%	-24	84	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	-24	84	-128.1%	-24	84	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	-440	-359	22.4%	-440	-359	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	-132	-109	21.6%	-132	-109	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	-139	-92	50.8%	-139	-92	0	0	0	0	0	0
Virginia	-168	-158	6.4%	-168	-158	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-72	-86	-15.8%	-72	-86	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	-72	-86	-15.8%	-72	-86	0	0	0	0	0	0
West South Central	-9	-7	23.1%	-9	-7	0	0	0	0	0	0
Arkansas	1	5	-79.9%	1	5	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-10	-12	-21.1%	-10	-12	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-3	-1	114.1%	-3	-1	0	0	0	0	0	0
Arizona	24	25	-4.7%	24	25	0	0	0	0	0	0
Colorado	-27	-26	1.0%	-27	-26	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	46	80	-42.3%	46	80	0	0	0	0	0	0
California	47	81	-42.2%	47	81	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	-17.7%	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	-784	-513	52.7%	-678	-413	-106	-101	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 July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	-287	-280	2.4%	0	0	-287	-280	0	0	0	0
Connecticut	1	-5	-125.9%	0	0	1	-5	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-288	-275	4.8%	0	0	-288	-275	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	-652	-657	-0.7%	-362	-346	-291	-312	0	0	0	0
New Jersey	-117	-109	8.0%	-117	-109	0	0	0	0	0	0
New York	-244	-237	3.1%	-244	-237	0	0	0	0	0	0
Pennsylvania	-291	-312	-6.7%	0	0	-291	-312	0	0	0	0
East North Central	-410	-252	63.1%	-410	-252	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	-410	-252	63.1%	-410	-252	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	195	246	-20.9%	195	246	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	195	246	-20.9%	195	246	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	-1,530	-1,632	-6.2%	-1,530	-1,632	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	-292	-490	-40.4%	-292	-490	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	-579	-542	6.8%	-579	-542	0	0	0	0	0	0
Virginia	-659	-600	9.9%	-659	-600	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-380	-291	30.8%	-380	-291	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	-380	-291	30.8%	-380	-291	0	0	0	0	0	0
West South Central	-9	-13	-30.7%	-9	-13	0	0	0	0	0	0
Arkansas	31	24	28.7%	31	24	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-40	-37	8.3%	-40	-37	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-123	-127	-3.3%	-123	-127	0	0	0	0	0	0
Arizona	56	42	33.7%	56	42	0	0	0	0	0	0
Colorado	-179	-169	5.9%	-179	-169	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	54	91	-40.5%	54	91	0	0	0	0	0	0
California	57	64	-10.2%	57	64	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-3	27	-112.0%	-3	27	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-3,143	-2,914	7.8%	-2,565	-2,323	-578	-592	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, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	165	163	1.3%	0	0	147	144	8	8	10	11
Connecticut	52	50	3.5%	0	0	52	50	0	0	0	0
Maine	33	34	-0.4%	0	0	15	15	8	8	10	11
Massachusetts	75	75	0.4%	0	0	75	75	0	0	0	0
New Hampshire	5	5	2.7%	0	0	5	5	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	199	217	-8.4%	0	0	168	176	31	41	0	0
New Jersey	45	47	-5.9%	0	0	33	35	12	13	0	0
New York	80	85	-6.1%	0	0	61	65	19	20	0	0
Pennsylvania	75	85	-12.2%	0	0	75	76	0	9	0	0
East North Central	100	108	-7.1%	1	5	13	14	17	22	69	67
Illinois	24	25	-2.2%	0	0	0	0	0	0	24	25
Indiana	39	36	6.8%	0	0	0	0	NM	NM	37	34
Michigan	30	37	-19.5%	0	NM	13	13	15	20	1	2
Ohio	1	NM	NM	0	0	0	NM	0	0	1	1
Wisconsin	7	9	-21.7%	1	3	0	0	0	0	6	NM
West North Central	39	45	-13.3%	18	24	12	12	NM	NM	6	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	36	38	-5.8%	15	17	12	12	NM	NM	5	NM
Missouri	1	4	-86.7%	1	4	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	3	3	-0.8%	3	3	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	393	398	-1.1%	0	23	213	198	18	19	162	158
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	284	281	1.0%	0	23	133	116	0	0	151	142
Georgia	7	12	-43.6%	0	0	0	0	0	0	7	12
Maryland	30	29	5.0%	0	0	30	28	0	NM	0	0
North Carolina	30	32	-3.5%	0	0	30	32	0	0	0	0
South Carolina	5	4	3.0%	0	0	NM	NM	0	0	4	4
Virginia	37	39	-6.0%	0	0	19	21	18	18	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	5	5	-4.7%	3	3	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	3	3	15.4%	3	3	0	0	0	0	0	0
Mississippi	NM	NM	NM	0	0	0	0	0	0	NM	NM
Tennessee	2	2	-24.1%	0	0	0	0	0	0	2	2
West South Central	111	121	-8.4%	0	0	4	NM	0	0	106	119
Arkansas	0	1	-91.5%	0	0	0	0	0	0	0	1
Louisiana	34	43	-21.4%	0	0	0	0	0	0	34	43
Oklahoma	5	NM	NM	0	0	3	0	0	0	NM	NM
Texas	72	75	-3.6%	0	0	NM	NM	0	0	70	73
Mountain	46	45	2.9%	NM	NM	27	28	0	0	18	16
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	27	-3.4%	0	0	26	27	0	0	0	0
Nevada	NM	NM	NM	NM	NM	0	0	0	0	0	0
New Mexico	0	NM	NM	0	NM	0	0	0	0	0	0
Utah	15	12	23.6%	0	0	NM	NM	0	0	15	12
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	90	98	-8.0%	0	NM	27	30	0	0	63	68
California	79	83	-4.2%	0	NM	16	20	0	0	63	63
Oregon	4	4	2.2%	0	0	4	4	0	0	0	0
Washington	6	11	-41.0%	0	0	6	6	0	0	0	4
Pacific Noncontiguous	19	18	6.2%	0	0	1	1	18	17	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	19	18	6.2%	0	0	1	1	18	17	0	0
U.S. Total	1,167	1,217	-4.1%	23	56	612	604	96	110	437	447

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

by State, by Sector, Year-to-Date through July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	1,107	1,081	2.4%	0	0	986	936	52	61	69	85
Connecticut	348	328	6.0%	0	0	348	321	0	7	0	0
Maine	224	224	0.1%	0	0	103	86	52	53	69	85
Massachusetts	504	499	1.0%	0	0	504	499	0	0	0	0
New Hampshire	31	30	4.0%	0	0	31	30	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	1,364	1,367	-0.2%	0	0	1,118	1,100	246	267	0	0
New Jersey	312	292	6.9%	0	0	230	208	82	84	0	0
New York	517	537	-3.6%	0	0	394	414	123	123	0	0
Pennsylvania	534	538	-0.7%	0	0	494	478	41	60	0	0
East North Central	628	669	-6.2%	18	32	93	99	89	119	428	419
Illinois	157	155	1.0%	0	0	1	0	0	0	156	155
Indiana	230	228	0.7%	0	0	0	0	11	11	219	218
Michigan	183	225	-18.7%	7	16	86	90	79	108	12	12
Ohio	12	14	-9.3%	0	0	6	9	0	0	7	4
Wisconsin	45	47	-3.3%	11	17	0	0	0	0	35	30
West North Central	270	286	-5.7%	130	150	83	81	21	20	36	35
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	NM	NM	NM	0	0	0	0	0	0	NM	NM
Minnesota	243	234	3.9%	105	100	83	81	21	20	34	33
Missouri	7	34	-78.0%	7	34	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	17	17	1.8%	17	17	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	2,605	2,429	7.3%	108	23	1,307	1,294	118	118	1,073	994
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	1,864	1,719	8.4%	108	23	777	765	0	0	979	932
Georgia	72	34	113.0%	0	0	0	0	0	0	72	34
Maryland	187	179	4.6%	0	0	187	179	NM	NM	0	0
North Carolina	202	197	2.2%	0	0	202	197	0	0	0	0
South Carolina	26	32	-19.6%	0	0	NM	NM	0	0	22	28
Virginia	255	267	-4.7%	0	0	137	150	118	117	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	47	39	19.4%	33	24	0	0	0	0	13	14
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	33	24	36.2%	33	24	0	0	0	0	0	0
Mississippi	NM	NM	NM	0	0	0	0	0	0	NM	NM
Tennessee	11	12	-9.2%	0	0	0	0	0	0	11	12
West South Central	682	684	-0.2%	0	0	23	9	0	0	659	675
Arkansas	3	8	-61.5%	0	0	0	0	0	0	3	8
Louisiana	219	234	-6.4%	0	0	0	0	0	0	219	234
Oklahoma	25	10	155.0%	0	0	13	0	0	0	12	10
Texas	435	432	0.7%	0	0	10	9	0	0	425	423
Mountain	331	239	38.3%	9	10	203	182	0	0	119	47
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	24	25	-4.1%	0	0	NM	NM	0	0	22	22
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	199	178	12.2%	0	0	199	178	0	0	0	0
Nevada	8	9	-10.3%	8	9	0	0	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	99	27	266.4%	0	0	NM	NM	0	0	97	25
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	556	609	-8.7%	NM	NM	172	187	0	0	384	421
California	475	504	-5.8%	NM	NM	102	120	0	0	373	384
Oregon	27	26	3.7%	0	0	27	26	0	0	0	0
Washington	54	79	-31.0%	0	0	42	41	0	0	12	37
Pacific Noncontiguous	116	112	3.6%	NM	NM	7	3	109	107	0	0
Alaska	NM	NM	NM	NM	NM	0	0	0	0	0	0
Hawaii	116	110	4.8%	0	0	7	3	109	107	0	0
U.S. Total	7,705	7,516	2.5%	299	242	3,991	3,892	635	691	2,781	2,691

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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, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	166	118	39.9%	17	17	146	99	NM	NM	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	104	62	68.5%	0	0	104	62	0	0	0	0
Massachusetts	14	13	9.1%	NM	NM	8	7	NM	NM	NM	NM
New Hampshire	28	23	22.5%	0	0	28	23	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	NM	NM	0	0
Vermont	20	20	-4.6%	13	13	6	7	0	0	0	0
Middle Atlantic	378	322	17.1%	0	0	377	322	0	0	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	219	185	18.6%	0	0	219	185	0	0	NM	NM
Pennsylvania	157	136	15.3%	0	0	157	136	0	0	0	0
East North Central	970	929	4.5%	171	145	795	781	NM	NM	NM	NM
Illinois	401	401	0.0%	NM	NM	400	400	NM	NM	0	0
Indiana	164	176	-6.5%	0	0	164	176	NM	NM	0	0
Michigan	271	227	19.3%	117	95	154	133	0	0	0	0
Ohio	50	48	4.8%	NM	NM	46	45	NM	0	NM	NM
Wisconsin	83	76	9.0%	53	48	30	28	0	0	NM	NM
West North Central	3,594	2,769	29.8%	1,159	821	2,433	1,946	NM	NM	0	0
Iowa	986	799	23.5%	626	452	360	347	NM	NM	0	0
Kansas	1,076	738	45.8%	63	61	1,013	677	0	0	0	0
Minnesota	558	459	21.6%	139	86	417	371	NM	NM	0	0
Missouri	60	41	45.6%	0	0	60	41	0	0	0	0
Nebraska	214	170	25.9%	12	14	201	156	0	0	0	0
North Dakota	498	405	22.9%	254	169	244	236	0	0	0	0
South Dakota	203	157	28.7%	64	39	139	119	0	0	0	0
South Atlantic	94	84	12.4%	0	0	94	84	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	25	19	34.6%	0	0	25	19	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	69	65	6.1%	0	0	69	65	0	0	0	0
East South Central	2	2	-13.5%	0	0	2	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	2	2	-13.5%	0	0	2	2	0	0	0	0
West South Central	7,400	5,198	42.4%	156	145	7,241	5,051	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	1,725	1,130	52.7%	127	117	1,598	1,012	0	0	0	0
Texas	5,675	4,068	39.5%	29	27	5,643	4,038	NM	NM	0	0
Mountain	1,664	1,183	40.7%	144	130	1,518	1,051	NM	NM	NM	NM
Arizona	46	32	43.6%	0	0	46	32	0	0	0	0
Colorado	635	449	41.6%	7	8	627	440	NM	NM	NM	NM
Idaho	189	153	23.9%	0	10	189	143	0	0	0	0
Montana	124	130	-4.6%	14	13	110	117	0	0	0	0
Nevada	31	27	14.4%	0	0	31	27	0	0	0	0
New Mexico	289	118	145.4%	0	0	288	117	NM	NM	0	0
Utah	85	68	24.7%	0	0	85	68	0	0	0	0
Wyoming	264	206	28.3%	122	99	141	107	0	0	0	0
Pacific Contiguous	3,252	3,021	7.7%	664	690	2,587	2,330	NM	NM	NM	NM
California	1,700	1,433	18.6%	114	119	1,585	1,313	NM	NM	NM	NM
Oregon	818	816	0.2%	174	171	644	645	0	0	0	0
Washington	735	771	-4.7%	376	400	359	372	0	0	0	0
Pacific Noncontiguous	69	60	14.5%	NM	NM	63	53	0	0	0	0
Alaska	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Hawaii	59	50	19.0%	0	0	59	50	0	0	0	0
U.S. Total	17,589	13,686	28.5%	2,318	1,954	15,256	11,719	11	NM	NM	NM

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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.B. Utility Scale Facility Net Generation from Wind

by State, by Sector, Year-to-Date through July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	1,499	1,311	14.4%	150	164	1,324	1,125	23	20	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	914	715	27.9%	0	0	914	715	0	0	0	0
Massachusetts	130	126	3.0%	35	34	75	75	18	16	NM	NM
New Hampshire	267	259	3.1%	0	0	267	259	0	0	0	0
Rhode Island	8	8	-4.7%	0	0	NM	NM	NM	NM	0	0
Vermont	180	202	-11.0%	115	130	65	73	0	0	0	0
Middle Atlantic	4,289	4,415	-2.8%	0	0	4,287	4,413	0	0	NM	NM
New Jersey	14	13	6.4%	0	0	14	13	0	0	0	0
New York	2,293	2,369	-3.2%	0	0	2,291	2,367	0	0	NM	NM
Pennsylvania	1,983	2,033	-2.5%	0	0	1,983	2,033	0	0	0	0
East North Central	13,678	12,622	8.4%	1,664	1,722	11,971	10,874	NM	NM	37	23
Illinois	6,384	5,811	9.8%	8	8	6,373	5,801	NM	NM	0	0
Indiana	3,036	2,487	22.1%	0	0	3,036	2,486	NM	NM	0	0
Michigan	2,623	2,713	-3.3%	1,085	1,117	1,538	1,596	0	0	0	0
Ohio	755	686	10.1%	9	8	711	659	NM	0	32	19
Wisconsin	879	925	-5.0%	561	589	314	332	0	0	NM	NM
West North Central	34,583	29,262	18.2%	11,789	9,501	22,775	19,742	19	18	0	0
Iowa	11,455	9,973	14.9%	7,251	5,882	4,202	4,089	NM	NM	0	0
Kansas	8,250	6,063	36.1%	527	501	7,723	5,562	0	0	0	0
Minnesota	6,025	5,613	7.3%	1,376	1,101	4,631	4,495	17	16	0	0
Missouri	662	569	16.4%	0	0	662	569	0	0	0	0
Nebraska	2,040	1,798	13.5%	114	130	1,926	1,668	0	0	0	0
North Dakota	4,386	3,828	14.6%	1,963	1,493	2,423	2,336	0	0	0	0
South Dakota	1,765	1,418	24.4%	558	394	1,206	1,024	0	0	0	0
South Atlantic	1,122	1,111	1.0%	0	0	1,119	1,108	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	299	252	18.8%	0	0	299	252	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	820	857	-4.3%	0	0	820	857	0	0	0	0
East South Central	25	26	-5.8%	0	0	25	26	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	25	26	-5.8%	0	0	25	26	0	0	0	0
West South Central	45,869	32,532	41.0%	971	1,002	44,876	31,511	22	19	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	11,229	7,671	46.4%	808	842	10,420	6,829	0	0	0	0
Texas	34,640	24,861	39.3%	163	160	34,455	24,682	22	19	0	0
Mountain	13,936	10,653	30.8%	1,443	1,221	12,485	9,426	NM	NM	NM	NM
Arizona	330	244	35.4%	0	0	330	244	0	0	0	0
Colorado	5,491	4,250	29.2%	60	80	5,424	4,165	NM	NM	NM	NM
Idaho	1,584	1,367	15.9%	73	77	1,511	1,290	0	0	0	0
Montana	1,253	1,124	11.5%	133	125	1,121	999	0	0	0	0
Nevada	188	176	6.6%	0	0	188	176	0	0	0	0
New Mexico	2,128	1,057	101.3%	0	0	2,126	1,055	NM	NM	0	0
Utah	433	361	20.0%	0	0	433	361	0	0	0	0
Wyoming	2,528	2,074	21.9%	1,177	938	1,352	1,136	0	0	0	0
Pacific Contiguous	18,375	15,460	18.9%	3,901	3,273	14,467	12,180	NM	NM	NM	NM
California	8,926	7,666	16.4%	430	486	8,489	7,174	NM	NM	NM	NM
Oregon	4,550	3,856	18.0%	841	735	3,708	3,121	0	0	0	0
Washington	4,899	3,938	24.4%	2,630	2,052	2,269	1,886	0	0	0	0
Pacific Noncontiguous	433	427	1.5%	65	61	368	365	0	0	0	0
Alaska	96	90	5.9%	65	61	31	29	0	0	0	0
Hawaii	337	336	0.3%	0	0	337	336	0	0	0	0
U.S. Total	133,810	107,818	24.1%	19,983	16,944	113,697	90,772	82	71	48	32

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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, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	628	667	-5.8%	57	56	470	484	11	14	89	113
Connecticut	75	70	7.4%	0	0	75	70	0	0	0	0
Maine	243	270	-10.0%	0	0	146	147	8	10	89	113
Massachusetts	102	104	-1.7%	0	0	102	104	NM	0	0	0
New Hampshire	150	163	-7.8%	31	30	116	128	NM	4	0	0
Rhode Island	18	19	-6.7%	0	0	18	19	0	0	0	0
Vermont	40	41	-2.3%	27	25	NM	NM	NM	NM	0	0
Middle Atlantic	499	531	-6.1%	0	0	392	411	36	48	71	72
New Jersey	83	87	-4.9%	0	0	69	72	14	15	0	0
New York	206	224	-8.2%	0	0	170	180	18	21	18	22
Pennsylvania	210	220	-4.5%	0	0	153	158	NM	12	53	50
East North Central	507	534	-5.1%	62	62	288	310	20	25	136	136
Illinois	48	48	-0.6%	0	0	48	48	0	0	0	0
Indiana	34	35	-3.3%	27	27	NM	NM	NM	2	NM	6
Michigan	231	231	-0.1%	0	NM	157	151	16	21	59	59
Ohio	65	71	-8.6%	0	NM	43	43	0	0	22	27
Wisconsin	130	149	-12.9%	35	35	41	68	NM	NM	51	44
West North Central	202	208	-2.7%	47	47	91	96	11	10	52	54
Iowa	22	23	-5.1%	2	2	10	10	NM	2	7	7
Kansas	6	6	2.4%	0	0	6	6	0	0	NM	0
Minnesota	154	162	-5.3%	35	36	73	78	NM	NM	44	47
Missouri	12	12	5.5%	4	4	2	2	6	5	NM	NM
Nebraska	8	5	56.8%	7	4	0	0	NM	NM	0	0
North Dakota	NM	0	--	0	0	0	0	0	0	NM	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,603	1,740	-7.8%	173	218	523	583	30	34	878	904
Delaware	6	7	-6.2%	0	0	5	5	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	362	460	-21.3%	5	34	193	244	NM	NM	161	180
Georgia	392	391	0.3%	0	0	60	57	0	2	332	332
Maryland	50	49	1.7%	0	0	38	37	NM	NM	10	10
North Carolina	202	216	-6.6%	0	0	100	103	NM	7	96	106
South Carolina	206	210	-2.1%	37	40	28	32	0	0	140	138
Virginia	384	406	-5.2%	130	145	97	104	19	21	138	136
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	554	572	-3.0%	9	8	32	32	0	0	514	531
Alabama	291	302	-3.8%	NM	NM	23	24	0	0	267	278
Kentucky	39	39	-0.3%	8	8	NM	NM	0	0	31	31
Mississippi	132	135	-2.5%	0	0	NM	1	0	0	131	134
Tennessee	92	94	-2.2%	0	0	7	7	0	0	85	87
West South Central	523	557	-6.1%	9	18	78	68	NM	3	433	468
Arkansas	113	130	-12.6%	0	0	9	7	NM	NM	104	122
Louisiana	229	245	-6.7%	0	0	8	8	0	0	221	237
Oklahoma	27	28	-2.7%	0	0	NM	1	0	0	26	27
Texas	153	154	-0.3%	9	18	60	51	NM	2	82	82
Mountain	78	96	-19.0%	NM	3	60	60	0	0	17	33
Arizona	21	22	-5.0%	0	2	21	20	0	0	0	0
Colorado	NM	11	NM	0	0	NM	11	0	0	0	0
Idaho	36	52	-31.1%	NM	NM	19	19	0	0	16	32
Montana	NM	NM	NM	0	0	0	0	0	0	NM	NM
Nevada	2	2	1.4%	0	0	2	2	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	6	6	-0.3%	0	0	6	6	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	806	906	-11.0%	69	60	455	529	75	82	208	235
California	553	632	-12.5%	18	16	405	477	72	78	58	61
Oregon	78	99	-21.5%	6	6	38	41	NM	2	33	51
Washington	175	175	0.3%	45	38	12	12	NM	NM	117	123
Pacific Noncontiguous	32	35	-8.9%	1	6	0	0	23	22	8	7
Alaska	NM	5	NM	0	0	0	0	NM	5	NM	NM
Hawaii	28	31	-10.1%	1	6	0	0	18	18	8	7
U.S. Total	5,433	5,845	-7.1%	428	479	2,389	2,574	209	239	2,406	2,554

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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 July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	4,236	4,347	-2.6%	360	346	3,146	3,082	71	95	659	824
Connecticut	509	453	12.4%	0	0	509	444	0	9	0	0
Maine	1,710	1,847	-7.5%	0	0	1,000	962	50	62	659	824
Massachusetts	688	694	-0.9%	0	0	687	694	NM	NM	0	0
New Hampshire	932	962	-3.1%	170	185	743	754	19	23	0	0
Rhode Island	122	131	-6.7%	0	0	122	131	0	0	0	0
Vermont	275	260	6.0%	190	161	84	97	NM	NM	0	0
Middle Atlantic	3,414	3,399	0.4%	0	0	2,629	2,608	293	323	492	468
New Jersey	574	552	3.9%	0	0	473	452	101	100	0	0
New York	1,398	1,403	-0.3%	0	0	1,126	1,134	120	134	152	134
Pennsylvania	1,442	1,444	-0.1%	0	0	1,029	1,021	72	89	340	333
East North Central	3,310	3,469	-4.6%	379	329	1,901	2,026	116	142	914	971
Illinois	320	330	-3.0%	0	0	320	330	0	0	0	0
Indiana	226	227	-0.3%	178	174	4	3	10	11	35	38
Michigan	1,423	1,496	-4.8%	NM	NM	952	980	79	115	392	401
Ohio	436	471	-7.4%	NM	5	285	280	0	0	150	186
Wisconsin	904	945	-4.3%	200	150	340	433	27	15	337	347
West North Central	1,318	1,329	-0.8%	318	289	608	623	68	56	324	361
Iowa	145	153	-5.5%	15	15	69	68	18	17	43	53
Kansas	42	39	9.4%	0	0	37	37	0	0	5	NM
Minnesota	995	1,035	-3.9%	229	220	488	506	13	9	264	300
Missouri	70	62	12.1%	27	27	13	13	27	21	NM	NM
Nebraska	57	36	59.4%	47	27	0	0	10	9	0	0
North Dakota	10	NM	NM	0	0	0	0	0	0	10	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	10,362	10,831	-4.3%	1,151	1,054	3,301	3,738	204	222	5,707	5,816
Delaware	43	44	-2.5%	0	0	35	34	0	0	8	10
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,493	2,849	-12.5%	164	86	1,212	1,601	19	16	1,097	1,146
Georgia	2,486	2,545	-2.3%	0	0	375	370	3	16	2,107	2,159
Maryland	323	321	0.8%	0	0	243	234	17	15	63	72
North Carolina	1,318	1,368	-3.6%	0	0	658	643	40	45	620	680
South Carolina	1,338	1,325	0.9%	247	255	182	204	0	0	909	866
Virginia	2,359	2,376	-0.7%	739	713	593	649	124	131	903	883
West Virginia	NM	3	NM	0	0	NM	3	0	0	0	0
East South Central	3,669	3,663	0.2%	57	52	212	202	0	0	3,399	3,408
Alabama	1,925	1,935	-0.5%	NM	NM	153	143	0	0	1,767	1,790
Kentucky	267	281	-4.9%	52	51	3	3	0	0	212	226
Mississippi	878	843	4.2%	0	0	7	7	0	0	871	836
Tennessee	599	604	-0.8%	0	0	49	48	0	0	550	556
West South Central	3,513	3,661	-4.0%	13	94	519	483	24	23	2,957	3,062
Arkansas	804	887	-9.3%	0	0	69	58	NM	3	733	826
Louisiana	1,559	1,578	-1.2%	0	0	52	51	0	0	1,507	1,528
Oklahoma	183	186	-1.6%	0	0	9	9	0	0	174	177
Texas	967	1,010	-4.3%	13	94	389	365	22	20	542	531
Mountain	625	623	0.4%	7	16	384	381	0	0	234	225
Arizona	125	135	-7.7%	NM	11	123	124	0	0	0	0
Colorado	78	76	2.7%	0	0	78	76	0	0	0	0
Idaho	352	342	3.0%	5	5	120	119	0	0	227	218
Montana	7	7	1.4%	0	0	0	0	0	0	7	7
Nevada	14	14	2.4%	0	0	14	14	0	0	0	0
New Mexico	7	8	-7.6%	0	0	7	8	0	0	0	0
Utah	42	41	1.9%	0	0	42	41	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,218	5,704	-8.5%	407	391	2,919	3,285	521	569	1,372	1,459
California	3,600	4,001	-10.0%	119	117	2,599	2,952	499	546	383	386
Oregon	537	645	-16.7%	38	38	241	256	11	13	246	338
Washington	1,082	1,058	2.2%	250	236	78	77	10	10	743	735
Pacific Noncontiguous	230	223	3.2%	20	23	0	0	143	143	67	58
Alaska	35	34	3.8%	0	0	0	0	30	31	5	NM
Hawaii	195	190	3.1%	20	23	0	0	114	112	62	55
U.S. Total	35,896	37,248	-3.6%	2,711	2,595	15,618	16,428	1,440	1,573	16,126	16,652

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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, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 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	333	329	1.0%	20	23	313	306	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	8	8	-2.4%	0	0	8	8	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	281	279	0.9%	0	0	281	279	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	42	41	1.8%	20	23	22	18	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,073	1,088	-1.4%	71	70	1,003	1,018	0	0	0	0
California	1,062	1,078	-1.5%	69	70	993	1,008	0	0	0	0
Oregon	11	10	10.4%	NM	0	10	10	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	19	18	4.1%	0	0	19	18	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	19	18	4.1%	0	0	19	18	0	0	0	0
U.S. Total	1,425	1,436	-0.8%	91	93	1,334	1,343	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 July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 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	2,462	2,324	5.9%	147	147	2,315	2,177	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	57	58	-1.5%	0	0	57	58	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	2,081	1,967	5.8%	0	0	2,081	1,967	0	0	0	0
New Mexico	NM	8	NM	0	0	NM	8	0	0	0	0
Utah	317	292	8.6%	147	147	170	145	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	7,161	7,447	-3.8%	475	477	6,686	6,970	0	0	0	0
California	7,049	7,346	-4.0%	465	477	6,584	6,869	0	0	0	0
Oregon	112	101	11.0%	NM	0	102	101	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	130	127	2.5%	0	0	130	127	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	130	127	2.5%	0	0	130	127	0	0	0	0
U.S. Total	9,753	9,898	-1.5%	621	623	9,132	9,274	0	0	0	0

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

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	261	189	38.0%	100	81	160	108	NM	NM	96	79	NM	NM	NM	NM	85	69	8	4	0	0	8	4	68	35
Connecticut	NM	22	NM	NM	NM	30	19	NM	0	NM	NM	12	9	0	0	12	9	1	1	0	0	1	1	16	9
Maine	3	2	57.9%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Massachusetts	198	148	34.4%	86	71	112	77	NM	NM	83	68	NM	NM	NM	NM	66	55	6	3	0	0	6	3	40	19
New Hampshire	5	2	122.2%	0	0	5	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	4	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	18	13	38.6%	9	7	9	6	0	0	9	7	3	2	0	0	3	2	0	0	0	0	0	0	6	4
Middle Atlantic	398	302	31.6%	141	100	256	202	14	10	103	71	158	141	23	18	135	123	NM	NM	NM	NM	14	14	107	66
New Jersey	254	206	23.5%	109	81	145	124	14	10	73	55	114	106	22	17	93	89	NM	NM	NM	NM	8	7	45	29
New York	106	65	63.9%	22	10	84	54	0	0	21	10	NM	NM	NM	NM	31	24	1	1	0	0	1	1	52	29
Pennsylvania	38	32	18.1%	11	8	27	24	0	0	9	7	NM	NM	NM	NM	11	10	NM	NM	NM	NM	5	5	10	9
East North Central	79	57	37.9%	54	36	25	22	8	NM	45	32	NM	NM	NM	NM	17	16	NM	NM	NM	NM	1	1	7	5
Illinois	11	9	24.6%	8	6	3	3	NM	NM	8	6	2	2	0	0	2	2	NM	NM	0	0	NM	NM	1	1
Indiana	35	23	54.2%	33	22	2	1	NM	NM	29	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	2	1
Ohio	21	17	23.6%	11	7	11	10	NM	NM	8	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	27	NM	NM	NM	28	23	1	0	NM	NM	NM	14	NM	0	16	14	0	0	0	0	0	0	12	9
Iowa	5	4	22.4%	0	0	5	4	0	0	0	0	3	3	0	0	3	3	NM	0	0	0	NM	0	NM	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	2	0	0	2	2	0	0	0	0	0	0	2	1
Missouri	NM	18	NM	NM	NM	18	16	1	0	NM	NM	NM	9	NM	0	10	9	0	0	0	0	0	0	8	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	NM	0	NM	0	0	NM	0	0	0	0	0	NM	0	0	0	NM	0	0	0	0	0	0	0	0	0
South Atlantic	675	303	122.8%	557	231	118	72	42	10	498	210	74	57	17	10	57	47	6	2	0	0	6	2	55	24
Delaware	17	13	32.6%	8	6	10	7	NM	NM	6	5	NM	NM	NM	NM	5	5	0	0	0	0	0	0	4	2
District of Columbia	4	3	52.9%	0	0	4	3	0	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	2	1
Florida	42	27	51.9%	22	13	20	14	10	6	11	7	NM	NM	NM	NM	9	8	0	0	0	0	0	0	10	6
Georgia	NM	23	NM	76	15	NM	9	8	NM	68	13	NM	NM	NM	NM	NM	8	NM	0	0	0	NM	0	NM	1
Maryland	77	41	86.0%	20	14	56	27	NM	NM	18	13	NM	NM	NM	NM	22	16	4	1	0	0	4	1	30	10
North Carolina	441	191	130.9%	430	182	11	9	21	NM	394	172	22	16	15	9	8	7	0	0	0	0	0	0	3	2
South Carolina	NM	1	NM	NM	NM	3	1	0	0	NM	NM	1	0	0	0	1	0	NM	0	0	0	NM	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	3	2
West Virginia	1	0	36.3%	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	22	19	17.1%	14	11	8	8	2	0	11	10	NM	NM	NM	NM	8	8	0	0	0	0	0	0	0	0
Alabama	0	0	5.9%	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	145.0%	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	-7.7%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	18	17	6.5%	12	11	6	6	0	0	11	10	NM	NM	NM	NM	6	6	0	0	0	0	0	0	0	0
West South Central	131	83	58.4%	79	47	52	36	1	0	78	47	NM	NM	NM	NM	11	10	0	0	0	0	0	0	40	26
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	20	15	34.6%	0	0	20	15	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	19	14
Oklahoma	1	0	208.7%	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Texas	107	67	58.4%	76	47	31	20	0	0	75	47	NM	NM	NM	NM	10	9	0	0	0	0	0	0	21	11
Mountain	1,001	706	41.8%	756	519	246	187	93	68	648	437	94	89	14	14	80	75	NM	NM	NM	NM	14	13	152	99
Arizona	461	377	22.4%	331	269	131	108	61	53	267	214	NM	41	NM	3	40	38	11	11	0	0	11	11	79	58
Colorado	102	69	47.1%	54	27	48	42	0	0	51	26	22	NM	2	NM	20	19	0	0	0	0	0	0	28	22
Idaho	1	1	61.7%	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	35.1%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nevada	272	171	59.2%	239	154	33	16	NM	0	226	144	17	17	9	10	8	7	NM	NM	NM	NM	2	1	23	8
New Mexico	97	78	23.9%	82	66	16	12	29	16	53	50	7	7	0	0	7	7	0	0	0	0	0	0	9	6
Utah	66	9	612.9%	51	NM	15	7	0	0	51	NM	5	3	0	0	5	3	1	0	0	0	1	0	10	4
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	2,628	1,896	38.6%	1,873	1,337	754	559	65	59	1,792	1,263	178	160	16	14	162	146	NM	NM	NM	NM	116	89	476	325
California	2,596	1,873	38.6%	1,867	1,333	729	540	64	58	1,787	1,260	170	153	16	14	155	138	NM	NM	NM	NM	115	88	459	313
Oregon	21	16	28.1%	6	3	15	13	NM	NM	NM	NM	6	6	0	0	6	6	1	0	0	0	1	0	8	6
Washington	11	7	54.0%	0	0	11	7	0	0	0	0	2	1	0	0	2	1	0	NM	0	0	0	NM	9	6
Pacific Noncontiguous	81	66	23.6%	13	7	68	59	NM	NM	7	4	25	23	0	0	25	23	0	0	0	0	0	0	44	36
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	81	66	23.6%	13	7	68	59	NM	NM	7	4	25	23	0	0	25	23	0	0	0	0	0	0	44	36
U.S. Total	5,310	3,648	45.6%	3,593	2,371	1,717	1,276	234	154	3,283	2,156	668	586	71	58	597	528	NM	NM	NM	NM	159	123	962	625

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 July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	1,333	1,040	28.2%	524	478	809	562	14	12	504	463	456	369	5	3	451	365	34	24	0	0	34	24	324	172
Connecticut	171	107	59.8%	16	14	156	94	NM	0	13	14	63	45	0	0	63	45	7	5	0	0	7	5	85	44
Maine	15	9	64.0%	0	0	15	9	0	0	0	0	5	3	0	0	5	3	0	0	0	0	0	0	10	6
Massachusetts	1,005	824	21.9%	455	417	550	408	12	12	438	401	356	301	5	3	350	297	26	19	0	0	26	19	174	92
New Hampshire	26	12	120.8%	0	0	26	12	0	0	0	0	6	3	0	0	6	3	1	0	0	0	1	0	18	8
Rhode Island	21	16	33.7%	10	8	11	8	0	0	10	8	8	7	0	0	8	7	0	0	0	0	0	0	4	1
Vermont	95	72	31.8%	43	40	52	32	0	0	43	40	18	11	0	0	18	11	0	0	0	0	0	0	33	21
Middle Atlantic	2,088	1,724	21.1%	678	604	1,410	1,121	71	58	489	430	889	803	111	108	778	695	92	83	8	7	84	76	548	350
New Jersey	1,348	1,199	12.4%	534	492	814	707	71	58	357	330	647	611	105	103	542	508	47	41	NM	NM	46	40	227	159
New York	536	338	58.7%	92	60	444	278	0	0	90	59	174	132	NM	NM	172	131	7	4	0	0	7	4	265	143
Pennsylvania	204	187	9.2%	52	51	152	136	0	0	42	41	68	60	4	4	64	56	38	37	7	6	31	31	56	49
East North Central	420	328	28.0%	283	212	137	116	44	13	234	194	96	86	NM	NM	94	84	8	7	NM	NM	5	5	37	27
Illinois	58	53	9.8%	41	38	18	15	NM	NM	38	38	12	11	0	0	12	11	0	0	0	0	0	0	6	4
Indiana	190	134	42.1%	179	127	12	7	26	NM	153	122	7	4	0	0	7	4	0	0	0	0	0	0	5	3
Michigan	35	25	41.5%	9	NM	27	24	9	NM	0	0	18	17	0	0	18	17	0	0	0	0	0	0	8	6
Ohio	113	98	16.1%	54	46	60	52	7	7	41	34	48	43	NM	NM	45	41	7	6	NM	NM	4	4	10	7
Wisconsin	22	18	22.6%	NM	NM	21	17	0	0	NM	NM	12	11	0	0	12	11	1	0	0	0	1	0	9	6
West North Central	181	144	25.6%	26	16	155	128	1	0	24	16	89	75	NM	0	88	75	2	2	0	0	2	2	65	50
Iowa	27	21	25.4%	0	0	27	21	0	0	0	0	18	14	0	0	18	14	0	1	0	0	0	1	9	7
Kansas	5	4	30.4%	NM	NM	4	3	0	0	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Minnesota	26	17	47.9%	5	NM	20	15	0	0	5	NM	10	8	0	0	10	8	1	1	0	0	1	1	9	6
Missouri	120	100	19.7%	17	13	103	87	1	0	15	13	60	52	NM	0	58	52	1	0	0	0	1	0	44	35
Nebraska	3	1	267.7%	NM	0	1	1	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
North Dakota	0	0	0.4%	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	16.6%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	3,568	1,721	107.3%	2,917	1,297	651	423	237	67	2,592	1,169	434	342	88	62	346	281	31	10	0	0	31	10	274	133
Delaware	90	77	18.1%	39	37	52	39	5	5	32	31	33	29	NM	NM	31	28	2	2	0	0	2	2	19	10
District of Columbia	22	16	35.6%	0	0	22	16	0	0	0	0	15	12	0	0	15	12	0	0	0	0	0	0	8	5
Florida	233	175	33.3%	107	86	126	89	52	43	54	41	62	50	NM	NM	61	49	3	1	0	0	3	1	62	39
Georgia	454	139	226.5%	397	87	58	53	46	8	348	76	52	51	NM	NM	50	49	2	1	0	0	2	1	6	3
Maryland	390	227	71.7%	106	78	284	149	7	6	97	69	131	94	3	3	128	91	21	5	0	0	21	5	135	54
North Carolina	2,330	1,060	119.7%	2,262	1,007	68	54	125	5	2,057	948	128	97	80	54	48	43	2	1	0	0	2	1	19	10
South Carolina	16	7	124.9%	4	3	12	4	0	0	4	3	3	1	0	0	3	1	0	0	0	0	0	0	9	3
Virginia	29	17	69.5%	NM	0	25	17	NM	0	0	0	10	8	0	0	10	8	0	0	0	0	0	0	14	9
West Virginia	3	2	33.0%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	2
East South Central	117	113	4.0%	68	65	50	48	4	0	61	62	49	49	NM	NM	47	46	0	0	0	0	0	0	3	2
Alabama	2	2	4.3%	0	0	2	2	0	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	0	0
Kentucky	14	8	63.7%	4	0	9	8	4	0	0	0	7	7	0	0	7	7	0	0	0	0	0	0	2	1
Mississippi	1	1	-12.4%	0	0	1	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Tennessee	101	101	-0.7%	64	65	37	37	0	0	61	62	39	39	NM	NM	37	37	0	0	0	0	0	0	0	0
West South Central	723	432	67.4%	431	234	293	198	3	0	425	232	70	57	NM	NM	68	55	0	0	0	0	0	0	225	143
Arkansas	22	3	576.7%	17	0	4	3	0	0	17	0	2	2	0	0	2	2	0	0	0	0	0	0	2	2
Louisiana	118	84	41.3%	0	0	118	84	0	0	0	0	5	3	0	0	5	3	0	0	0	0	0	0	114	81
Oklahoma	6	2	217.7%	3	0	2	2	3	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	1
Texas	578	343	68.2%	410	234	168	109	0	0	408	232	63	51	NM	NM	61	50	0	0	0	0	0	0	107	60
Mountain	5,736	4,331	32.4%	4,258	3,209	1,478	1,122	511	413	3,670	2,727	586	533	75	67	511	465	101	85	NM	NM	99	83	868	574
Arizona	2,756	2,360	16.7%	1,930	1,683	826	677	334	321	1,581	1,348	283	268	15	15	268	253	82	70	0	0	82	70	476	353
Colorado	564	409	37.9%	283	170	281	239	0	0	272	160	131	125	11	10	120	114	1	1	0	0	1	1	160	123
Idaho	6	3	60.5%	0	0	6	3	0	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	4	2
Montana	7	5	34.3%	0	0	7	5	0	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	5	3
Nevada	1,506	1,030	46.2%	1,325	951	181	79	22	0	1,252	907	97	78	49	42	47	36	13	10	NM	NM	11	8	123	35
New Mexico	564	479	17.7%	464	398	100	81	155	92	309	306	46	43	0	0	46	43	1	1	0	0	1	1	53	37
Utah	332	42	692.4%	256	7	76	35	0	0	256	7	24	14	0	0	24	14	4	3	0	0	4	3	48	18
Wyoming	2	2	34.4%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Pacific Contiguous	13,747	10,616	29.5%	9,595	7,574	4,152	3,042	351	345	9,153	7,143	1,046	893	84	80	962	812	641	508	7	6	634	502	2,556	1,728
California	13,596	10,506	29.4%	9,564	7,554	4,032	2,952	346	340	9,127	7,127	1,010	859	84	80	926	778	637	506	7	6	630	499	2,476	1,675
Oregon	100	80	25.6%	31	20	69	60	5	5	26	15	29	28	0	0	29	28	3	2	0	0	3	2	38	29
Washington	50	31	62.1%	0	1	50	31	0	1	0	0	7	6	0	0	7	6	0	0	0	0	0	0	42	25
Pacific Noncontiguous	489	398	22.9%	61	42	428	356	35	18	26	25	153	139	0	0	153	139	1	0	0	0	1	0	274	216
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	489	398	22.9%	61	42	428	356	35	18	26	25	153	139	0	0	153	139	1	0	0	0	1	0	274	216
U.S. Total	28,403	20,848	36.2%	18,840	13,732	9,563	7,116	1,271	926	17,179	12,461	3,869	3,346	371	327	3,499	3,018	910	719	19	18	891	702	5,174	3,397

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, July 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	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 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	5	17	-68.9%	5	17	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	5	17	-68.9%	5	17	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	128	99	29.8%	0	0	128	99	0	0	0	0
Arizona	85	86	-1.4%	0	0	85	86	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	43	13	244.0%	0	0	43	13	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	338	267	26.7%	0	0	338	267	0	0	0	0
California	338	267	26.7%	0	0	338	267	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	471	383	23.1%	5	17	466	365	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 July 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	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 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	54	72	-25.1%	54	72	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	54	72	-25.1%	54	72	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	584	509	14.6%	0	0	584	509	0	0	0	0
Arizona	442	439	0.7%	0	0	442	439	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	142	70	101.6%	0	0	142	70	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	1,493	1,419	5.2%	0	0	1,493	1,419	0	0	0	0
California	1,493	1,419	5.2%	0	0	1,493	1,419	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	2,130	2,000	6.5%	54	72	2,076	1,928	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-July 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
July	74,428	54,535	19,549	10	333
Year to Date					
2014	509,852	371,761	135,223	135	2,734
2015	448,431	331,873	114,025	106	2,428
2016	374,764	279,879	92,709	81	2,095
Rolling 12 Months Ending in July					
2015	792,213	584,347	203,371	172	4,323
2016	667,188	496,496	166,717	139	3,836

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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-July 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
July	1,187	85	161	38	903
Year to Date					
2014	10,890	610	1,148	563	8,568
2015	10,328	577	1,160	427	8,165
2016	8,920	569	1,015	346	6,989
Rolling 12 Months Ending in July					
2015	17,545	944	1,832	724	14,044
2016	16,315	1,226	1,789	617	12,684

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-July 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
July	75,615	54,620	19,710	48	1,237
Year to Date					
2014	520,742	372,371	136,371	698	11,303
2015	458,759	332,450	115,184	532	10,593
2016	383,684	280,448	93,725	427	9,084
Rolling 12 Months Ending in July					
2015	809,758	585,291	205,203	897	18,367
2016	683,503	497,722	168,506	756	16,520

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-July 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
July	2,231	1,707	457	NM	57
Year to Date					
2014	23,184	13,330	9,061	317	476
2015	21,013	12,496	7,678	325	514
2016	12,671	9,445	2,811	72	342
Rolling 12 Months Ending in July					
2015	29,360	18,818	9,306	459	777
2016	21,203	16,020	4,453	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.
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.
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-July 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
July	255	0	90	NM	152
Year to Date					
2014	2,097	60	737	202	1,098
2015	1,977	58	753	138	1,028
2016	1,521	15	591	91	824
Rolling 12 Months Ending in July					
2015	2,980	62	1,186	152	1,580
2016	2,624	20	1,061	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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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.
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-July 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
July	2,486	1,707	546	NM	209
Year to Date					
2014	25,281	13,390	9,798	519	1,574
2015	22,990	12,554	8,431	463	1,542
2016	14,191	9,460	3,402	163	1,166
Rolling 12 Months Ending in July					
2015	32,340	18,881	10,492	611	2,356
2016	23,827	16,040	5,514	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-July 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
July	408	325	56	0	27
Year to Date					
2014	2,716	2,120	371	1	225
2015	2,466	1,878	406	1	181
2016	2,614	2,110	324	1	178
Rolling 12 Months Ending in July					
2015	4,162	3,199	634	2	327
2016	4,235	3,351	590	2	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 Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2006-July 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
July	79	0	8	1	70
Year to Date					
2014	753	1	45	7	700
2015	864	5	64	8	786
2016	588	1	58	7	521
Rolling 12 Months Ending in July					
2015	1,394	7	109	17	1,261
2016	1,086	5	104	16	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.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-July 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
July	488	325	65	1	97
Year to Date					
2014	3,469	2,121	416	8	924
2015	3,330	1,884	470	9	967
2016	3,202	2,112	382	8	700
Rolling 12 Months Ending in July					
2015	5,556	3,206	743	19	1,588
2016	5,322	3,356	693	18	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-July 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
July	1,183,821	580,676	539,657	6,645	56,843
Year to Date					
2014	4,760,040	2,196,858	2,165,237	40,696	357,249
2015	5,639,911	2,660,406	2,585,709	41,793	352,003
2016	6,094,532	2,978,914	2,705,487	41,366	368,766
Rolling 12 Months Ending in July					
2015	9,424,257	4,358,556	4,374,505	73,053	618,143
2016	10,502,968	5,051,549	4,743,881	73,121	634,417

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

Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2006-July 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
July	81,742	954	26,432	5,233	49,123
Year to Date					
2014	503,671	2,593	169,992	27,541	303,546
2015	531,809	4,624	177,628	30,834	318,723
2016	548,478	5,944	175,622	33,870	333,042
Rolling 12 Months Ending in July					
2015	893,283	6,957	299,652	49,927	536,747
2016	936,628	9,846	303,420	56,498	566,865

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

Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-July 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
July	1,265,563	581,630	566,088	11,878	105,966
Year to Date					
2014	5,263,712	2,199,451	2,335,228	68,238	660,795
2015	6,171,719	2,665,029	2,763,337	72,626	670,726
2016	6,643,011	2,984,859	2,881,109	75,235	701,808
Rolling 12 Months Ending in July					
2015	10,317,540	4,365,512	4,674,157	122,980	1,154,890
2016	11,439,596	5,061,395	5,047,301	129,618	1,201,282

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 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2006-July 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
July	26,512	2,387	21,750	1,965	410
Year to Date					
2014	172,282	15,104	137,960	16,425	2,793
2015	189,476	18,143	152,626	15,718	2,990
2016	187,038	17,530	151,465	14,947	3,095
Rolling 12 Months Ending in July					
2015	303,176	28,858	243,112	26,331	4,875
2016	324,016	30,499	261,917	26,270	5,330

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 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 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2006-July 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
July	196	0	106	48	42
Year to Date					
2014	1,063	127	353	391	193
2015	1,778	121	814	556	287
2016	2,402	18	1,204	651	529
Rolling 12 Months Ending in July					
2015	2,424	171	985	839	430
2016	3,621	106	1,766	1,012	736

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

Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-July 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
July	26,708	2,387	21,856	2,013	452
Year to Date					
2014	173,346	15,231	138,313	16,816	2,985
2015	191,254	18,265	153,439	16,274	3,277
2016	189,440	17,549	152,669	15,598	3,624
Rolling 12 Months Ending in July					
2015	305,601	29,028	244,097	27,170	5,305
2016	327,637	30,605	263,683	27,282	6,067

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 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2006-July 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
July	1,395	37	1,161	196	0
Year to Date					
2014	9,709	261	8,030	1,415	3
2015	8,971	316	7,375	1,278	2
2016	9,325	530	7,500	1,289	5
Rolling 12 Months Ending in July					
2015	15,967	499	13,153	2,310	5
2016	15,996	980	12,796	2,213	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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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 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2006-July 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
July	164	0	54	95	14
Year to Date					
2014	1,145	0	386	646	113
2015	1,083	0	377	606	100
2016	1,138	0	424	623	91
Rolling 12 Months Ending in July					
2015	1,893	0	641	1,065	187
2016	1,908	0	695	1,049	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 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-July 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
July	1,558	37	1,215	292	15
Year to Date					
2014	10,854	261	8,416	2,061	116
2015	10,054	316	7,751	1,884	102
2016	10,462	530	7,924	1,912	96
Rolling 12 Months Ending in July					
2015	17,860	499	13,794	3,375	192
2016	17,905	980	13,491	3,262	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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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-July 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
July	33,842	4,304	13,961	72	15,505
Year to Date					
2014	247,664	26,082	99,166	677	121,738
2015	246,381	25,483	102,079	469	118,350
2016	224,858	25,484	89,688	405	109,282
Rolling 12 Months Ending in July					
2015	430,002	45,044	177,426	752	206,779
2016	402,441	43,996	162,646	659	195,141

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-July 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
July	77,623	669	1,288	362	75,304
Year to Date					
2014	547,973	5,159	13,082	2,260	527,473
2015	542,856	5,391	10,381	2,082	525,002
2016	529,646	5,138	10,120	2,469	511,919
Rolling 12 Months Ending in July					
2015	941,227	9,067	19,561	3,589	909,010
2016	910,427	8,991	17,767	3,919	879,750

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Values for 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, July 2016 and July 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	109	92	19.0%	26	11	83	80	0	0	NM	1
Connecticut	8	11	-29.0%	0	0	8	11	0	0	0	0
Maine	1	1	56.0%	0	0	1	1	0	0	0	0
Massachusetts	74	68	8.5%	0	0	74	68	0	0	NM	0
New Hampshire	26	11	129.0%	26	11	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	3,082	2,964	4.0%	0	0	3,063	2,944	NM	NM	19	20
New Jersey	58	51	14.0%	0	0	58	51	0	0	0	0
New York	124	118	5.2%	0	0	116	112	0	0	7	6
Pennsylvania	2,900	2,796	3.7%	0	0	2,888	2,781	NM	NM	12	15
East North Central	15,115	16,417	-7.9%	9,103	10,431	5,946	5,903	2	4	64	78
Illinois	4,030	4,486	-10.0%	493	482	3,493	3,949	NM	1	44	53
Indiana	3,631	3,932	-7.7%	3,475	3,680	154	250	1	1	NM	NM
Michigan	2,306	2,888	-20.0%	2,278	2,860	22	22	0	2	6	5
Ohio	3,041	2,896	5.0%	760	1,211	2,277	1,681	NM	NM	3	4
Wisconsin	2,108	2,214	-4.8%	2,097	2,198	0	0	NM	NM	11	16
West North Central	12,397	12,763	-2.9%	12,282	12,628	NM	1	3	5	111	129
Iowa	1,932	1,941	-0.5%	1,867	1,870	0	0	3	3	63	68
Kansas	1,640	1,779	-7.8%	1,640	1,779	0	0	0	0	0	0
Minnesota	1,334	1,514	-12.0%	1,309	1,483	0	0	NM	NM	25	32
Missouri	3,781	3,889	-2.8%	3,778	3,884	NM	1	0	2	NM	2
Nebraska	1,314	1,540	-15.0%	1,296	1,517	0	0	0	0	17	23
North Dakota	2,247	2,100	7.0%	2,242	2,094	0	0	0	0	5	6
South Dakota	149	0	--	149	0	0	0	0	0	0	0
South Atlantic	12,425	11,738	5.9%	10,904	10,264	1,487	1,418	NM	NM	32	53
Delaware	53	21	148.0%	0	0	53	21	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,101	1,958	7.3%	2,035	1,880	61	74	0	0	NM	NM
Georgia	2,445	2,284	7.1%	2,439	2,280	0	0	0	0	6	NM
Maryland	793	691	15.0%	0	0	791	688	0	NM	2	3
North Carolina	2,126	2,133	-0.3%	2,077	2,085	NM	NM	1	1	NM	NM
South Carolina	1,075	1,041	3.2%	1,070	1,036	0	0	0	0	NM	5
Virginia	819	848	-3.3%	762	773	49	64	NM	NM	NM	NM
West Virginia	3,013	2,761	9.1%	2,520	2,212	489	529	0	0	4	21
East South Central	7,628	8,187	-6.8%	7,279	7,836	329	330	0	0	20	22
Alabama	1,931	2,455	-21.0%	1,926	2,452	0	0	0	0	NM	NM
Kentucky	3,275	3,387	-3.3%	3,275	3,387	0	0	0	0	0	0
Mississippi	580	587	-1.3%	251	257	329	330	0	0	0	0
Tennessee	1,842	1,758	4.8%	1,827	1,740	0	0	0	0	15	19
West South Central	13,647	14,152	-3.6%	6,534	6,992	7,096	7,140	0	0	NM	NM
Arkansas	1,588	1,569	1.2%	1,332	1,310	255	258	0	0	1	1
Louisiana	1,192	1,091	9.3%	735	695	457	396	0	0	0	0
Oklahoma	1,283	1,740	-26.0%	1,133	1,607	134	114	0	0	NM	NM
Texas	9,584	9,753	-1.7%	3,334	3,380	6,250	6,373	0	0	0	0
Mountain	9,354	9,773	-4.3%	8,238	8,657	1,056	1,052	0	0	60	64
Arizona	1,746	2,040	-14.0%	1,746	2,040	0	0	0	0	0	0
Colorado	1,647	1,664	-1.0%	1,645	1,661	NM	NM	0	0	NM	NM
Idaho	1	1	-20.0%	0	0	0	0	0	0	1	1
Montana	961	955	0.7%	NM	NM	935	929	0	0	NM	NM
Nevada	225	220	1.9%	169	169	55	51	0	0	0	0
New Mexico	1,142	1,140	0.2%	1,142	1,140	0	0	0	0	0	0
Utah	1,175	1,333	-12.0%	1,109	1,261	NM	NM	0	0	45	43
Wyoming	2,457	2,420	1.6%	2,402	2,360	NM	NM	0	0	13	19
Pacific Contiguous	569	643	-11.0%	152	192	410	445	0	0	7	7
California	6	10	-39.0%	0	0	0	NM	0	0	6	6
Oregon	152	192	-21.0%	152	192	0	0	0	0	0	0
Washington	411	442	-6.9%	0	0	410	441	0	0	1	1
Pacific Noncontiguous	102	103	-1.5%	17	20	79	77	3	3	NM	NM
Alaska	34	42	-20.0%	17	20	NM	18	3	3	0	0
Hawaii	68	61	11.0%	0	0	66	59	0	0	NM	NM
U.S. Total	74,428	76,833	-3.1%	54,535	57,032	19,549	19,390	10	15	333	396

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 July 2016 and July 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	730	1,463	-50.0%	98	369	628	1,085	0	0	5	9
Connecticut	47	350	-87.0%	0	0	47	350	0	0	0	0
Maine	9	15	-41.0%	0	0	7	9	0	0	2	7
Massachusetts	577	729	-21.0%	0	0	574	726	0	0	3	3
New Hampshire	98	369	-74.0%	98	369	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	16,026	20,991	-24.0%	0	0	15,895	20,846	NM	2	130	143
New Jersey	322	536	-40.0%	0	0	322	536	0	0	0	0
New York	460	815	-44.0%	0	0	418	776	0	0	43	40
Pennsylvania	15,244	19,639	-22.0%	0	0	15,156	19,534	NM	2	87	104
East North Central	81,037	100,101	-19.0%	51,338	62,865	29,205	36,664	19	28	475	545
Illinois	20,403	27,194	-25.0%	2,720	3,237	17,354	23,601	7	9	321	346
Indiana	20,459	23,730	-14.0%	19,248	22,134	1,201	1,586	7	7	3	3
Michigan	13,430	17,303	-22.0%	13,246	17,105	141	141	4	11	39	46
Ohio	16,213	19,240	-16.0%	5,673	7,870	10,508	11,335	NM	1	31	34
Wisconsin	10,532	12,635	-17.0%	10,451	12,519	0	0	NM	NM	82	115
West North Central	65,425	75,743	-14.0%	64,645	74,841	7	9	26	34	746	859
Iowa	8,269	11,424	-28.0%	7,845	10,952	0	0	18	19	406	454
Kansas	7,996	9,948	-20.0%	7,996	9,948	0	0	0	0	0	0
Minnesota	7,796	9,152	-15.0%	7,621	8,941	0	0	2	2	173	209
Missouri	21,120	22,885	-7.7%	21,095	22,852	7	9	6	13	11	11
Nebraska	7,193	8,618	-17.0%	7,070	8,470	0	0	0	0	123	148
North Dakota	12,184	13,381	-8.9%	12,152	13,343	0	0	0	0	33	38
South Dakota	867	335	159.0%	867	335	0	0	0	0	0	0
South Atlantic	59,288	67,309	-12.0%	52,134	58,912	6,937	8,073	12	19	205	305
Delaware	158	215	-26.0%	0	0	158	215	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	9,469	11,367	-17.0%	9,274	11,079	167	258	0	0	29	30
Georgia	11,069	12,741	-13.0%	11,037	12,708	0	0	0	0	32	33
Maryland	3,327	4,283	-22.0%	0	0	3,315	4,259	0	4	12	20
North Carolina	8,252	10,612	-22.0%	8,057	10,402	161	174	8	10	27	26
South Carolina	5,305	5,992	-11.0%	5,273	5,956	0	0	0	0	33	36
Virginia	4,573	4,586	-0.3%	4,371	4,209	151	325	NM	NM	47	47
West Virginia	17,134	17,514	-2.2%	14,122	14,559	2,986	2,842	0	0	26	114
East South Central	39,079	46,908	-17.0%	37,212	44,827	1,724	1,931	0	0	142	150
Alabama	9,425	12,483	-24.0%	9,393	12,453	0	0	0	0	32	30
Kentucky	18,468	21,729	-15.0%	18,468	21,729	0	0	0	0	0	0
Mississippi	2,543	3,166	-20.0%	818	1,234	1,724	1,931	0	0	0	0
Tennessee	8,644	9,529	-9.3%	8,533	9,410	0	0	0	0	111	120
West South Central	61,955	74,257	-17.0%	30,275	36,874	31,588	37,289	0	0	92	94
Arkansas	6,847	7,906	-13.0%	5,517	6,518	1,322	1,379	0	0	8	8
Louisiana	5,014	6,521	-23.0%	3,484	3,625	1,530	2,896	0	0	0	0
Oklahoma	5,816	9,558	-39.0%	5,111	8,920	620	552	0	0	85	86
Texas	44,278	50,272	-12.0%	16,162	17,809	28,116	32,462	0	0	0	0
Mountain	49,301	59,273	-17.0%	43,635	52,678	5,426	6,330	0	0	240	265
Arizona	8,882	11,537	-23.0%	8,882	11,537	0	0	0	0	0	0
Colorado	9,261	10,422	-11.0%	9,250	10,409	NM	NM	0	0	NM	NM
Idaho	8	9	-16.0%	0	0	0	0	0	0	8	9
Montana	4,908	5,790	-15.0%	136	159	4,769	5,628	0	0	4	4
Nevada	658	785	-16.0%	377	523	281	262	0	0	0	0
New Mexico	5,728	6,784	-16.0%	5,728	6,784	0	0	0	0	0	0
Utah	6,416	8,637	-26.0%	6,155	8,353	133	158	0	0	129	126
Wyoming	13,440	15,308	-12.0%	13,108	14,912	233	271	0	0	99	124
Pacific Contiguous	1,231	1,733	-29.0%	395	371	788	1,316	0	0	48	46
California	43	55	-22.0%	0	0	0	NM	0	0	43	41
Oregon	395	371	6.6%	395	371	0	0	0	0	0	0
Washington	793	1,307	-39.0%	0	0	788	1,302	0	0	5	5
Pacific Noncontiguous	693	654	5.9%	148	137	512	482	23	24	NM	NM
Alaska	268	280	-4.2%	148	137	97	119	23	24	0	0
Hawaii	425	374	13.0%	0	0	414	363	0	0	NM	NM
U.S. Total	374,764	448,431	-16.0%	279,879	331,873	92,709	114,025	81	106	2,095	2,428

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

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	131	111	18.0%	19	10	107	95	NM	NM	NM	NM
Connecticut	38	41	-7.0%	NM	NM	37	39	NM	NM	NM	NM
Maine	12	24	-52.0%	NM	NM	11	23	NM	NM	NM	NM
Massachusetts	64	36	77.0%	3	NM	59	33	NM	NM	NM	NM
New Hampshire	14	NM	NM	14	5	NM	NM	NM	NM	NM	NM
Rhode Island	NM	NM	NM	2	NM	0	0	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	198	161	23.0%	62	46	129	102	NM	7	NM	6
New Jersey	NM	13	NM	NM	NM	NM	13	NM	NM	NM	NM
New York	125	87	44.0%	62	45	59	32	NM	7	NM	2
Pennsylvania	69	61	13.0%	NM	NM	66	57	NM	NM	NM	NM
East North Central	99	102	-2.8%	67	72	30	26	NM	NM	2	3
Illinois	NM	8	NM	NM	NM	5	4	NM	NM	NM	NM
Indiana	20	21	-3.0%	19	19	NM	NM	NM	NM	1	2
Michigan	26	23	16.0%	26	22	0	0	NM	0	NM	1
Ohio	34	46	-26.0%	9	24	25	21	NM	NM	NM	0
Wisconsin	10	4	165.0%	10	NM	0	NM	NM	NM	NM	NM
West North Central	47	58	-19.0%	42	53	NM	NM	NM	NM	NM	NM
Iowa	8	12	-34.0%	8	12	NM	NM	NM	NM	NM	NM
Kansas	6	6	7.0%	6	6	0	0	0	0	0	0
Minnesota	13	NM	NM	9	4	NM	NM	NM	NM	NM	NM
Missouri	9	17	-46.0%	9	17	NM	NM	NM	NM	0	0
Nebraska	6	9	-29.0%	6	9	0	0	0	0	0	0
North Dakota	NM	5	NM	NM	5	0	0	NM	NM	NM	NM
South Dakota	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
South Atlantic	662	426	56.0%	588	339	65	62	NM	NM	9	15
Delaware	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	428	54	698.0%	420	51	NM	NM	0	0	NM	2
Georgia	14	15	-10.0%	11	5	NM	NM	NM	NM	NM	11
Maryland	30	55	-45.0%	NM	NM	28	43	NM	NM	0	0
North Carolina	30	27	8.5%	NM	25	NM	NM	NM	NM	NM	NM
South Carolina	NM	9	NM	NM	7	NM	NM	NM	NM	1	1
Virginia	124	234	-47.0%	106	223	17	10	NM	NM	NM	NM
West Virginia	12	26	-55.0%	8	24	3	1	0	0	0	0
East South Central	63	57	11.0%	58	53	NM	NM	NM	NM	NM	3
Alabama	NM	10	NM	3	7	NM	NM	0	0	NM	3
Kentucky	22	19	20.0%	22	19	0	0	0	0	0	0
Mississippi	3	2	43.0%	3	2	0	0	0	0	0	0
Tennessee	30	26	14.0%	29	26	NM	NM	NM	NM	NM	NM
West South Central	15	29	-47.0%	12	16	3	11	NM	NM	NM	2
Arkansas	3	7	-63.0%	2	4	1	1	0	0	0	1
Louisiana	2	4	-39.0%	2	3	0	1	0	0	0	0
Oklahoma	NM	NM	NM	1	1	0	0	NM	NM	NM	NM
Texas	NM	17	NM	7	7	2	9	NM	NM	NM	NM
Mountain	34	37	-8.3%	28	34	6	3	NM	NM	NM	NM
Arizona	7	2	334.0%	7	2	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	NM	NM	NM	NM	5	3	0	0	0	0
Nevada	4	3	35.0%	3	3	1	0	0	0	0	0
New Mexico	6	12	-47.0%	6	12	0	0	0	0	NM	NM
Utah	4	4	0.0%	4	4	NM	NM	0	0	NM	NM
Wyoming	4	11	-65.0%	4	11	0	0	0	0	0	NM
Pacific Contiguous	30	16	89.0%	8	8	NM	NM	NM	NM	17	3
California	25	12	107.0%	6	6	NM	NM	NM	NM	16	1
Oregon	NM	1	NM	2	1	0	0	NM	NM	0	0
Washington	4	3	44.0%	NM	NM	3	NM	NM	NM	1	2
Pacific Noncontiguous	951	1,045	-9.0%	823	909	108	116	NM	NM	18	19
Alaska	105	125	-15.0%	97	114	0	0	NM	NM	8	10
Hawaii	846	920	-8.1%	725	795	108	116	1	0	11	9
U.S. Total	2,231	2,041	9.3%	1,707	1,540	457	423	NM	24	57	54

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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 July 2016 and July 2015 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	569	3,157	-82.0%	74	306	462	2,722	25	83	7	46
Connecticut	109	666	-84.0%	6	NM	98	646	NM	NM	NM	NM
Maine	175	834	-79.0%	NM	NM	168	786	NM	NM	5	43
Massachusetts	223	1,241	-82.0%	25	86	185	1,113	NM	41	NM	NM
New Hampshire	36	271	-87.0%	31	194	NM	67	4	10	NM	NM
Rhode Island	22	129	-83.0%	11	12	9	110	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	1,202	4,198	-71.0%	373	1,322	773	2,751	19	52	37	72
New Jersey	96	453	-79.0%	NM	NM	94	449	NM	NM	NM	NM
New York	746	2,819	-74.0%	371	1,319	341	1,401	15	48	20	51
Pennsylvania	359	925	-61.0%	1	NM	337	901	NM	NM	17	20
East North Central	660	711	-7.3%	441	511	199	176	4	3	16	22
Illinois	87	62	41.0%	23	24	62	38	1	NM	NM	NM
Indiana	136	199	-32.0%	126	185	NM	NM	NM	NM	9	14
Michigan	159	141	13.0%	155	136	0	0	2	NM	3	3
Ohio	229	260	-12.0%	93	121	134	136	NM	NM	3	3
Wisconsin	48	49	-2.0%	44	45	3	2	1	1	1	1
West North Central	336	428	-22.0%	310	391	NM	NM	10	9	1	1
Iowa	70	59	19.0%	69	57	1	NM	NM	NM	NM	NM
Kansas	44	75	-41.0%	44	75	0	0	0	0	0	0
Minnesota	54	72	-25.0%	NM	37	NM	NM	9	9	1	1
Missouri	90	118	-24.0%	90	118	NM	NM	NM	NM	0	0
Nebraska	37	35	3.8%	37	35	0	0	0	0	0	0
North Dakota	35	34	2.3%	35	34	0	0	NM	NM	NM	NM
South Dakota	NM	35	NM	NM	35	NM	NM	NM	NM	0	0
South Atlantic	2,673	4,512	-41.0%	2,004	3,189	584	995	NM	168	82	160
Delaware	81	227	-64.0%	NM	NM	79	221	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	795	691	15.0%	774	671	9	NM	0	0	12	12
Georgia	176	315	-44.0%	99	118	34	83	1	NM	42	113
Maryland	252	523	-52.0%	12	15	239	343	NM	165	2	NM
North Carolina	350	679	-48.0%	288	627	56	41	NM	NM	6	11
South Carolina	166	331	-50.0%	144	296	NM	16	NM	NM	17	19
Virginia	736	1,588	-54.0%	573	1,320	159	261	NM	NM	3	4
West Virginia	116	159	-27.0%	112	137	4	22	0	0	0	0
East South Central	361	465	-22.0%	330	413	12	28	NM	NM	19	25
Alabama	64	120	-47.0%	36	71	11	27	0	0	17	22
Kentucky	130	149	-13.0%	130	149	0	0	0	0	0	0
Mississippi	21	24	-15.0%	20	23	0	0	0	0	1	1
Tennessee	146	172	-15.0%	144	169	1	NM	NM	NM	NM	NM
West South Central	181	317	-43.0%	121	186	55	122	NM	NM	4	8
Arkansas	48	65	-27.0%	35	47	11	12	0	0	2	6
Louisiana	21	100	-79.0%	18	79	3	20	0	0	0	0
Oklahoma	16	NM	NM	16	8	0	0	NM	NM	NM	NM
Texas	96	144	-33.0%	53	51	41	90	NM	NM	NM	NM
Mountain	282	278	1.2%	248	250	30	24	NM	NM	4	4
Arizona	65	54	19.0%	65	54	0	0	NM	NM	0	0
Colorado	NM	17	NM	NM	16	0	0	0	0	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	31	NM	NM	NM	27	20	0	0	0	0
Nevada	16	19	-16.0%	13	16	3	NM	0	0	0	0
New Mexico	66	91	-27.0%	66	90	0	0	0	0	NM	NM
Utah	30	20	52.0%	29	18	NM	NM	0	0	NM	NM
Wyoming	56	47	19.0%	53	44	0	0	0	0	3	3
Pacific Contiguous	127	141	-9.5%	42	44	26	56	NM	NM	59	39
California	102	116	-11.0%	35	36	NM	49	NM	NM	51	30
Oregon	NM	NM	NM	4	6	0	0	NM	NM	0	0
Washington	21	19	8.4%	NM	NM	10	7	NM	NM	8	9
Pacific Noncontiguous	6,281	6,805	-7.7%	5,503	5,885	656	777	8	7	NM	137
Alaska	757	811	-6.7%	705	750	0	0	NM	2	50	59
Hawaii	5,523	5,994	-7.9%	4,798	5,134	656	777	6	5	NM	78
U.S. Total	12,671	21,013	-40.0%	9,445	12,496	2,811	7,678	72	325	342	514

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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, July 2016 and July 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 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	NM	NM	0	0	0	0	0	0	NM	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	83	132	-37.0%	38	82	41	44	0	0	NM	7
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	49	-100.0%	0	49	0	0	0	0	0	0
Michigan	38	34	11.0%	33	30	0	0	0	0	NM	4
Ohio	41	44	-6.3%	0	0	41	44	0	0	NM	NM
Wisconsin	5	6	-14.0%	5	3	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	84	78	8.0%	82	76	0	0	0	0	2	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	82	76	8.3%	82	76	0	0	0	0	0	0
Georgia	2	2	-1.3%	0	0	0	0	0	0	2	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	47	31	52.0%	47	31	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	47	31	52.0%	47	31	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	156	8.3%	157	145	0	0	0	0	12	11
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	165	152	9.0%	157	145	0	0	0	0	NM	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	16	15	1.8%	0	0	16	15	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	16	15	1.8%	0	0	16	15	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	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	408	421	-3.0%	325	333	56	59	0	0	27	28

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 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	34	28	22.0%	0	0	0	0	0	0	34	28
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	26	26	0.4%	0	0	0	0	0	0	26	26
East North Central	605	774	-22.0%	341	437	232	299	0	0	32	39
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	159	208	-24.0%	159	208	0	0	0	0	0	0
Michigan	191	241	-21.0%	165	212	1	7	0	0	25	23
Ohio	232	292	-21.0%	0	0	231	292	0	0	1	0
Wisconsin	24	33	-27.0%	17	17	0	0	0	0	7	16
West North Central	22	18	23.0%	0	0	0	0	1	1	21	17
Iowa	22	18	23.0%	0	0	0	0	1	1	21	17
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	510	346	48.0%	495	328	0	0	0	0	16	18
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	495	328	51.0%	495	328	0	0	0	0	0	0
Georgia	16	18	-10.0%	0	0	0	0	0	0	16	18
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	264	245	8.1%	264	245	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	264	245	8.1%	264	245	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1,086	948	15.0%	1,011	868	0	0	0	0	75	80
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,059	900	18.0%	1,011	868	0	0	0	0	48	32
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	27	48	-44.0%	0	0	0	0	0	0	27	48
Mountain	92	106	-13.0%	0	0	92	106	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	92	106	-13.0%	0	0	92	106	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	2,614	2,466	6.0%	2,110	1,878	324	406	1	1	178	181

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, July 2016 and July 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	
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	47,858	48,159	-0.6%	805	713	45,185	45,672	892	894	976	880
Connecticut	12,299	12,461	-1.3%	0	4	11,412	11,571	398	397	489	490
Maine	3,619	1,433	153.0%	0	0	3,240	1,132	NM	NM	349	272
Massachusetts	21,727	23,073	-5.8%	607	638	20,606	21,927	389	402	124	105
New Hampshire	4,177	4,241	-1.5%	197	71	3,951	4,140	NM	NM	NM	NM
Rhode Island	6,035	6,951	-13.0%	0	0	5,976	6,902	NM	NM	0	0
Vermont	1	0	119.0%	1	0	0	0	0	0	0	0
Middle Atlantic	156,039	131,646	19.0%	16,312	15,320	137,495	114,226	1,026	965	1,205	1,135
New Jersey	39,417	29,796	32.0%	NM	NM	38,774	29,170	NM	160	348	357
New York	59,180	53,784	10.0%	16,155	15,191	42,096	37,789	717	660	213	144
Pennsylvania	57,441	48,067	20.0%	NM	NM	56,625	47,267	NM	NM	645	635
East North Central	102,464	71,073	44.0%	48,260	30,712	51,333	37,251	1,113	1,473	1,758	1,636
Illinois	23,165	11,858	95.0%	2,248	1,260	20,190	9,480	427	830	300	288
Indiana	15,763	10,291	53.0%	12,559	8,482	2,743	1,334	111	101	351	374
Michigan	26,510	17,601	51.0%	13,408	5,026	11,757	11,373	NM	344	NM	857
Ohio	22,961	20,393	13.0%	7,551	6,033	15,242	14,205	NM	NM	37	37
Wisconsin	14,065	10,929	29.0%	12,494	9,912	1,401	859	NM	79	NM	79
West North Central	26,281	23,605	11.0%	22,046	20,197	3,502	2,848	NM	336	NM	224
Iowa	3,461	3,187	8.6%	3,332	3,062	NM	NM	NM	NM	NM	NM
Kansas	3,558	3,544	0.4%	3,369	3,425	0	0	0	0	NM	119
Minnesota	8,849	7,359	20.0%	6,935	6,134	1,665	1,022	NM	184	NM	NM
Missouri	7,343	6,540	12.0%	5,365	4,613	1,836	1,825	136	98	NM	NM
Nebraska	1,188	1,257	-5.5%	1,171	1,257	0	0	NM	NM	NM	0
North Dakota	NM	501	NM	728	490	0	0	0	0	NM	NM
South Dakota	1,145	1,216	-5.9%	1,145	1,216	0	0	0	0	0	0
South Atlantic	267,751	237,982	13.0%	206,082	184,567	58,309	50,247	681	644	2,679	2,525
Delaware	8,501	6,791	25.0%	NM	NM	7,277	5,639	0	0	1,130	1,082
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	123,490	111,867	10.0%	109,731	104,904	12,901	6,175	NM	NM	824	766
Georgia	43,250	40,253	7.4%	32,444	24,462	10,584	15,372	0	0	222	419
Maryland	10,107	6,950	45.0%	0	0	9,510	6,392	545	529	53	30
North Carolina	29,180	26,019	12.0%	24,142	21,880	4,919	4,066	10	5	108	69
South Carolina	15,608	14,817	5.3%	12,909	13,073	2,660	1,723	NM	NM	25	NM
Virginia	36,691	29,068	26.0%	26,440	19,970	10,106	8,947	NM	NM	139	145
West Virginia	851	2,142	-60.0%	323	208	351	1,934	0	0	177	0
East South Central	103,519	89,285	16.0%	69,348	54,205	32,931	33,684	NM	122	1,110	1,273
Alabama	44,992	39,991	13.0%	14,882	10,683	29,519	28,475	0	0	590	833
Kentucky	8,245	6,487	27.0%	7,075	4,879	1,010	1,432	0	0	159	177
Mississippi	39,921	35,039	14.0%	37,332	31,080	2,390	3,768	NM	NM	190	181
Tennessee	10,361	7,768	33.0%	10,059	7,564	NM	NM	NM	113	171	82
West South Central	290,340	288,162	0.8%	112,898	103,434	134,453	143,483	814	743	42,175	40,502
Arkansas	15,883	12,518	27.0%	7,510	4,968	8,278	7,415	NM	NM	93	133
Louisiana	56,138	54,681	2.7%	33,985	32,842	4,422	3,396	NM	NM	17,575	18,283
Oklahoma	33,866	30,484	11.0%	24,114	19,826	9,661	10,570	NM	NM	NM	81
Texas	184,453	190,479	-3.2%	47,290	45,798	112,093	122,101	634	575	24,437	22,005
Mountain	90,105	82,865	8.7%	65,093	56,539	23,816	25,031	351	348	845	947
Arizona	36,394	33,954	7.2%	19,180	16,680	17,097	17,160	117	114	0	0
Colorado	11,569	9,498	22.0%	9,338	7,289	2,212	2,188	0	0	NM	NM
Idaho	2,598	3,219	-19.0%	2,047	2,094	NM	1,086	0	0	NM	39
Montana	1,010	918	10.0%	916	843	NM	NM	0	0	0	0
Nevada	22,246	20,599	8.0%	20,829	19,193	1,188	1,172	NM	NM	174	178
New Mexico	9,238	8,045	15.0%	6,525	5,305	2,580	2,604	100	100	NM	NM
Utah	6,711	6,195	8.3%	6,097	5,051	NM	NM	NM	78	351	349
Wyoming	NM	437	NM	NM	NM	NM	NM	0	0	NM	325
Pacific Contiguous	97,180	113,017	-14.0%	37,648	43,384	52,632	62,502	1,249	1,238	5,650	5,893
California	77,283	89,412	-14.0%	26,879	27,958	43,720	54,477	1,168	1,145	5,516	5,833
Oregon	10,581	12,024	-12.0%	4,950	5,421	5,448	6,471	NM	NM	109	46
Washington	9,316	11,581	-20.0%	5,819	10,005	3,463	1,554	NM	NM	26	15
Pacific Noncontiguous	2,284	2,460	-7.2%	2,184	2,365	0	0	NM	NM	NM	NM
Alaska	2,284	2,460	-7.2%	2,184	2,365	0	0	NM	NM	NM	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,183,821	1,088,254	8.8%	580,676	511,438	539,657	514,942	6,645	6,765	56,843	55,110

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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 2.11.B. Consumption of Nautral Gas for Electricity Generation by State, by Sector, Year-to-Date through July 2016 and July 2015 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	236,579	222,139	6.5%	1,627	2,031	224,151	209,266	5,311	5,443	5,490	5,399
Connecticut	76,272	70,391	8.4%	12	12	71,120	65,051	2,305	2,392	2,834	2,937
Maine	15,270	10,296	48.0%	0	0	13,227	8,347	NM	NM	1,867	1,774
Massachusetts	98,653	88,438	12.0%	1,307	1,902	94,233	83,428	2,401	2,500	713	608
New Hampshire	17,882	24,434	-27.0%	304	101	17,406	24,152	NM	NM	NM	NM
Rhode Island	28,498	28,563	-0.2%	0	0	28,165	28,288	333	275	0	0
Vermont	3	16	-79.0%	3	16	0	0	0	0	0	0
Middle Atlantic	740,168	658,335	12.0%	71,671	67,325	655,163	578,047	6,310	6,025	7,025	6,939
New Jersey	185,272	153,156	21.0%	NM	NM	181,732	149,581	954	934	2,018	2,136
New York	272,475	262,725	3.7%	71,009	66,751	195,808	190,825	4,557	4,244	1,102	904
Pennsylvania	282,421	242,454	16.0%	NM	NM	277,623	237,641	799	846	3,905	3,898
East North Central	528,842	403,699	31.0%	235,876	172,335	273,229	211,515	7,824	9,273	11,912	10,576
Illinois	85,997	50,122	72.0%	8,072	2,810	72,764	40,113	3,442	5,480	1,719	1,719
Indiana	91,054	73,063	25.0%	70,736	57,272	17,358	12,891	656	502	2,304	2,398
Michigan	148,022	97,435	52.0%	50,846	24,550	87,956	65,093	2,447	2,140	6,773	5,651
Ohio	125,861	125,633	0.2%	34,889	34,307	90,066	90,404	727	658	180	264
Wisconsin	77,908	57,446	36.0%	71,333	53,397	5,086	3,014	552	493	936	543
West North Central	115,475	83,845	38.0%	95,134	71,707	15,682	8,902	2,455	1,986	2,204	1,250
Iowa	14,898	11,080	34.0%	13,966	10,331	NM	NM	NM	332	NM	416
Kansas	12,428	10,612	17.0%	11,484	10,162	0	0	0	0	944	450
Minnesota	44,290	29,815	49.0%	35,116	25,152	7,350	3,198	1,315	1,196	508	269
Missouri	31,446	23,563	33.0%	22,373	17,382	8,329	5,703	712	456	NM	NM
Nebraska	4,042	2,830	43.0%	3,894	2,808	0	0	NM	NM	NM	NM
North Dakota	3,122	1,899	64.0%	3,051	1,826	0	0	0	0	NM	72
South Dakota	5,250	4,046	30.0%	5,250	4,046	0	0	0	0	0	0
South Atlantic	1,427,871	1,307,009	9.2%	1,138,171	1,053,395	269,781	233,147	3,869	3,808	16,050	16,659
Delaware	36,802	34,364	7.1%	NM	NM	29,708	26,849	0	0	6,760	7,251
District of Columbia	420	443	-5.3%	0	0	0	0	420	443	0	0
Florida	706,853	662,260	6.7%	636,294	622,013	65,116	34,954	NM	NM	5,264	5,191
Georgia	231,472	206,940	12.0%	169,389	134,861	60,454	69,463	0	0	1,629	2,615
Maryland	31,065	24,239	28.0%	0	0	27,648	20,884	3,121	3,179	296	176
North Carolina	175,598	157,044	12.0%	153,564	138,579	21,376	18,018	44	23	614	423
South Carolina	71,545	71,003	0.8%	57,850	62,725	13,388	8,146	NM	NM	241	108
Virginia	167,588	143,896	16.0%	119,917	93,879	46,679	49,093	NM	NM	953	888
West Virginia	6,527	6,820	-4.3%	823	1,072	5,411	5,740	0	0	293	NM
East South Central	550,753	504,968	9.1%	353,393	303,123	189,019	192,826	766	754	7,575	8,265
Alabama	241,634	235,136	2.8%	77,998	66,265	159,095	163,455	0	0	4,541	5,416
Kentucky	40,600	28,729	41.0%	36,326	23,925	3,289	3,726	0	0	985	1,078
Mississippi	218,214	198,547	9.9%	190,277	171,628	26,586	25,601	NM	NM	1,289	1,259
Tennessee	50,305	42,556	18.0%	48,792	41,304	NM	NM	703	696	760	512
West South Central	1,563,418	1,522,310	2.7%	547,220	494,759	736,093	764,005	4,941	4,497	275,164	259,050
Arkansas	73,954	68,980	7.2%	33,984	19,474	38,901	48,248	NM	NM	1,054	1,243
Louisiana	326,143	299,995	8.7%	173,855	174,792	31,642	12,640	1,060	1,071	119,586	111,492
Oklahoma	164,817	147,248	12.0%	116,146	97,595	48,061	49,132	NM	NM	522	514
Texas	998,504	1,006,087	-0.8%	223,236	202,898	617,488	653,985	3,777	3,404	154,003	145,801
Mountain	438,347	374,942	17.0%	334,331	267,258	95,662	99,604	2,118	2,184	6,237	5,896
Arizona	149,185	121,071	23.0%	93,308	64,547	55,176	55,805	700	719	0	0
Colorado	59,022	45,948	28.0%	48,347	34,095	10,547	11,722	0	0	NM	NM
Idaho	13,767	13,560	1.5%	8,644	8,161	4,626	5,126	0	0	497	272
Montana	5,234	4,118	27.0%	4,799	3,802	NM	NM	0	0	0	0
Nevada	121,380	111,739	8.6%	112,736	102,976	7,252	7,344	333	352	1,059	1,067
New Mexico	48,515	42,994	13.0%	31,978	25,455	15,742	16,714	602	623	NM	203
Utah	38,522	33,062	17.0%	33,948	27,935	NM	2,487	482	490	2,243	2,150
Wyoming	2,723	2,449	11.0%	NM	NM	NM	NM	0	0	2,119	2,072
Pacific Contiguous	478,586	544,880	-12.0%	187,663	211,325	246,707	288,398	7,725	7,811	36,491	37,346
California	383,445	447,727	-14.0%	133,149	153,255	207,547	250,294	7,127	7,230	35,622	36,948
Oregon	52,790	56,123	-5.9%	22,624	22,418	29,065	32,922	NM	540	560	243
Washington	42,351	41,031	3.2%	31,890	35,652	10,095	5,182	NM	41	309	155
Pacific Noncontiguous	14,493	17,783	-19.0%	13,828	17,147	0	0	NM	NM	NM	623
Alaska	14,493	17,783	-19.0%	13,828	17,147	0	0	NM	NM	NM	623
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	6,094,532	5,639,911	8.1%	2,978,914	2,660,406	2,705,487	2,585,709	41,366	41,793	368,766	352,003

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 2.12.A. Consumption of Landfill Gas for Electricity Generation by State, by Sector, July 2016 and July 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	
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	1,162	1,197	-2.9%	0	0	1,083	1,109	NM	NM	0	0
Connecticut	NM	51	NM	0	0	NM	51	0	0	0	0
Maine	85	91	-6.8%	0	0	85	91	0	0	0	0
Massachusetts	411	436	-5.6%	0	0	411	436	0	0	0	0
New Hampshire	207	198	4.0%	0	0	128	110	NM	NM	0	0
Rhode Island	362	368	-1.5%	0	0	362	368	0	0	0	0
Vermont	NM	53	NM	0	0	NM	53	0	0	0	0
Middle Atlantic	5,246	5,541	-5.3%	0	0	5,069	5,360	NM	NM	NM	139
New Jersey	958	1,046	-8.4%	0	0	921	1,014	NM	NM	0	0
New York	1,742	1,845	-5.6%	0	0	1,742	1,845	0	0	0	0
Pennsylvania	2,546	2,650	-3.9%	0	0	2,406	2,501	NM	NM	NM	139
East North Central	6,553	6,930	-5.4%	732	799	5,733	6,066	NM	4	NM	NM
Illinois	1,445	1,540	-6.2%	0	0	1,445	1,540	0	0	0	0
Indiana	753	797	-5.6%	719	765	NM	NM	0	0	NM	NM
Michigan	2,080	2,208	-5.8%	0	0	2,080	2,208	0	0	0	0
Ohio	1,061	1,147	-7.5%	0	NM	1,061	1,131	0	0	0	0
Wisconsin	1,215	1,237	-1.8%	NM	NM	1,132	1,170	NM	4	NM	NM
West North Central	1,068	1,130	-5.5%	313	336	754	794	0	0	0	0
Iowa	261	275	-5.0%	0	0	261	275	0	0	0	0
Kansas	154	162	-4.8%	0	0	154	162	0	0	0	0
Minnesota	364	395	-7.9%	75	91	289	305	0	0	0	0
Missouri	137	164	-16.0%	88	112	NM	52	0	0	0	0
Nebraska	151	134	13.0%	151	134	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	4,426	4,837	-8.5%	425	565	3,557	3,841	NM	226	NM	206
Delaware	166	174	-4.3%	0	0	135	144	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	575	729	-21.0%	100	205	475	524	0	0	0	0
Georgia	360	415	-13.0%	0	0	311	330	0	NM	NM	NM
Maryland	258	276	-6.5%	0	0	183	200	NM	NM	0	0
North Carolina	1,121	1,147	-2.3%	0	0	1,004	1,061	NM	NM	0	0
South Carolina	501	526	-4.7%	318	351	NM	NM	0	0	NM	135
Virginia	1,434	1,558	-8.0%	NM	NM	1,403	1,530	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	528	562	-6.1%	215	229	313	333	0	0	0	0
Alabama	96	102	-5.6%	0	0	96	102	0	0	0	0
Kentucky	227	243	-6.5%	215	229	NM	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	179	191	-6.1%	0	0	179	191	0	0	0	0
West South Central	1,631	1,707	-4.5%	0	0	1,571	1,668	NM	NM	0	0
Arkansas	167	174	-4.0%	0	0	167	174	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	1,426	1,492	-4.5%	0	0	1,366	1,453	NM	NM	0	0
Mountain	458	553	-17.0%	NM	92	439	461	0	0	0	0
Arizona	90	165	-45.0%	0	69	90	96	0	0	0	0
Colorado	109	114	-4.7%	0	0	109	114	0	0	0	0
Idaho	58	64	-10.0%	NM	NM	NM	NM	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	57	NM	0	0	NM	57	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	147	153	-4.2%	0	0	147	153	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,348	5,777	-7.4%	682	763	3,232	3,461	1,434	1,554	0	0
California	4,239	4,618	-8.2%	173	229	2,678	2,878	1,388	1,510	0	0
Oregon	610	635	-3.9%	134	142	429	449	NM	NM	0	0
Washington	500	525	-4.8%	375	391	124	133	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	26,512	28,301	-6.3%	2,387	2,783	21,750	23,092	1,965	2,018	410	407

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

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	7,922	7,965	-0.5%	0	0	7,407	7,388	515	577	0	0
Connecticut	328	331	-0.9%	0	0	328	331	0	0	0	0
Maine	590	593	-0.6%	0	0	590	593	0	0	0	0
Massachusetts	2,850	2,859	-0.3%	0	0	2,850	2,859	0	0	0	0
New Hampshire	1,355	1,289	5.1%	0	0	840	712	515	577	0	0
Rhode Island	2,449	2,542	-3.7%	0	0	2,449	2,542	0	0	0	0
Vermont	350	350	-0.2%	0	0	350	350	0	0	0	0
Middle Atlantic	37,164	36,837	0.9%	0	0	35,805	35,539	469	388	891	910
New Jersey	6,742	6,921	-2.6%	0	0	6,436	6,647	307	274	0	0
New York	12,075	12,110	-0.3%	0	0	12,075	12,110	0	0	0	0
Pennsylvania	18,347	17,806	3.0%	0	0	17,294	16,782	NM	NM	891	910
East North Central	45,608	46,199	-1.3%	5,106	5,215	39,818	40,428	265	130	419	425
Illinois	10,037	10,602	-5.3%	0	0	10,037	10,602	0	0	0	0
Indiana	5,243	5,246	-0.1%	4,994	5,013	NM	111	0	0	NM	121
Michigan	14,452	14,499	-0.3%	0	0	14,452	14,499	0	0	0	0
Ohio	7,381	7,497	-1.5%	NM	99	7,366	7,398	0	0	0	0
Wisconsin	8,495	8,355	1.7%	NM	103	7,852	7,818	265	130	281	304
West North Central	7,473	7,357	1.6%	2,257	2,133	5,216	5,224	0	0	0	0
Iowa	1,807	1,810	-0.2%	0	0	1,807	1,810	0	0	0	0
Kansas	1,066	1,067	-0.1%	0	0	1,066	1,067	0	0	0	0
Minnesota	2,547	2,569	-0.9%	546	564	2,001	2,004	0	0	0	0
Missouri	996	1,027	-2.9%	655	684	342	342	0	0	0	0
Nebraska	1,056	885	19.0%	1,056	885	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	31,630	32,217	-1.8%	3,290	3,526	24,763	25,137	1,792	1,900	1,785	1,654
Delaware	1,143	1,153	-0.8%	0	0	937	941	0	0	206	211
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,275	4,665	-8.4%	996	1,203	3,278	3,461	0	0	0	0
Georgia	2,567	2,863	-10.0%	0	0	2,157	2,164	0	340	410	359
Maryland	1,839	1,850	-0.5%	0	0	1,284	1,296	556	553	0	0
North Carolina	7,979	7,816	2.1%	0	0	6,931	6,977	1,048	839	0	0
South Carolina	3,660	3,605	1.5%	2,238	2,266	253	255	0	0	1,169	1,084
Virginia	10,095	10,190	-0.9%	NM	NM	9,851	9,966	NM	168	0	0
West Virginia	NM	76	NM	0	0	NM	76	0	0	0	0
East South Central	3,665	3,681	-0.4%	1,494	1,500	2,171	2,180	0	0	0	0
Alabama	668	670	-0.3%	0	0	668	670	0	0	0	0
Kentucky	1,579	1,587	-0.5%	1,494	1,500	NM	87	0	0	0	0
Mississippi	174	174	-0.2%	0	0	174	174	0	0	0	0
Tennessee	1,244	1,249	-0.4%	0	0	1,244	1,249	0	0	0	0
West South Central	11,364	11,255	1.0%	0	0	10,902	10,940	462	315	0	0
Arkansas	1,151	1,150	0.1%	0	0	1,151	1,150	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	266	268	-0.8%	0	0	266	268	0	0	0	0
Texas	9,946	9,837	1.1%	0	0	9,485	9,522	462	315	0	0
Mountain	3,238	3,632	-11.0%	205	595	3,033	3,037	0	0	0	0
Arizona	694	1,080	-36.0%	NM	453	625	627	0	0	0	0
Colorado	753	753	-0.1%	0	0	753	753	0	0	0	0
Idaho	407	413	-1.4%	137	141	270	272	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	372	372	-0.1%	0	0	372	372	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1,013	1,013	0.0%	0	0	1,013	1,013	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	38,124	39,656	-3.9%	5,178	5,174	22,351	22,752	10,595	11,729	0	0
California	30,417	31,964	-4.8%	1,662	1,657	18,522	18,919	10,234	11,388	0	0
Oregon	4,253	4,235	0.4%	930	932	2,962	2,962	361	341	0	0
Washington	3,453	3,457	-0.1%	2,587	2,585	866	871	0	0	0	0
Pacific Noncontiguous	849	678	25.0%	0	0	0	0	849	678	0	0
Alaska	849	678	25.0%	0	0	0	0	849	678	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	187,038	189,476	-1.3%	17,530	18,143	151,465	152,626	14,947	15,718	3,095	2,990

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

Table 2.13.A. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State, by Sector, July 2016 and July 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	303	311	-2.6%	0	0	289	297	14	14	0	0
Connecticut	106	110	-3.0%	0	0	106	110	0	0	0	0
Maine	22	22	0.0%	0	0	8	8	14	14	0	0
Massachusetts	165	169	-2.8%	0	0	165	169	0	0	0	0
New Hampshire	9	9	-0.3%	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	440	458	-3.9%	0	0	353	368	87	90	0	0
New Jersey	113	116	-3.0%	0	0	83	85	30	31	0	0
New York	161	166	-3.2%	0	0	126	131	34	35	0	0
Pennsylvania	166	175	-5.2%	0	0	144	151	22	24	0	0
East North Central	22	23	-3.7%	3	4	0	0	19	20	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	-19.0%	0	0	0	0	1	1	0	0
Michigan	19	19	-1.2%	0	0	0	0	19	19	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	4	-13.0%	3	4	0	0	0	0	0	0
West North Central	52	60	-14.0%	34	42	16	17	NM	NM	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	52	60	-14.0%	34	42	16	17	NM	NM	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	477	495	-3.6%	0	58	445	405	33	32	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	325	342	-4.9%	0	58	325	284	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	74	73	0.4%	0	0	74	73	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	78	80	-1.7%	0	0	46	48	33	32	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	NM	NM	0	0	NM	NM	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	NM	NM	0	0	NM	NM	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	58	66	-13.0%	0	0	58	66	0	0	0	0
California	37	46	-18.0%	0	0	37	46	0	0	0	0
Oregon	8	8	-0.9%	0	0	8	8	0	0	0	0
Washington	13	13	-2.0%	0	0	13	13	0	0	0	0
Pacific Noncontiguous	42	37	14.0%	0	0	0	0	42	37	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	42	37	14.0%	0	0	0	0	42	37	0	0
U.S. Total	1,395	1,451	-3.9%	37	104	1,161	1,153	196	194	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 July 2016 and July 2015 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	2,062	2,052	0.5%	0	0	1,962	1,933	100	119	0	0
Connecticut	734	714	2.8%	0	0	734	693	0	22	0	0
Maine	155	151	2.5%	0	0	55	53	100	98	0	0
Massachusetts	1,109	1,125	-1.4%	0	0	1,109	1,125	0	0	0	0
New Hampshire	64	62	3.2%	0	0	64	62	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	2,939	2,899	1.4%	0	0	2,344	2,298	596	600	0	0
New Jersey	763	725	5.2%	0	0	562	522	201	203	0	0
New York	1,068	1,073	-0.5%	0	0	823	832	245	241	0	0
Pennsylvania	1,109	1,101	0.7%	0	0	959	945	149	156	0	0
East North Central	143	140	2.1%	22	22	0	0	121	118	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	5	5	-13.0%	0	0	0	0	5	5	0	0
Michigan	116	112	3.4%	0	0	0	0	116	112	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	22	22	-0.9%	22	22	0	0	0	0	0	0
West North Central	364	354	3.0%	242	236	111	108	12	10	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	364	354	3.0%	242	236	111	108	12	10	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,203	2,891	11.0%	266	58	2,719	2,622	217	211	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	2,182	1,874	16.0%	266	58	1,915	1,816	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	478	460	3.7%	0	0	477	460	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	543	557	-2.4%	0	0	326	346	217	210	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	5	2	111.0%	0	0	0	0	0	0	5	2
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	5	2	111.0%	0	0	0	0	0	0	5	2
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	1	1	-1.3%	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	-1.3%	0	0	1	1	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	364	412	-12.0%	0	0	364	412	0	0	0	0
California	226	278	-19.0%	0	0	226	278	0	0	0	0
Oregon	53	51	3.0%	0	0	53	51	0	0	0	0
Washington	85	82	2.8%	0	0	85	82	0	0	0	0
Pacific Noncontiguous	245	220	11.0%	0	0	0	0	245	220	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	245	220	11.0%	0	0	0	0	245	220	0	0
U.S. Total	9,325	8,971	3.9%	530	316	7,500	7,375	1,289	1,278	5	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, July 2016 and July 2015 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	5,117	5,608	-8.8%	834	830	3,794	4,063	NM	NM	486	695
Connecticut	385	264	46.0%	0	0	385	264	0	0	0	0
Maine	2,077	2,416	-14.0%	0	0	1,591	1,719	0	1	486	695
Massachusetts	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Hampshire	1,954	2,180	-10.0%	453	463	1,501	1,717	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	535	557	-4.0%	381	367	NM	NM	NM	NM	0	0
Middle Atlantic	1,218	1,314	-7.3%	0	0	684	806	0	0	534	508
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	786	933	-16.0%	0	0	684	806	0	0	102	127
Pennsylvania	432	381	14.0%	0	0	0	0	0	0	432	381
East North Central	2,713	2,983	-9.1%	562	560	1,166	1,421	0	0	985	1,002
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,706	1,585	7.6%	0	NM	1,109	988	0	0	597	597
Ohio	192	257	-25.0%	0	0	NM	NM	0	0	135	198
Wisconsin	815	1,141	-29.0%	562	560	0	374	0	0	253	206
West North Central	1,029	1,073	-4.1%	204	193	538	587	50	40	237	254
Iowa	0	1	-63.0%	0	0	0	0	0	1	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	982	1,034	-5.0%	204	193	538	587	3	0	237	254
Missouri	47	39	20.0%	0	0	0	0	47	39	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	10,188	12,925	-21.0%	2,054	2,355	2,886	3,704	NM	NM	5,229	6,845
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	1,262	2,049	-38.0%	0	0	577	1,279	0	0	685	769
Georgia	2,388	3,934	-39.0%	0	0	635	645	0	0	1,753	3,289
Maryland	77	83	-6.5%	0	0	0	0	NM	NM	58	62
North Carolina	1,405	1,509	-7.0%	0	0	861	908	0	0	544	602
South Carolina	2,242	2,256	-0.7%	331	354	390	440	0	0	1,521	1,462
Virginia	2,815	3,093	-9.0%	1,723	2,001	423	431	0	0	669	661
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,383	3,501	-3.4%	NM	NM	199	209	0	0	3,170	3,287
Alabama	2,077	2,151	-3.5%	NM	NM	199	209	0	0	1,865	1,937
Kentucky	146	147	-0.5%	0	0	0	0	0	0	146	147
Mississippi	716	748	-4.3%	0	0	0	0	0	0	716	748
Tennessee	443	455	-2.5%	0	0	0	0	0	0	443	455
West South Central	3,316	3,577	-7.3%	154	268	122	0	0	0	3,041	3,309
Arkansas	599	713	-16.0%	0	0	0	0	0	0	599	713
Louisiana	1,671	1,813	-7.8%	0	0	0	0	0	0	1,671	1,813
Oklahoma	102	104	-2.6%	0	0	0	0	0	0	102	104
Texas	944	947	-0.3%	154	268	122	0	0	0	668	679
Mountain	692	861	-20.0%	0	0	468	446	0	0	223	415
Arizona	325	296	9.8%	0	0	325	296	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	0	0
Idaho	268	457	-41.0%	0	0	80	80	0	0	188	377
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	6,187	7,457	-17.0%	482	419	4,104	5,026	0	0	1,600	2,012
California	4,213	5,126	-18.0%	0	0	3,824	4,706	0	0	389	420
Oregon	522	924	-43.0%	0	0	NM	319	0	0	242	604
Washington	1,452	1,408	3.1%	482	419	0	0	0	0	969	988
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	33,842	39,299	-14.0%	4,304	4,630	13,961	16,262	72	80	15,505	18,327

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 July 2016 and July 2015 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	35,404	35,925	-1.4%	5,480	5,252	26,188	25,767	NM	171	3,682	4,735
Connecticut	2,623	1,524	72.0%	0	0	2,623	1,501	0	NM	0	0
Maine	15,466	16,711	-7.4%	0	0	11,775	11,950	NM	NM	3,682	4,735
Massachusetts	1,024	1,187	-14.0%	0	0	1,024	1,187	0	0	0	0
New Hampshire	12,564	12,990	-3.3%	2,746	2,931	9,818	10,059	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	3,727	3,513	6.1%	2,734	2,321	947	1,070	NM	NM	0	0
Middle Atlantic	8,268	8,206	0.8%	0	0	4,700	4,919	0	0	3,568	3,286
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	5,552	5,655	-1.8%	0	0	4,696	4,903	0	0	855	752
Pennsylvania	2,716	2,551	6.5%	0	0	NM	NM	0	0	2,712	2,535
East North Central	17,747	19,058	-6.9%	3,329	2,807	7,810	9,137	NM	7	6,608	7,107
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	10,453	10,526	-0.7%	NM	NM	6,425	6,437	0	7	4,028	4,081
Ohio	1,288	1,715	-25.0%	0	0	376	379	0	0	912	1,335
Wisconsin	6,006	6,817	-12.0%	3,328	2,806	1,009	2,321	NM	NM	1,668	1,691
West North Central	6,308	6,671	-5.4%	1,244	1,193	3,427	3,696	221	162	1,416	1,620
Iowa	NM	NM	NM	0	0	0	0	NM	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	6,104	6,515	-6.3%	1,244	1,193	3,427	3,696	17	6	1,416	1,620
Missouri	202	151	33.0%	0	0	0	0	202	151	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	68,308	80,552	-15.0%	12,489	12,447	16,990	23,640	129	129	38,700	44,336
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	8,088	13,942	-42.0%	0	0	3,358	9,012	0	0	4,730	4,931
Georgia	20,107	25,361	-21.0%	0	0	4,128	4,126	0	0	15,979	21,235
Maryland	510	550	-7.3%	0	0	0	0	129	129	381	421
North Carolina	8,890	9,543	-6.8%	0	0	5,374	5,498	0	0	3,516	4,045
South Carolina	14,409	14,458	-0.3%	2,207	2,299	2,473	2,757	0	0	9,729	9,403
Virginia	16,303	16,696	-2.4%	10,283	10,148	1,656	2,246	0	0	4,364	4,302
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	22,295	22,385	-0.4%	NM	NM	1,331	1,256	0	0	20,902	21,113
Alabama	13,665	13,795	-0.9%	NM	NM	1,331	1,256	0	0	12,272	12,524
Kentucky	1,009	1,078	-6.4%	0	0	0	0	0	0	1,009	1,078
Mississippi	4,759	4,619	3.0%	0	1	0	0	0	0	4,759	4,618
Tennessee	2,862	2,893	-1.1%	0	0	0	0	0	0	2,862	2,893
West South Central	21,979	23,132	-5.0%	245	1,364	765	399	0	0	20,969	21,369
Arkansas	4,234	4,815	-12.0%	0	0	0	0	0	0	4,234	4,815
Louisiana	11,747	11,528	1.9%	0	0	0	0	0	0	11,747	11,528
Oklahoma	668	684	-2.5%	0	0	0	0	0	0	668	684
Texas	5,331	6,105	-13.0%	245	1,364	765	399	0	0	4,321	4,342
Mountain	5,693	5,522	3.1%	0	0	2,777	2,712	0	0	2,915	2,810
Arizona	1,923	1,833	4.9%	0	0	1,923	1,833	0	0	0	0
Colorado	NM	432	NM	0	0	NM	432	0	0	0	0
Idaho	3,125	3,009	3.9%	0	0	451	446	0	0	2,674	2,562
Montana	242	247	-2.3%	0	0	0	0	0	0	242	247
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	38,857	44,931	-14.0%	2,635	2,404	25,700	30,553	0	0	10,522	11,974
California	26,530	31,187	-15.0%	0	0	23,940	28,565	0	0	2,589	2,622
Oregon	3,604	5,399	-33.0%	0	0	1,759	1,988	0	0	1,845	3,411
Washington	8,723	8,346	4.5%	2,635	2,404	0	0	0	0	6,087	5,941
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	224,858	246,381	-8.7%	25,484	25,483	89,688	102,079	405	469	109,282	118,350

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 - July 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
July	171,686	30,986	859	137,434	20,648	679	34,252	10,339	180

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, July 2016 and 2015

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	July 2016	July 2015	Percentage Change	July 2016	July 2015	Percentage Change	July 2016	July 2015	Percentage Change
New England	1,803	1,392	29.6%	4,578	3,274	39.8%	0	0	--
Connecticut	W	W	W	1,606	1,178	36.3%	0	0	--
Maine	0	0	--	W	W	W	0	0	--
Massachusetts	W	W	W	1,883	1,209	55.8%	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	49	-8.5%	0	0	--
Middle Atlantic	W	7,170	W	5,199	4,641	12.0%	W	W	W
New Jersey	781	942	-17.1%	688	680	1.1%	0	0	--
New York	W	481	W	3,260	2,734	19.2%	0	0	--
Pennsylvania	W	5,748	W	1,252	1,227	2.0%	W	W	W
East North Central	39,129	34,108	14.7%	1,022	1,116	-8.4%	211	151	39.5%
Illinois	8,573	7,614	12.6%	70	80	-12.8%	0	0	--
Indiana	10,604	10,035	5.7%	94	117	-19.7%	0	0	--
Michigan	5,781	6,692	-13.6%	297	323	-7.9%	W	W	W
Ohio	9,928	5,685	74.6%	355	361	-1.7%	W	W	W
Wisconsin	4,242	4,081	4.0%	206	235	-12.2%	W	W	W
West North Central	30,529	25,023	22.0%	1,566	1,661	-5.7%	0	0	--
Iowa	7,901	4,687	68.6%	144	160	-10.3%	0	0	--
Kansas	4,400	3,518	25.1%	690	675	2.2%	0	0	--
Minnesota	3,897	4,236	-8.0%	122	131	-6.9%	0	0	--
Missouri	8,898	8,163	9.0%	386	405	-4.7%	0	0	--
Nebraska	W	2,381	W	140	214	-34.4%	0	0	--
North Dakota	1,806	W	W	38	41	-5.4%	0	0	--
South Dakota	W	W	W	46	35	30.1%	0	0	--
South Atlantic	29,698	27,867	6.6%	11,889	11,333	4.9%	W	W	W
Delaware	W	W	W	434	210	106.8%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	5,296	6,074	-12.8%	5,160	5,617	-8.1%	129	163	-21.1%
Georgia	5,063	4,788	5.7%	819	873	-6.1%	0	0	--
Maryland	1,128	1,346	-16.2%	785	700	12.1%	0	0	--
North Carolina	5,762	5,245	9.9%	1,181	1,095	7.9%	0	0	--
South Carolina	5,682	4,995	13.8%	687	716	-4.1%	0	0	--
Virginia	1,771	1,835	-3.5%	2,678	1,999	34.0%	0	0	--
West Virginia	W	W	W	144	123	17.2%	W	W	W
East South Central	15,537	15,815	-1.8%	1,897	2,006	-5.5%	W	W	W
Alabama	4,316	4,086	5.6%	339	399	-15.0%	0	0	--
Kentucky	7,251	7,408	-2.1%	241	258	-6.8%	W	W	W
Mississippi	1,037	1,325	-21.7%	576	580	-0.7%	0	0	--
Tennessee	2,933	2,997	-2.1%	742	769	-3.6%	0	0	--
West South Central	26,832	25,295	6.1%	1,855	1,949	-4.8%	W	W	W
Arkansas	5,110	3,493	46.3%	W	W	W	0	0	--
Louisiana	2,844	3,398	-16.3%	431	445	-3.0%	W	W	W
Oklahoma	5,664	4,206	34.7%	W	W	W	0	0	--
Texas	13,214	14,198	-6.9%	1,153	1,232	-6.4%	0	0	--
Mountain	20,846	19,622	6.2%	356	401	-11.1%	W	W	W
Arizona	3,864	3,797	1.8%	127	134	-5.2%	0	0	--
Colorado	4,996	5,628	-11.2%	109	W	W	0	0	--
Idaho	0	0	--	W	W	W	0	0	--
Montana	W	W	W	W	W	W	W	W	W
Nevada	W	1,186	W	W	14	W	0	0	--
New Mexico	W	W	W	29	34	-15.7%	0	0	--
Utah	5,056	3,647	38.6%	42	47	-10.1%	0	0	--
Wyoming	4,019	3,242	24.0%	26	33	-19.8%	0	0	--
Pacific Contiguous	W	W	W	330	335	-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	96	102	-5.7%	0	0	--
Pacific Noncontiguous	W	W	W	2,294	2,348	-2.3%	0	0	--
Alaska	W	W	W	34	89	-61.7%	0	0	--
Hawaii	W	W	W	2,260	2,259	0.0%	0	0	--
U.S. Total	171,686	158,596	8.3%	30,986	29,064	6.6%	859	1,065	-19.4%

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

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

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**July 2016**	**July 2015**	**Percentage Change**	**July 2016**	**July 2015**	**July 2016**	**July 2015**
Coal (Thousand Tons)							
New England	1,803	1,392	29.6%	W	W	W	W
Middle Atlantic	W	7,170	W	0	0	W	7,170
East North Central	39,129	34,108	14.7%	24,883	24,066	14,246	10,042
West North Central	30,529	25,023	22.0%	30,529	25,023	0	0
South Atlantic	29,698	27,867	6.6%	27,349	25,353	2,349	2,514
East South Central	15,537	15,815	-1.8%	15,537	15,815	0	0
West South Central	26,832	25,295	6.1%	17,790	15,564	9,042	9,731
Mountain	20,846	19,622	6.2%	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	**171,686**	**158,596**	**8.3%**	**137,434**	**125,879**	**34,252**	**32,716**
Petroleum Liquids (Thousand Barrels)							
New England	4,578	3,274	39.8%	688	670	3,890	2,604
Middle Atlantic	5,199	4,641	12.0%	2,013	1,755	3,186	2,886
East North Central	1,022	1,116	-8.4%	725	820	298	296
West North Central	1,566	1,661	-5.7%	1,544	1,635	22	26
South Atlantic	11,889	11,333	4.9%	9,663	9,414	2,226	1,919
East South Central	1,897	2,006	-5.5%	W	W	W	W
West South Central	1,855	1,949	-4.8%	1,370	1,415	485	534
Mountain	356	401	-11.1%	W	371	W	29
Pacific Contiguous	330	335	-1.7%	227	W	102	W
Pacific Noncontiguous	2,294	2,348	-2.3%	W	W	W	W
U.S. Total	**30,986**	**29,064**	**6.6%**	**20,648**	**20,442**	**10,339**	**8,623**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	W	W	W	0	0	W	W
East North Central	211	151	39.5%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	129	163	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	**859**	**1,065**	**-19.4%**	**W**	**909**	**W**	**156**

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 - July 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
July	73,480	93,420	4,787	171,686

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 - July 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
July	1,138,678	59,400	2.11	40.53	1.28	78.6	8,993	1,460	11.82	72.81	0.37	58.8
Year to Date												
2014	9,460,425	486,348	2.36	45.93	1.32	93.4	104,023	17,248	21.65	130.65	0.45	68.2
2015	8,620,999	445,141	2.25	43.65	1.31	97.0	87,864	14,503	12.77	77.48	0.53	63.1
2016	6,670,942	343,961	2.13	41.36	1.38	89.7	57,877	9,568	8.96	54.23	0.43	67.4
Rolling 12 Months Ending in July												
2015	15,755,297	813,353	2.31	44.71	1.31	100.4	156,262	25,769	W	W	0.51	79.7
2016	12,927,793	668,686	2.16	41.71	1.33	97.8	118,776	19,577	9.29	56.47	0.46	82.2

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

Notes:
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 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2006 - July 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
July	10,031	355	1.47	41.45	5.14	72.8	1,184,999	1,147,156	2.97	3.07	90.6	2.56
Year to Date												
2014	82,431	2,911	2.03	57.60	5.66	83.9	4,836,856	4,706,728	5.59	5.75	89.4	3.50
2015	78,010	2,751	1.96	55.66	5.22	82.6	5,736,149	5,548,364	3.49	3.61	89.9	2.77
2016	67,011	2,383	1.37	38.65	5.35	74.4	6,164,485	5,966,310	2.65	2.74	89.8	2.39
Rolling 12 Months Ending in July												
2015	142,889	5,034	1.94	55.14	5.31	90.6	9,578,579	9,273,059	3.79	3.91	89.9	W
2016	124,649	4,411	W	W	5.34	82.9	10,607,042	10,261,116	2.75	2.84	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 - July 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
July	848,156	43,919	2.17	42.00	1.15	80.4	7,128	1,144	11.54	71.91	0.34	67.0
Year to Date												
2014	6,812,759	346,688	2.37	46.65	1.22	93.1	57,426	9,495	21.65	130.97	0.40	70.9
2015	6,513,232	334,593	2.27	44.16	1.20	100.6	55,192	9,052	12.42	75.73	0.47	72.1
2016	5,071,478	259,772	2.17	42.40	1.24	92.6	43,750	7,163	8.81	53.81	0.39	75.7
Rolling 12 Months Ending in July												
2015	11,765,283	602,634	2.34	45.58	1.20	103.0	96,123	15,718	14.55	89.03	0.48	83.2
2016	9,777,974	502,233	2.20	42.77	1.21	100.9	78,462	12,834	9.13	55.81	0.42	80.0

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

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

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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2006 - July 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
July	9,587	340	1.43	40.50	5.10	104.6	567,857	549,780	3.20	3.31	94.5	2.62
Year to Date												
2014	69,885	2,459	1.96	55.77	5.68	115.9	2,184,810	2,130,781	5.61	5.76	96.9	3.26
2015	65,786	2,313	1.88	53.51	5.20	122.8	2,631,219	2,547,041	3.75	3.88	95.6	2.74
2016	58,365	2,068	1.23	34.70	5.32	97.9	2,951,871	2,856,263	2.92	3.01	95.7	2.47
Rolling 12 Months Ending in July												
2015	119,695	4,203	1.84	52.45	5.29	131.1	4,322,958	4,188,856	4.08	4.21	96.0	2.86
2016	108,229	3,814	1.41	40.05	5.30	113.6	4,983,002	4,820,148	3.04	3.15	95.2	2.51

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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 Glossary for definitions.
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Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2006 - July 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
July	277,383	14,883	1.90	35.38	1.71	75.5	1,805	306	12.98	76.52	0.45	56.1
Year to Date												
2014	2,483,540	132,055	2.29	43.04	1.61	96.8	45,113	7,512	21.73	130.72	0.46	76.7
2015	1,994,571	105,562	2.17	41.05	1.64	91.7	29,652	4,956	13.41	80.41	0.48	58.8
2016	1,505,480	79,965	1.96	36.89	1.85	85.3	13,029	2,226	9.45	55.41	0.46	65.4
Rolling 12 Months Ending in July												
2015	3,754,981	200,106	2.19	41.04	1.62	97.5	56,313	9,424	W	W	0.47	89.8
2016	2,978,970	158,843	1.99	37.33	1.74	94.3	37,881	6,344	W	W	0.45	115.1

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

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- 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 - July 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
July	223	8	W	W	5.67	12.1	551,262	533,518	2.67	2.76	94.3	W
Year to Date												
2014	8,027	286	2.47	69.95	5.39	68.8	2,215,130	2,152,531	5.75	5.92	92.2	W
2015	8,151	291	2.42	67.80	5.06	61.9	2,679,225	2,589,785	3.26	3.37	93.7	W
2016	6,232	226	2.50	68.87	5.44	59.2	2,781,747	2,692,129	2.35	2.43	93.4	W
Rolling 12 Months Ending in July												
2015	13,905	493	W	W	5.14	66.3	4,518,635	4,371,926	3.49	3.61	93.5	W
2016	12,632	459	W	W	5.48	66.2	4,879,786	4,719,501	2.43	2.51	93.5	W

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

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

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2006 - July 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
July	0	0	--	--	--	0.0	0	0	--	--	--	0.0
Year to Date												
2014	2,825	126	W	W	2.36	18.0	0	0	--	--	--	0.0
2015	1,703	77	W	W	2.42	14.4	0	0	--	--	--	0.0
2016	434	19	W	W	2.92	4.5	0	0	--	--	--	0.0
Rolling 12 Months Ending in July												
2015	2,974	132	W	W	2.57	14.8	0	0	--	--	--	0.0
2016	1,170	51	W	W	2.88	6.7	0	0	--	--	--	0.0

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

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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2006 - July 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
July	0	0	--	--	--	0.0	691	667	W	W	5.6	W
Year to Date												
2014	0	0	--	--	--	0.0	2,941	2,913	W	W	4.3	W
2015	0	0	--	--	--	0.0	3,344	3,292	W	W	4.5	W
2016	0	0	--	--	--	0.0	4,815	4,697	W	W	6.2	W
Rolling 12 Months Ending in July												
2015	0	0	--	--	--	0.0	6,252	6,174	W	W	5.0	W
2016	0	0	--	--	--	0.0	7,970	7,776	W	W	6.0	W

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

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2006 - July 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
July	13,139	597	2.77	61.02	1.36	48.3	60	10	10.18	62.12	1.02	4.7
Year to Date												
2014	161,301	7,480	W	W	1.33	66.2	1,484	240	18.78	115.95	1.39	15.3
2015	111,493	4,910	W	W	1.57	46.4	3,020	495	13.57	82.78	1.80	32.1
2016	93,551	4,206	W	W	1.48	46.3	1,098	180	9.32	56.95	1.29	15.4
Rolling 12 Months Ending in July												
2015	232,059	10,480	W	W	1.44	57.1	3,826	628	W	W	1.75	26.6
2016	169,679	7,559	W	W	1.52	45.8	2,433	398	W	W	1.47	19.9

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

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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2006 - July 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
July	222	8	W	W	5.94	8.1	65,190	63,191	W	W	59.6	W
Year to Date												
2014	4,519	166	W	W	5.79	18.0	433,975	420,504	W	W	63.6	W
2015	4,073	147	W	W	5.92	15.2	422,361	408,245	W	W	60.9	W
2016	2,414	88	W	W	5.87	12.6	426,052	413,221	W	W	58.9	W
Rolling 12 Months Ending in July												
2015	9,290	338	W	W	5.89	21.3	730,734	706,102	W	W	61.1	W
2016	3,788	138	W	W	5.92	11.0	736,284	713,692	W	W	59.4	W

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	158	107	48.0%	20	46	137	60	0	0	2	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	7	4	59.0%	0	0	5	3	0	0	2	1
Massachusetts	132	57	130.0%	0	0	132	57	0	0	0	0
New Hampshire	20	46	-56.0%	20	46	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	1,941	2,248	-14.0%	0	0	1,917	2,206	0	0	25	42
New Jersey	64	56	15.0%	0	0	64	56	0	0	0	0
New York	59	95	-37.0%	0	0	43	62	0	0	16	33
Pennsylvania	1,818	2,098	-13.0%	0	0	1,810	2,088	0	0	8	10
East North Central	12,589	14,897	-15.0%	7,799	9,830	4,606	4,814	0	1	184	252
Illinois	3,683	4,493	-18.0%	976	1,184	2,573	3,134	0	0	134	175
Indiana	2,227	2,725	-18.0%	2,100	2,465	127	260	0	0	0	0
Michigan	2,249	3,160	-29.0%	2,212	3,127	37	32	0	1	0	0
Ohio	2,552	2,467	3.5%	670	1,059	1,870	1,389	0	0	12	19
Wisconsin	1,878	2,052	-8.5%	1,841	1,994	0	0	0	0	37	59
West North Central	10,764	11,562	-6.9%	10,642	11,430	0	0	0	4	121	127
Iowa	1,562	2,009	-22.0%	1,440	1,882	0	0	0	0	121	127
Kansas	1,400	1,337	4.7%	1,400	1,337	0	0	0	0	0	0
Minnesota	1,036	1,367	-24.0%	1,036	1,367	0	0	0	0	0	0
Missouri	3,276	3,429	-4.5%	3,276	3,425	0	0	0	4	0	0
Nebraska	1,245	1,208	3.1%	1,245	1,208	0	0	0	0	0	0
North Dakota	2,076	2,184	-5.0%	2,076	2,184	0	0	0	0	0	0
South Dakota	169	28	504.0%	169	28	0	0	0	0	0	0
South Atlantic	8,119	9,366	-13.0%	7,087	7,978	981	1,265	0	0	51	123
Delaware	15	0	--	0	0	15	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,548	1,731	-11.0%	1,497	1,630	51	101	0	0	0	0
Georgia	1,503	1,692	-11.0%	1,489	1,684	0	0	0	0	13	9
Maryland	394	597	-34.0%	0	0	377	573	0	0	17	25
North Carolina	985	1,099	-10.0%	985	1,099	0	0	0	0	0	0
South Carolina	717	1,037	-31.0%	717	1,020	0	0	0	0	0	17
Virginia	679	759	-11.0%	604	659	57	69	0	0	18	30
West Virginia	2,279	2,451	-7.0%	1,796	1,886	480	522	0	0	3	43
East South Central	6,273	6,577	-4.6%	5,844	6,119	329	330	0	0	100	128
Alabama	1,733	1,871	-7.4%	1,733	1,871	0	0	0	0	0	0
Kentucky	2,937	3,026	-3.0%	2,937	3,026	0	0	0	0	0	0
Mississippi	453	590	-23.0%	124	260	329	330	0	0	0	0
Tennessee	1,150	1,090	5.6%	1,050	962	0	0	0	0	100	128
West South Central	10,888	12,683	-14.0%	5,191	6,692	5,693	5,987	0	0	5	5
Arkansas	1,172	1,295	-9.5%	953	1,092	214	198	0	0	5	5
Louisiana	618	1,094	-44.0%	520	700	98	395	0	0	0	0
Oklahoma	922	1,512	-39.0%	832	1,436	90	76	0	0	0	0
Texas	8,176	8,782	-6.9%	2,885	3,464	5,291	5,318	0	0	0	0
Mountain	8,038	9,372	-14.0%	7,167	8,380	827	946	0	0	44	46
Arizona	1,307	1,837	-29.0%	1,307	1,837	0	0	0	0	0	0
Colorado	1,316	1,737	-24.0%	1,316	1,737	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	783	901	-13.0%	0	0	783	901	0	0	0	0
Nevada	44	166	-73.0%	0	121	44	45	0	0	0	0
New Mexico	1,129	1,165	-3.1%	1,129	1,165	0	0	0	0	0	0
Utah	1,237	1,234	0.3%	1,193	1,188	0	0	0	0	44	46
Wyoming	2,222	2,332	-4.7%	2,222	2,332	0	0	0	0	0	0
Pacific Contiguous	496	534	-7.2%	154	179	276	301	0	0	66	54
California	66	54	22.0%	0	0	0	0	0	0	66	54
Oregon	154	179	-14.0%	154	179	0	0	0	0	0	0
Washington	276	301	-8.4%	0	0	276	301	0	0	0	0
Pacific Noncontiguous	134	77	74.0%	15	16	118	61	0	0	0	0
Alaska	15	16	-3.5%	15	16	0	0	0	0	0	0
Hawaii	118	61	95.0%	0	0	118	61	0	0	0	0
U.S. Total	59,400	67,423	-12.0%	43,919	50,671	14,883	15,969	0	5	597	778

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	804	1,372	-41.0%	73	405	723	944	0	0	8	23
Connecticut	85	251	-66.0%	0	0	85	251	0	0	0	0
Maine	48	72	-33.0%	0	0	40	49	0	0	8	23
Massachusetts	598	645	-7.3%	0	0	598	645	0	0	0	0
New Hampshire	73	405	-82.0%	73	405	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	10,885	16,897	-36.0%	0	0	10,655	16,633	0	0	229	264
New Jersey	346	565	-39.0%	0	0	346	565	0	0	0	0
New York	250	582	-57.0%	0	0	88	395	0	0	162	187
Pennsylvania	10,288	15,750	-35.0%	0	0	10,221	15,672	0	0	68	78
East North Central	75,767	99,351	-24.0%	47,107	61,892	27,270	35,848	0	20	1,391	1,592
Illinois	21,583	31,665	-32.0%	5,909	6,424	14,678	24,107	0	0	996	1,134
Indiana	16,566	21,142	-22.0%	15,476	19,513	1,090	1,629	0	0	0	0
Michigan	11,177	15,798	-29.0%	11,042	15,613	125	145	0	20	10	20
Ohio	16,774	17,794	-5.7%	5,260	7,679	11,377	9,966	0	0	137	149
Wisconsin	9,668	12,952	-25.0%	9,420	12,664	0	0	0	0	248	288
West North Central	63,667	79,493	-20.0%	62,919	78,693	0	0	19	57	728	742
Iowa	9,605	12,459	-23.0%	8,877	11,717	0	0	0	0	728	742
Kansas	7,468	10,473	-29.0%	7,468	10,473	0	0	0	0	0	0
Minnesota	6,152	10,506	-41.0%	6,152	10,491	0	0	0	14	0	0
Missouri	19,869	24,254	-18.0%	19,850	24,211	0	0	19	43	0	0
Nebraska	7,173	7,660	-6.4%	7,173	7,660	0	0	0	0	0	0
North Dakota	12,629	13,725	-8.0%	12,629	13,725	0	0	0	0	0	0
South Dakota	770	416	85.0%	770	416	0	0	0	0	0	0
South Atlantic	52,611	64,525	-18.0%	46,169	56,428	5,908	7,253	0	0	534	844
Delaware	172	152	14.0%	0	0	172	152	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	8,123	11,526	-30.0%	7,934	11,158	189	368	0	0	0	0
Georgia	9,345	11,635	-20.0%	9,262	11,506	0	0	0	0	83	129
Maryland	2,523	3,878	-35.0%	0	0	2,387	3,689	0	0	136	190
North Carolina	5,719	8,508	-33.0%	5,719	8,508	0	0	0	0	0	0
South Carolina	5,135	6,954	-26.0%	5,069	6,855	0	0	0	0	66	99
Virginia	4,509	4,570	-1.3%	4,090	3,941	239	428	0	0	180	201
West Virginia	17,084	17,302	-1.3%	14,095	14,461	2,920	2,616	0	0	69	225
East South Central	36,391	44,657	-19.0%	33,908	41,855	1,724	1,931	0	0	759	870
Alabama	9,018	11,873	-24.0%	9,018	11,873	0	0	0	0	0	0
Kentucky	20,533	23,702	-13.0%	20,533	23,702	0	0	0	0	0	0
Mississippi	2,095	2,995	-30.0%	371	1,064	1,724	1,931	0	0	0	0
Tennessee	4,745	6,087	-22.0%	3,986	5,217	0	0	0	0	759	870
West South Central	53,733	75,339	-29.0%	26,262	39,933	27,436	35,360	0	0	35	46
Arkansas	6,910	8,490	-19.0%	5,739	6,940	1,136	1,504	0	0	35	46
Louisiana	3,735	6,307	-41.0%	2,887	3,535	848	2,772	0	0	0	0
Oklahoma	5,350	10,651	-50.0%	4,758	9,946	592	705	0	0	0	0
Texas	37,738	49,891	-24.0%	12,878	19,512	24,860	30,380	0	0	0	0
Mountain	47,421	60,154	-21.0%	42,713	54,639	4,570	5,364	0	0	138	150
Arizona	7,741	12,514	-38.0%	7,741	12,514	0	0	0	0	0	0
Colorado	8,599	11,320	-24.0%	8,599	11,320	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	4,306	5,092	-15.0%	0	0	4,306	5,092	0	0	0	0
Nevada	468	731	-36.0%	204	459	264	272	0	0	0	0
New Mexico	5,996	7,105	-16.0%	5,996	7,105	0	0	0	0	0	0
Utah	7,336	8,881	-17.0%	7,197	8,731	0	0	0	0	138	150
Wyoming	12,975	14,510	-11.0%	12,975	14,510	0	0	0	0	0	0
Pacific Contiguous	2,082	2,964	-30.0%	499	714	1,199	1,872	0	0	383	378
California	383	378	1.3%	0	0	0	0	0	0	383	378
Oregon	499	714	-30.0%	499	714	0	0	0	0	0	0
Washington	1,199	1,872	-36.0%	0	0	1,199	1,872	0	0	0	0
Pacific Noncontiguous	602	389	55.0%	123	33	480	356	0	0	0	0
Alaska	123	33	274.0%	123	33	0	0	0	0	0	0
Hawaii	480	356	35.0%	0	0	480	356	0	0	0	0
U.S. Total	343,961	445,141	-23.0%	259,772	334,593	79,965	105,562	19	77	4,206	4,910

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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, July 2016 and 2015
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	3	3	4.7%	1	0	2	3	0	0	1	0
Connecticut	1	1	-50.0%	0	0	1	1	0	0	0	0
Maine	2	2	17.0%	0	0	2	2	0	0	1	0
Massachusetts	0	0	-100.0%	0	0	0	0	0	0	0	0
New Hampshire	1	0	150.0%	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	66	125	-47.0%	1	37	65	87	0	0	1	0
New Jersey	1	11	-89.0%	0	0	1	11	0	0	0	0
New York	52	46	14.0%	1	37	51	9	0	0	0	0
Pennsylvania	13	67	-81.0%	0	0	12	67	0	0	0	0
East North Central	66	95	-31.0%	37	77	28	14	0	0	1	4
Illinois	5	7	-20.0%	2	4	3	3	0	0	0	0
Indiana	11	22	-49.0%	11	22	0	0	0	0	0	0
Michigan	14	14	-1.5%	13	12	0	0	0	0	0	1
Ohio	32	48	-33.0%	6	37	25	9	0	0	1	2
Wisconsin	3	4	-16.0%	3	3	0	1	0	0	0	0
West North Central	24	29	-19.0%	24	29	0	0	0	0	0	0
Iowa	4	9	-59.0%	4	9	0	0	0	0	0	0
Kansas	4	3	37.0%	4	3	0	0	0	0	0	0
Minnesota	4	2	87.0%	4	2	0	0	0	0	0	0
Missouri	10	12	-20.0%	10	12	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	3	3	-20.0%	3	3	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	429	421	1.7%	394	305	27	64	0	0	8	52
Delaware	2	2	-8.2%	0	0	2	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	291	15	NM	287	15	5	0	0	0	0	0
Georgia	21	9	143.0%	20	6	0	0	0	0	2	3
Maryland	9	44	-80.0%	0	0	9	44	0	0	0	0
North Carolina	12	11	6.0%	12	11	0	0	0	0	0	0
South Carolina	13	15	-15.0%	9	6	0	0	0	0	4	10
Virginia	64	309	-79.0%	50	252	12	18	0	0	2	40
West Virginia	17	16	3.2%	17	16	0	0	0	0	0	0
East South Central	44	63	-30.0%	44	62	0	0	0	0	0	1
Alabama	2	3	-31.0%	2	3	0	0	0	0	0	0
Kentucky	19	23	-15.0%	19	23	0	0	0	0	0	0
Mississippi	2	27	-94.0%	2	27	0	0	0	0	0	0
Tennessee	21	9	117.0%	21	8	0	0	0	0	0	1
West South Central	13	15	-14.0%	7	8	6	7	0	0	0	0
Arkansas	1	3	-71.0%	0	2	1	1	0	0	0	0
Louisiana	2	3	-5.7%	2	2	0	1	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	9	9	-1.9%	4	4	5	5	0	0	0	0
Mountain	25	23	7.1%	21	23	3	0	0	0	0	0
Arizona	8	5	72.0%	8	5	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	3	0	--	0	0	3	0	0	0	0	0
Nevada	4	3	24.0%	3	3	1	0	0	0	0	0
New Mexico	3	10	-67.0%	3	10	0	0	0	0	0	0
Utah	1	2	-42.0%	1	2	0	0	0	0	0	0
Wyoming	5	3	63.0%	5	3	0	0	0	0	0	0
Pacific Contiguous	2	2	-9.5%	0	1	2	1	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	1	-100.0%	0	1	0	0	0	0	0	0
Washington	2	1	51.0%	0	0	2	1	0	0	0	0
Pacific Noncontiguous	789	669	18.0%	616	485	173	184	0	0	0	0
Alaska	0	2	-100.0%	0	2	0	0	0	0	0	0
Hawaii	789	667	18.0%	616	483	173	184	0	0	0	0
U.S. Total	1,460	1,446	1.0%	1,144	1,028	306	360	0	0	10	57

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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) July 2016 and 2015
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	201	1,240	-84.0%	72	61	126	1,148	0	0	3	32
Connecticut	26	286	-91.0%	0	0	26	286	0	0	0	0
Maine	17	486	-97.0%	0	0	14	455	0	0	3	32
Massachusetts	144	378	-62.0%	65	5	78	373	0	0	0	0
New Hampshire	6	79	-92.0%	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	419	2,765	-85.0%	17	999	393	1,761	0	0	9	5
New Jersey	8	62	-87.0%	0	0	8	62	0	0	0	0
New York	200	2,014	-90.0%	17	999	177	1,010	0	0	7	5
Pennsylvania	210	688	-69.0%	0	0	207	688	0	0	3	0
East North Central	556	696	-20.0%	351	495	185	175	0	0	19	26
Illinois	78	55	42.0%	17	18	62	37	0	0	0	0
Indiana	113	190	-40.0%	113	190	0	0	0	0	0	0
Michigan	110	114	-3.5%	104	106	0	0	0	0	5	8
Ohio	231	298	-23.0%	93	145	124	137	0	0	14	16
Wisconsin	24	39	-38.0%	24	36	0	1	0	0	0	1
West North Central	210	240	-13.0%	210	240	0	0	0	0	0	0
Iowa	55	42	30.0%	55	42	0	0	0	0	0	0
Kansas	26	52	-49.0%	26	52	0	0	0	0	0	0
Minnesota	14	15	-6.7%	14	15	0	0	0	0	0	0
Missouri	67	93	-28.0%	67	93	0	0	0	0	0	0
Nebraska	2	0	--	2	0	0	0	0	0	0	0
North Dakota	42	31	37.0%	42	31	0	0	0	0	0	0
South Dakota	2	6	-61.0%	2	6	0	0	0	0	0	0
South Atlantic	2,410	3,397	-29.0%	1,884	2,335	383	632	0	0	143	430
Delaware	47	61	-23.0%	0	0	47	61	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	583	424	38.0%	578	421	5	2	0	0	0	0
Georgia	187	214	-12.0%	120	101	31	75	0	0	36	38
Maryland	123	201	-39.0%	0	0	123	201	0	0	0	0
North Carolina	196	394	-50.0%	135	361	61	33	0	0	0	0
South Carolina	196	343	-43.0%	105	257	0	7	0	0	92	79
Virginia	953	1,645	-42.0%	822	1,081	116	250	0	0	16	314
West Virginia	124	117	6.1%	124	114	0	2	0	0	0	0
East South Central	289	372	-22.0%	274	343	10	27	0	0	5	2
Alabama	51	83	-39.0%	40	57	10	27	0	0	0	0
Kentucky	116	115	1.3%	116	115	0	0	0	0	0	0
Mississippi	18	43	-60.0%	18	43	0	0	0	0	0	0
Tennessee	104	130	-20.0%	99	128	0	0	0	0	5	2
West South Central	175	238	-26.0%	133	163	42	75	0	0	0	0
Arkansas	46	55	-16.0%	34	41	12	14	0	0	0	0
Louisiana	50	82	-38.0%	48	64	2	18	0	0	0	0
Oklahoma	3	2	83.0%	3	2	0	0	0	0	0	0
Texas	76	100	-24.0%	48	57	28	43	0	0	0	0
Mountain	205	231	-11.0%	191	220	14	11	0	0	0	0
Arizona	59	66	-9.7%	59	66	0	0	0	0	0	0
Colorado	10	5	89.0%	10	5	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	11	8	46.0%	0	0	11	8	0	0	0	0
Nevada	16	18	-16.0%	13	15	3	3	0	0	0	0
New Mexico	54	73	-27.0%	54	73	0	0	0	0	0	0
Utah	16	22	-27.0%	16	22	0	0	0	0	0	0
Wyoming	40	38	3.1%	40	38	0	0	0	0	0	0
Pacific Contiguous	9	7	21.0%	0	1	9	6	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	1	-100.0%	0	1	0	0	0	0	0	0
Washington	9	6	40.0%	0	0	9	6	0	0	0	0
Pacific Noncontiguous	5,094	5,317	-4.2%	4,032	4,196	1,062	1,122	0	0	0	0
Alaska	4	6	-39.0%	4	6	0	0	0	0	0	0
Hawaii	5,091	5,311	-4.2%	4,028	4,190	1,062	1,122	0	0	0	0
U.S. Total	9,568	14,503	-34.0%	7,163	9,052	2,226	4,956	0	0	180	495

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 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	56	135	-59.0%	48	87	8	40	0	0	0	8
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	50	-100.0%	0	50	0	0	0	0	0	0
Michigan	39	33	18.0%	39	33	0	0	0	0	0	0
Ohio	8	40	-80.0%	0	0	8	40	0	0	0	0
Wisconsin	9	11	-25.0%	9	3	0	0	0	0	0	8
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	162	169	-4.1%	154	161	0	0	0	0	8	8
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	154	161	-4.4%	154	161	0	0	0	0	0	0
Georgia	8	8	1.5%	0	0	0	0	0	0	8	8
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	12	-100.0%	0	12	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	12	-100.0%	0	12	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	137	134	2.3%	137	134	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	137	134	2.3%	137	134	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	355	451	-21.0%	340	395	8	40	0	0	8	16

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 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	607	774	-22.0%	363	437	226	291	0	0	18	47
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	162	211	-23.0%	162	211	0	0	0	0	0	0
Michigan	181	223	-19.0%	181	210	0	13	0	0	0	0
Ohio	226	278	-19.0%	0	0	226	278	0	0	0	0
Wisconsin	38	62	-38.0%	20	15	0	0	0	0	18	47
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	910	666	37.0%	840	566	0	0	0	0	70	100
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	840	566	48.0%	840	566	0	0	0	0	0	0
Georgia	70	100	-30.0%	0	0	0	0	0	0	70	100
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	359	-87.0%	47	359	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	47	359	-87.0%	47	359	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	819	952	-14.0%	819	952	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	819	952	-14.0%	819	952	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	2,383	2,751	-13.0%	2,068	2,313	226	291	0	0	88	147

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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. 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, July 2016 and 2015
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	44,584	45,056	-1.0%	619	410	43,965	44,600	0	0	0	46
Connecticut	11,076	11,315	-2.1%	0	0	11,076	11,315	0	0	0	0
Maine	3,265	1,200	172.0%	0	0	3,265	1,154	0	0	0	46
Massachusetts	20,175	21,464	-6.0%	422	339	19,753	21,125	0	0	0	0
New Hampshire	4,150	4,213	-1.5%	197	71	3,953	4,142	0	0	0	0
Rhode Island	5,918	6,864	-14.0%	0	0	5,918	6,864	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	145,862	121,097	20.0%	13,756	13,049	131,888	107,901	0	0	218	147
New Jersey	37,402	27,403	36.0%	0	0	37,402	27,403	0	0	0	0
New York	53,516	48,298	11.0%	13,756	13,049	39,695	35,185	0	0	65	64
Pennsylvania	54,944	45,396	21.0%	0	0	54,791	45,313	0	0	153	83
East North Central	95,627	64,306	49.0%	43,843	26,841	50,543	36,515	494	422	746	528
Illinois	21,386	9,850	117.0%	1,817	982	19,566	8,865	0	0	4	2
Indiana	14,587	9,103	60.0%	12,151	7,777	2,436	1,326	0	0	0	0
Michigan	24,825	15,510	60.0%	11,777	3,703	12,004	10,990	494	422	550	394
Ohio	21,947	19,317	14.0%	6,864	5,055	14,997	14,261	0	0	87	0
Wisconsin	12,882	10,527	22.0%	11,235	9,324	1,541	1,072	0	0	106	131
West North Central	21,978	21,245	3.4%	18,191	18,234	3,614	2,904	173	106	0	1
Iowa	3,555	4,149	-14.0%	3,555	4,148	0	0	0	0	0	1
Kansas	2,352	2,628	-10.0%	2,352	2,628	0	0	0	0	0	0
Minnesota	8,091	6,834	18.0%	6,266	5,674	1,823	1,155	1	4	0	0
Missouri	6,425	5,682	13.0%	4,462	3,831	1,790	1,749	172	102	0	0
Nebraska	634	966	-34.0%	634	966	0	0	0	0	0	0
North Dakota	251	60	322.0%	251	60	0	0	0	0	0	0
South Dakota	669	929	-28.0%	669	929	0	0	0	0	0	0
South Atlantic	265,226	234,881	13.0%	205,724	183,434	56,048	48,350	0	0	3,454	3,097
Delaware	8,104	6,534	24.0%	0	0	6,859	5,279	0	0	1,245	1,255
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	119,829	108,582	10.0%	108,623	103,830	11,206	4,752	0	0	0	0
Georgia	44,278	41,028	7.9%	32,983	24,523	10,601	15,386	0	0	693	1,120
Maryland	9,397	6,182	52.0%	0	0	9,182	6,160	0	0	215	22
North Carolina	28,966	25,869	12.0%	24,047	21,803	4,919	4,066	0	0	0	0
South Carolina	15,400	14,499	6.2%	12,769	12,874	2,522	1,594	0	0	108	31
Virginia	37,994	30,067	26.0%	26,949	20,214	10,403	9,184	0	0	642	669
West Virginia	1,260	2,121	-41.0%	353	191	355	1,930	0	0	551	0
East South Central	101,140	85,572	18.0%	67,188	51,184	32,726	33,746	0	0	1,226	643
Alabama	42,209	37,081	14.0%	12,890	8,848	29,319	28,234	0	0	0	0
Kentucky	8,057	6,288	28.0%	7,047	4,856	1,010	1,432	0	0	0	0
Mississippi	39,539	33,975	16.0%	37,142	29,895	2,397	4,080	0	0	0	0
Tennessee	11,335	8,227	38.0%	10,109	7,585	0	0	0	0	1,226	643
West South Central	307,670	310,811	-1.0%	107,480	99,716	146,061	156,776	0	0	54,130	54,319
Arkansas	15,589	12,214	28.0%	6,720	4,107	8,796	7,883	0	0	73	224
Louisiana	53,254	55,397	-3.9%	30,321	32,386	4,890	4,123	0	0	18,043	18,888
Oklahoma	33,686	30,393	11.0%	24,163	19,587	9,523	10,807	0	0	0	0
Texas	205,141	212,807	-3.6%	46,276	43,637	122,852	133,963	0	0	36,013	35,207
Mountain	82,929	77,145	7.5%	60,988	54,412	21,884	22,673	0	0	57	60
Arizona	35,100	33,520	4.7%	18,034	16,407	17,066	17,114	0	0	0	0
Colorado	11,016	9,445	17.0%	9,150	7,690	1,866	1,755	0	0	0	0
Idaho	2,146	2,814	-24.0%	1,729	1,779	417	1,035	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	20,899	19,331	8.1%	20,899	19,331	0	0	0	0	0	0
New Mexico	7,957	6,788	17.0%	5,569	4,362	2,387	2,427	0	0	0	0
Utah	5,812	5,237	11.0%	5,606	4,835	148	342	0	0	57	60
Wyoming	0	9	-100.0%	0	9	0	0	0	0	0	0
Pacific Contiguous	81,069	96,287	-16.0%	30,919	36,476	46,790	56,425	0	0	3,361	3,386
California	62,676	73,811	-15.0%	21,132	21,722	38,183	48,703	0	0	3,361	3,386
Oregon	10,398	11,892	-13.0%	4,981	5,398	5,417	6,493	0	0	0	0
Washington	7,996	10,585	-24.0%	4,806	9,355	3,190	1,229	0	0	0	0
Pacific Noncontiguous	1,071	1,358	-21.0%	1,071	1,358	0	0	0	0	0	0
Alaska	1,071	1,358	-21.0%	1,071	1,358	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,147,156	1,057,757	8.5%	549,780	485,114	533,518	509,889	667	528	63,191	62,227

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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) July 2016 and 2015 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	219,485	205,120	7.0%	1,065	972	218,351	203,688	0	0	69	460
Connecticut	69,415	63,454	9.4%	0	0	69,415	63,454	0	0	0	0
Maine	13,437	8,941	50.0%	0	0	13,368	8,480	0	0	69	460
Massachusetts	90,838	80,166	13.0%	761	870	90,077	79,295	0	0	0	0
New Hampshire	17,736	24,285	-27.0%	304	102	17,431	24,183	0	0	0	0
Rhode Island	28,059	28,275	-0.8%	0	0	28,059	28,275	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	681,221	610,740	12.0%	59,729	56,017	620,111	553,529	0	0	1,381	1,194
New Jersey	176,846	145,249	22.0%	0	0	176,846	145,249	0	0	0	0
New York	240,505	236,788	1.6%	59,729	56,017	180,261	180,296	0	0	515	474
Pennsylvania	263,870	228,703	15.0%	0	0	263,004	227,984	0	0	866	720
East North Central	502,550	374,053	34.0%	221,118	156,850	271,766	210,657	3,757	2,713	5,910	3,833
Illinois	76,400	39,029	96.0%	7,027	2,198	69,353	36,792	0	0	20	39
Indiana	86,117	66,241	30.0%	69,613	52,064	16,504	14,177	0	0	0	0
Michigan	141,935	90,711	56.0%	44,188	19,382	90,517	66,132	3,757	2,713	3,473	2,484
Ohio	123,266	121,165	1.7%	33,862	31,141	89,098	89,787	0	0	306	237
Wisconsin	74,832	56,908	31.0%	66,427	52,065	6,294	3,770	0	0	2,110	1,072
West North Central	100,393	75,393	33.0%	83,665	65,197	15,781	9,608	940	579	8	9
Iowa	16,935	14,019	21.0%	16,927	14,010	0	0	0	0	8	9
Kansas	8,375	7,445	13.0%	8,375	7,445	0	0	0	0	0	0
Minnesota	40,683	27,536	48.0%	32,653	23,759	8,026	3,705	3	72	0	0
Missouri	27,477	20,788	32.0%	18,786	14,378	7,754	5,903	937	507	0	0
Nebraska	2,366	2,182	8.5%	2,366	2,182	0	0	0	0	0	0
North Dakota	939	226	316.0%	939	226	0	0	0	0	0	0
South Dakota	3,618	3,199	13.0%	3,618	3,199	0	0	0	0	0	0
South Atlantic	1,411,595	1,288,687	9.5%	1,133,336	1,046,275	256,524	221,412	0	0	21,735	21,000
Delaware	35,922	33,703	6.6%	0	0	27,876	25,163	0	0	8,046	8,539
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	685,147	640,513	7.0%	629,863	613,588	55,284	26,925	0	0	0	0
Georgia	236,571	211,239	12.0%	170,748	135,284	60,121	68,831	0	0	5,702	7,123
Maryland	27,985	20,311	38.0%	0	0	26,685	20,107	0	0	1,300	203
North Carolina	174,596	156,095	12.0%	153,220	138,077	21,376	18,018	0	0	0	0
South Carolina	70,914	69,788	1.6%	57,413	62,449	12,309	6,962	0	0	1,192	377
Virginia	173,196	150,363	15.0%	121,260	95,934	47,495	49,671	0	0	4,440	4,757
West Virginia	7,264	6,677	8.8%	832	943	5,377	5,734	0	0	1,054	0
East South Central	531,305	492,633	7.9%	337,910	294,690	187,689	193,838	0	0	5,707	4,106
Alabama	224,008	218,574	2.5%	66,679	55,329	157,329	163,245	0	0	0	0
Kentucky	39,787	29,442	35.0%	36,500	25,716	3,287	3,726	0	0	0	0
Mississippi	214,287	199,042	7.7%	187,214	172,175	27,073	26,868	0	0	0	0
Tennessee	53,223	45,575	17.0%	47,516	41,470	0	0	0	0	5,707	4,106
West South Central	1,703,443	1,686,402	1.0%	529,510	480,247	819,194	850,221	0	0	354,740	355,933
Arkansas	76,113	72,004	5.7%	32,121	18,020	42,552	51,627	0	0	1,441	2,357
Louisiana	327,215	303,816	7.7%	167,763	172,429	35,085	16,571	0	0	124,366	114,816
Oklahoma	164,166	146,235	12.0%	116,210	96,836	47,956	49,399	0	0	0	0
Texas	1,135,949	1,164,347	-2.4%	213,415	192,962	693,601	732,624	0	0	228,933	238,761
Mountain	404,744	344,569	17.0%	320,609	257,466	83,671	86,764	0	0	464	338
Arizona	146,116	119,129	23.0%	91,150	63,717	54,966	55,412	0	0	0	0
Colorado	57,078	44,782	27.0%	47,795	34,457	9,283	10,324	0	0	0	0
Idaho	11,792	11,917	-1.0%	7,466	7,107	4,326	4,809	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	113,364	103,385	9.7%	113,364	103,385	0	0	0	0	0	0
New Mexico	42,687	37,121	15.0%	28,208	21,619	14,479	15,501	0	0	0	0
Utah	33,677	28,171	20.0%	32,596	27,115	617	718	0	0	464	338
Wyoming	29	65	-55.0%	29	65	0	0	0	0	0	0
Pacific Contiguous	403,646	461,230	-12.0%	161,395	179,792	219,044	260,067	0	0	23,207	21,371
California	317,291	371,661	-15.0%	112,322	125,776	181,762	224,514	0	0	23,207	21,371
Oregon	51,299	55,011	-6.7%	22,165	22,659	29,135	32,352	0	0	0	0
Washington	35,056	34,558	1.4%	26,908	31,357	8,147	3,202	0	0	0	0
Pacific Noncontiguous	7,927	9,536	-17.0%	7,927	9,536	0	0	0	0	0	0
Alaska	7,927	9,536	-17.0%	7,927	9,536	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	5,966,310	5,548,364	7.5%	2,856,263	2,547,041	2,692,129	2,589,785	4,697	3,292	413,221	408,245

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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, July 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015
New England	W	W	W	4.09	3.96	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.09	3.96	3.3%	4.09	3.96	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.93	2.35	-18.0%	--	--	1.93	2.35
New Jersey	W	3.61	W	--	--	W	3.61
New York	W	2.87	W	--	--	W	2.87
Pennsylvania	1.85	2.30	-20.0%	--	--	1.85	2.30
East North Central	2.07	2.17	-4.6%	2.17	2.25	1.92	1.98
Illinois	W	1.89	W	1.98	2.02	W	1.84
Indiana	W	W	W	2.25	2.27	W	W
Michigan	W	W	W	2.25	2.36	W	W
Ohio	2.02	W	W	1.83	2.14	2.09	W
Wisconsin	2.20	2.27	-3.1%	2.20	2.27	--	--
West North Central	1.71	1.69	1.2%	1.71	1.69	--	--
Iowa	1.63	1.62	0.6%	1.63	1.62	--	--
Kansas	1.67	1.70	-1.8%	1.67	1.70	--	--
Minnesota	2.06	1.83	13.0%	2.06	1.83	--	--
Missouri	1.86	1.88	-1.1%	1.86	1.88	--	--
Nebraska	1.35	1.33	1.5%	1.35	1.33	--	--
North Dakota	1.51	1.45	4.1%	1.51	1.45	--	--
South Dakota	2.16	2.34	-7.7%	2.16	2.34	--	--
South Atlantic	2.75	2.90	-5.2%	2.79	2.94	2.45	2.64
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.02	3.05	W	W
Georgia	2.77	2.91	-4.8%	2.77	2.91	--	--
Maryland	2.81	2.77	1.4%	--	--	2.81	2.77
North Carolina	3.10	3.50	-11.0%	3.10	3.50	--	--
South Carolina	3.06	3.52	-13.0%	3.06	3.52	--	--
Virginia	W	W	W	2.95	2.69	W	W
West Virginia	W	W	W	2.29	2.31	W	W
East South Central	W	W	W	2.23	2.35	W	W
Alabama	2.43	2.53	-4.0%	2.43	2.53	--	--
Kentucky	2.13	2.19	-2.7%	2.13	2.19	--	--
Mississippi	W	W	W	2.47	3.13	W	W
Tennessee	2.18	2.34	-6.8%	2.18	2.34	--	--
West South Central	1.90	2.11	-10.0%	2.16	2.22	1.63	1.97
Arkansas	W	W	W	2.23	2.26	W	W
Louisiana	W	W	W	2.87	3.06	W	W
Oklahoma	W	W	W	1.79	1.95	W	W
Texas	1.80	2.04	-12.0%	2.13	2.17	1.60	1.95
Mountain	W	W	W	1.98	1.95	W	W
Arizona	2.09	2.00	4.5%	2.09	2.00	--	--
Colorado	1.81	1.89	-4.2%	1.81	1.89	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	--	2.78	W	W
New Mexico	1.95	2.34	-17.0%	1.95	2.34	--	--
Utah	1.93	1.95	-1.0%	1.93	1.95	--	--
Wyoming	2.07	1.70	22.0%	2.07	1.70	--	--
Pacific Contiguous	W	W	W	2.29	2.34	W	W
California	--	--	--	--	--	--	--
Oregon	2.29	2.34	-2.1%	2.29	2.34	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.14	3.21	W	W
Alaska	3.14	3.21	-2.2%	3.14	3.21	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.11	2.20	-4.1%	2.17	2.24	1.90	2.10

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	3.02	3.60	-16.0%	4.02	3.90	2.90	3.46
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.02	3.90	3.1%	4.02	3.90	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.04	2.48	-18.0%	--	--	2.04	2.48
New Jersey	W	3.90	W	--	--	W	3.90
New York	W	3.09	W	--	--	W	3.09
Pennsylvania	W	2.42	W	--	--	W	2.42
East North Central	2.09	2.21	-5.4%	2.17	2.30	1.97	2.05
Illinois	W	1.93	W	1.96	2.02	W	1.90
Indiana	W	W	W	2.24	2.33	W	W
Michigan	W	W	W	2.25	2.44	W	W
Ohio	2.07	W	W	1.96	2.15	2.12	W
Wisconsin	2.19	2.33	-6.0%	2.19	2.33	--	--
West North Central	1.71	1.74	-1.7%	1.71	1.74	--	--
Iowa	1.61	1.64	-1.8%	1.61	1.64	--	--
Kansas	1.69	1.72	-1.7%	1.69	1.72	--	--
Minnesota	2.07	1.93	7.3%	2.07	1.93	--	--
Missouri	1.86	1.92	-3.1%	1.86	1.92	--	--
Nebraska	1.33	1.36	-2.2%	1.33	1.36	--	--
North Dakota	1.56	1.54	1.3%	1.56	1.54	--	--
South Dakota	2.23	2.20	1.4%	2.23	2.20	--	--
South Atlantic	2.76	2.96	-6.8%	2.79	3.00	2.50	2.72
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.04	3.06	W	W
Georgia	2.85	2.98	-4.4%	2.85	2.98	--	--
Maryland	2.77	2.90	-4.5%	--	--	2.77	2.90
North Carolina	3.08	3.54	-13.0%	3.08	3.54	--	--
South Carolina	3.22	3.57	-9.8%	3.22	3.57	--	--
Virginia	W	W	W	2.91	2.92	W	W
West Virginia	W	2.34	W	2.32	2.39	W	2.08
East South Central	W	W	W	2.22	2.35	W	W
Alabama	2.44	2.47	-1.2%	2.44	2.47	--	--
Kentucky	2.12	2.25	-5.8%	2.12	2.25	--	--
Mississippi	W	W	W	2.61	3.17	W	W
Tennessee	2.21	2.40	-7.9%	2.21	2.40	--	--
West South Central	1.91	2.08	-8.2%	2.16	2.18	1.64	1.95
Arkansas	W	W	W	2.21	2.26	W	W
Louisiana	W	W	W	2.79	2.89	W	W
Oklahoma	W	W	W	1.91	1.98	W	W
Texas	1.78	2.01	-11.0%	2.10	2.13	1.60	1.93
Mountain	W	W	W	1.89	1.93	W	W
Arizona	2.14	2.03	5.4%	2.14	2.03	--	--
Colorado	1.89	1.84	2.7%	1.89	1.84	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	1.95	2.73	W	W
New Mexico	1.82	2.37	-23.0%	1.82	2.37	--	--
Utah	1.96	1.96	0.0%	1.96	1.96	--	--
Wyoming	1.72	1.63	5.5%	1.72	1.63	--	--
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	3.11	3.15	W	W
Alaska	3.11	3.15	-1.3%	3.11	3.15	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.12	2.25	-5.8%	2.17	2.27	1.96	2.17

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015
New England	7.61	13.37	-43.0%	9.12	15.97	7.13	13.11
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	--	W	W	--	--	--	W
New Hampshire	9.12	15.97	-43.0%	9.12	15.97	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	W	W	10.06	14.53	W	W
New Jersey	W	W	W	--	--	W	W
New York	W	14.22	W	10.06	14.53	W	12.99
Pennsylvania	10.82	13.45	-20.0%	--	--	10.82	13.45
East North Central	11.11	13.68	-19.0%	11.08	13.82	11.15	12.90
Illinois	11.16	W	W	11.71	14.13	10.72	W
Indiana	11.17	13.35	-16.0%	11.17	13.35	--	--
Michigan	10.74	13.02	-18.0%	10.74	13.02	--	--
Ohio	11.21	12.94	-13.0%	11.25	12.99	11.21	12.75
Wisconsin	11.42	W	W	11.42	31.61	--	W
West North Central	11.16	13.26	-16.0%	11.16	13.26	--	--
Iowa	10.92	12.96	-16.0%	10.92	12.96	--	--
Kansas	11.73	13.09	-10.0%	11.73	13.09	--	--
Minnesota	11.40	13.77	-17.0%	11.40	13.77	--	--
Missouri	11.07	13.41	-17.0%	11.07	13.41	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	10.56	13.29	-21.0%	10.56	13.29	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	13.74	W	W	13.86	9.28	11.77	W
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	15.76	13.50	W	W
Georgia	10.29	12.61	-18.0%	10.29	12.61	--	--
Maryland	W	10.43	W	--	--	W	10.43
North Carolina	10.73	13.10	-18.0%	10.73	13.10	--	--
South Carolina	11.44	15.73	-27.0%	11.44	15.73	--	--
Virginia	W	W	W	6.15	8.43	W	W
West Virginia	11.09	13.60	-18.0%	11.09	13.60	--	--
East South Central	10.64	11.10	-4.1%	10.64	11.10	--	--
Alabama	12.28	13.69	-10.0%	12.28	13.69	--	--
Kentucky	10.62	13.18	-19.0%	10.62	13.18	--	--
Mississippi	10.81	8.90	21.0%	10.81	8.90	--	--
Tennessee	10.46	12.22	-14.0%	10.46	12.22	--	--
West South Central	10.60	12.06	-12.0%	10.84	12.46	10.33	11.59
Arkansas	W	W	W	--	11.90	W	W
Louisiana	10.14	W	W	10.14	13.32	--	W
Oklahoma	12.60	--	--	12.60	--	--	--
Texas	W	W	W	11.13	12.28	W	W
Mountain	W	W	W	11.40	16.99	W	W
Arizona	11.09	16.97	-35.0%	11.09	16.97	--	--
Colorado	10.87	--	--	10.87	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	--	W	--	--	W	--
Nevada	W	W	W	11.78	15.98	W	W
New Mexico	11.60	19.59	-41.0%	11.60	19.59	--	--
Utah	13.93	12.81	8.7%	13.93	12.81	--	--
Wyoming	11.05	12.39	-11.0%	11.05	12.39	--	--
Pacific Contiguous	W	W	W	--	16.49	W	W
California	--	--	--	--	--	--	--
Oregon	--	16.49	--	--	16.49	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	10.18	14.05	W	W
Alaska	--	18.63	--	--	18.63	--	--
Hawaii	W	W	W	10.18	14.04	W	W
U.S. Total	11.83	12.55	-5.7%	11.54	12.47	12.98	12.81

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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) July 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	8.59	W	W	9.58	11.45	7.95	W
Connecticut	8.77	W	W	--	--	8.77	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	14.42	W	9.59	22.01	W	14.31
New Hampshire	9.54	W	W	9.54	10.48	--	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	12.69	W	8.40	9.91	W	14.61
New Jersey	W	16.84	W	--	--	W	16.84
New York	11.99	12.31	-2.6%	8.40	9.91	12.30	14.75
Pennsylvania	W	14.03	W	--	--	W	14.03
East North Central	10.33	14.29	-28.0%	9.97	14.21	11.01	14.51
Illinois	10.40	W	W	10.21	14.68	10.45	W
Indiana	9.96	14.31	-30.0%	9.96	14.31	--	--
Michigan	9.93	13.58	-27.0%	9.93	13.58	--	--
Ohio	10.36	14.19	-27.0%	9.12	13.84	11.29	14.56
Wisconsin	13.59	W	W	13.59	16.78	--	W
West North Central	9.76	13.37	-27.0%	9.76	13.37	--	--
Iowa	10.15	13.46	-25.0%	10.15	13.46	--	--
Kansas	9.99	13.05	-23.0%	9.99	13.05	--	--
Minnesota	10.53	14.06	-25.0%	10.53	14.06	--	--
Missouri	9.84	13.46	-27.0%	9.84	13.46	--	--
Nebraska	10.53	--	--	10.53	--	--	--
North Dakota	8.81	13.33	-34.0%	8.81	13.33	--	--
South Dakota	7.54	12.44	-39.0%	7.54	12.44	--	--
South Atlantic	10.00	13.83	-28.0%	10.07	13.46	9.62	15.34
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	13.31	14.97	W	W
Georgia	8.83	17.31	-49.0%	9.12	19.28	7.68	14.11
Maryland	8.39	11.40	-26.0%	--	--	8.39	11.40
North Carolina	W	W	W	9.53	14.39	W	W
South Carolina	10.60	15.12	-30.0%	10.60	15.12	--	--
Virginia	W	12.98	W	7.92	11.64	W	19.24
West Virginia	10.64	W	W	10.64	14.75	--	W
East South Central	W	W	W	9.68	13.06	W	W
Alabama	W	W	W	9.24	13.51	W	W
Kentucky	9.92	14.04	-29.0%	9.92	14.04	--	--
Mississippi	8.64	10.48	-18.0%	8.64	10.48	--	--
Tennessee	9.73	12.90	-25.0%	9.73	12.90	--	--
West South Central	10.03	13.70	-27.0%	9.86	13.70	10.56	13.70
Arkansas	W	W	W	9.53	14.29	W	W
Louisiana	W	W	W	9.54	12.69	W	W
Oklahoma	11.93	15.19	-21.0%	11.93	15.19	--	--
Texas	W	W	W	10.30	14.36	W	W
Mountain	W	W	W	10.71	15.63	W	W
Arizona	10.71	14.65	-27.0%	10.71	14.65	--	--
Colorado	9.46	15.24	-38.0%	9.46	15.24	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	11.77	17.11	W	W
New Mexico	10.50	16.37	-36.0%	10.50	16.37	--	--
Utah	11.02	15.10	-27.0%	11.02	15.10	--	--
Wyoming	10.83	15.67	-31.0%	10.83	15.67	--	--
Pacific Contiguous	W	W	W	--	16.49	W	W
California	--	--	--	--	--	--	--
Oregon	--	16.49	--	--	16.49	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	7.91	11.98	W	W
Alaska	12.41	19.46	-36.0%	12.41	19.46	--	--
Hawaii	W	W	W	7.91	11.97	W	W
U.S. Total	8.95	12.74	-30.0%	8.81	12.42	9.45	13.41

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	W	W	W	1.39	1.23	W	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.32	1.63	-19.0%	1.32	1.63	--	--
Ohio	W	W	W	--	--	W	W
Wisconsin	1.68	1.78	-5.6%	1.68	1.78	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.52	2.17	-30.0%	1.52	2.17	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.52	2.17	-30.0%	1.52	2.17	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	1.71	--	--	1.71	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	1.71	--	--	1.71	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.36	1.89	-28.0%	1.36	1.89	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.36	1.89	-28.0%	1.36	1.89	--	--
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	1.43	1.86	W	W

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 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	1.17	1.36	W	W
Illinois	--	--	--	--	--	--	--
Indiana	0.96	0.94	2.1%	0.96	0.94	--	--
Michigan	1.30	W	W	1.30	1.80	--	W
Ohio	W	W	W	--	--	W	W
Wisconsin	1.70	1.63	4.3%	1.70	1.63	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.30	2.32	-44.0%	1.30	2.32	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.30	2.32	-44.0%	1.30	2.32	--	--
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	1.16	1.91	-39.0%	1.16	1.91	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.16	1.91	-39.0%	1.16	1.91	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.35	1.94	-30.0%	1.23	1.88	2.50	2.42

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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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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, July 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2016	July 2015	Percentage Change	July 2016	July 2015	July 2016	July 2015
New England	W	2.50	W	3.53	3.28	W	2.49
Connecticut	3.06	2.42	26.0%	--	--	3.06	2.42
Maine	W	W	W	--	--	W	W
Massachusetts	2.78	2.50	11.0%	3.31	3.15	2.76	2.49
New Hampshire	W	W	W	4.00	3.90	W	W
Rhode Island	2.84	2.33	22.0%	--	--	2.84	2.33
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.19	2.18	0.5%	2.68	2.54	2.13	2.13
New Jersey	2.02	1.99	1.5%	--	--	2.02	1.99
New York	2.68	2.49	7.6%	2.68	2.54	2.68	2.47
Pennsylvania	1.80	1.95	-7.7%	--	--	1.80	1.95
East North Central	2.92	2.85	2.5%	3.00	3.08	2.84	2.67
Illinois	2.96	W	W	3.18	3.57	2.94	W
Indiana	W	W	W	3.25	3.07	W	W
Michigan	2.94	3.22	-8.7%	3.05	3.59	2.84	3.09
Ohio	2.65	2.16	23.0%	2.54	2.41	2.70	2.08
Wisconsin	W	W	W	2.95	3.21	W	W
West North Central	W	3.23	W	3.02	3.25	W	3.10
Iowa	2.69	2.90	-7.2%	2.69	2.90	--	--
Kansas	3.17	3.38	-6.2%	3.17	3.38	--	--
Minnesota	W	W	W	3.16	3.35	W	W
Missouri	W	W	W	3.03	3.24	W	W
Nebraska	3.19	3.53	-9.6%	3.19	3.53	--	--
North Dakota	2.89	2.92	-1.0%	2.89	2.92	--	--
South Dakota	2.72	3.56	-24.0%	2.72	3.56	--	--
South Atlantic	3.37	3.79	-11.0%	3.45	3.93	2.90	2.91
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.65	4.33	-16.0%	3.66	4.35	3.51	3.07
Georgia	3.21	3.29	-2.4%	3.26	3.32	3.06	3.23
Maryland	2.84	3.58	-21.0%	--	--	2.84	3.58
North Carolina	W	W	W	3.72	4.07	W	W
South Carolina	W	W	W	3.27	3.52	W	W
Virginia	W	W	W	2.74	2.69	W	W
West Virginia	3.00	1.94	55.0%	2.75	2.88	3.25	1.85
East South Central	2.97	3.03	-2.0%	2.94	3.01	3.06	3.08
Alabama	W	3.15	W	3.06	3.18	W	3.14
Kentucky	W	W	W	3.22	3.81	W	W
Mississippi	W	W	W	2.90	2.98	W	W
Tennessee	2.72	2.72	0.0%	2.72	2.72	--	--
West South Central	2.90	3.03	-4.3%	2.97	3.16	2.84	2.92
Arkansas	W	W	W	3.30	3.25	W	W
Louisiana	3.00	W	W	3.02	3.36	2.86	W
Oklahoma	W	W	W	2.91	3.12	W	W
Texas	2.87	2.96	-3.0%	2.92	3.02	2.84	2.93
Mountain	3.21	3.34	-3.9%	3.26	3.33	2.87	3.35
Arizona	W	3.40	W	3.58	3.52	W	3.17
Colorado	W	W	W	3.07	3.21	W	W
Idaho	2.83	2.85	-0.7%	2.83	2.85	--	--
Montana	--	--	--	--	--	--	--
Nevada	3.23	3.28	-1.5%	3.23	3.28	--	--
New Mexico	3.15	3.71	-15.0%	3.15	3.71	--	--
Utah	W	W	W	2.87	2.97	W	W
Wyoming	--	5.12	--	--	5.12	--	--
Pacific Contiguous	3.18	3.24	-1.9%	3.41	3.37	2.98	3.12
California	3.36	3.42	-1.8%	3.72	3.77	3.12	3.21
Oregon	W	W	W	2.48	2.60	W	W
Washington	W	W	W	3.33	3.09	W	W
Pacific Noncontiguous	6.76	5.16	31.0%	6.76	5.16	--	--
Alaska	6.76	5.16	31.0%	6.76	5.16	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.98	3.12	-4.5%	3.20	3.46	2.67	2.71

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	July 2016 YTD	July 2015 YTD	Percentage Change	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	3.09	5.02	-38.0%	3.35	4.49	3.09	5.02
Connecticut	3.69	5.38	-31.0%	--	--	3.69	5.38
Maine	W	W	W	--	--	W	W
Massachusetts	2.70	4.95	-45.0%	3.23	4.56	2.70	4.95
New Hampshire	W	W	W	3.64	3.91	W	W
Rhode Island	W	4.18	W	--	--	W	4.18
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.18	3.60	-39.0%	2.63	4.53	2.13	3.48
New Jersey	2.09	3.63	-42.0%	--	--	2.09	3.63
New York	2.59	4.09	-37.0%	2.63	4.53	2.57	3.93
Pennsylvania	1.84	3.05	-40.0%	--	--	1.84	3.05
East North Central	2.39	3.04	-21.0%	2.53	3.19	2.28	2.93
Illinois	2.55	3.33	-23.0%	2.82	4.05	2.52	3.28
Indiana	W	W	W	2.60	3.14	W	W
Michigan	2.44	3.40	-28.0%	2.65	3.48	2.34	3.37
Ohio	2.05	2.47	-17.0%	2.13	2.71	2.02	2.39
Wisconsin	W	W	W	2.55	3.40	W	W
West North Central	2.67	W	W	2.68	3.58	2.58	W
Iowa	2.41	3.19	-24.0%	2.41	3.19	--	--
Kansas	3.20	3.79	-16.0%	3.20	3.79	--	--
Minnesota	W	W	W	2.79	3.92	W	W
Missouri	W	W	W	2.59	3.40	W	W
Nebraska	2.94	3.59	-18.0%	2.94	3.59	--	--
North Dakota	2.46	2.82	-13.0%	2.46	2.82	--	--
South Dakota	2.19	3.18	-31.0%	2.19	3.18	--	--
South Atlantic	3.24	4.23	-23.0%	3.35	4.37	2.48	3.18
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.59	4.43	-19.0%	3.62	4.45	2.56	3.00
Georgia	2.69	3.39	-21.0%	2.73	3.40	2.56	3.36
Maryland	2.90	4.54	-36.0%	--	--	2.90	4.54
North Carolina	W	W	W	3.55	5.15	W	W
South Carolina	W	W	W	3.12	3.71	W	W
Virginia	W	3.95	W	2.74	4.50	W	2.36
West Virginia	W	W	W	2.31	2.95	W	W
East South Central	2.57	3.11	-17.0%	2.60	3.11	2.50	3.11
Alabama	2.59	3.17	-18.0%	2.64	3.18	2.57	3.17
Kentucky	W	W	W	2.89	3.94	W	W
Mississippi	W	W	W	2.59	3.04	W	W
Tennessee	2.34	2.89	-19.0%	2.34	2.89	--	--
West South Central	2.36	2.99	-21.0%	2.46	3.11	2.28	2.90
Arkansas	W	W	W	2.69	3.50	W	W
Louisiana	2.37	3.10	-24.0%	2.41	3.11	2.20	2.95
Oklahoma	W	W	W	2.49	3.16	W	W
Texas	2.33	2.94	-21.0%	2.45	3.05	2.29	2.91
Mountain	2.71	W	W	2.72	3.44	2.67	W
Arizona	W	3.54	W	2.88	3.68	W	3.08
Colorado	W	3.93	W	2.88	3.82	W	4.43
Idaho	2.57	2.96	-13.0%	2.57	2.96	--	--
Montana	--	--	--	--	--	--	--
Nevada	2.64	3.32	-20.0%	2.64	3.32	--	--
New Mexico	2.66	3.29	-19.0%	2.66	3.29	--	--
Utah	W	W	W	2.35	3.06	W	W
Wyoming	7.04	5.13	37.0%	7.04	5.13	--	--
Pacific Contiguous	2.73	3.32	-18.0%	3.04	3.58	2.47	3.08
California	2.84	3.46	-18.0%	3.24	3.80	2.56	3.18
Oregon	W	W	W	2.16	2.88	W	W
Washington	W	W	W	3.09	3.37	W	W
Pacific Noncontiguous	6.52	5.37	21.0%	6.52	5.37	--	--
Alaska	6.52	5.37	21.0%	6.52	5.37	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.67	3.53	-24.0%	2.92	3.75	2.35	3.26

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

Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, July 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	158	0.82	7.0	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	7	0.79	8.3	0	--	--	0	--	--
Massachusetts	132	0.49	6.7	0	--	--	0	--	--
New Hampshire	20	2.63	8.2	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,641	3.15	10.2	0	--	--	0	--	--
New Jersey	64	1.50	9.0	0	--	--	0	--	--
New York	59	2.34	7.7	0	--	--	0	--	--
Pennsylvania	1,518	3.25	10.3	0	--	--	0	--	--
East North Central	5,699	3.00	9.9	6,891	0.24	4.8	0	--	--
Illinois	799	3.79	20.0	2,884	0.20	4.6	0	--	--
Indiana	2,010	2.89	8.4	217	0.21	4.7	0	--	--
Michigan	214	2.08	8.0	2,035	0.28	4.8	0	--	--
Ohio	2,552	3.00	9.0	0	--	--	0	--	--
Wisconsin	124	2.47	8.0	1,754	0.25	5.2	0	--	--
West North Central	100	3.19	9.0	8,672	0.26	5.0	1,992	0.86	9.6
Iowa	41	3.40	7.5	1,520	0.24	5.0	0	--	--
Kansas	18	2.97	12.7	1,382	0.29	4.9	0	--	--
Minnesota	0	--	--	1,036	0.34	5.9	0	--	--
Missouri	40	3.07	8.9	3,235	0.22	4.7	0	--	--
Nebraska	0	--	--	1,245	0.27	5.3	0	--	--
North Dakota	0	--	--	84	0.41	5.1	1,992	0.86	9.6
South Dakota	0	--	--	169	0.34	5.2	0	--	--
South Atlantic	7,338	2.28	10.2	747	0.34	4.9	0	--	--
Delaware	15	2.62	7.8	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,548	2.23	8.5	0	--	--	0	--	--
Georgia	755	2.34	7.6	747	0.34	4.9	0	--	--
Maryland	394	2.51	9.5	0	--	--	0	--	--
North Carolina	985	1.72	9.7	0	--	--	0	--	--
South Carolina	717	1.76	8.7	0	--	--	0	--	--
Virginia	679	1.06	15.3	0	--	--	0	--	--
West Virginia	2,245	3.01	11.7	0	--	--	0	--	--
East South Central	3,938	2.52	9.0	2,006	0.24	5.0	329	0.40	13.8
Alabama	772	1.26	9.5	961	0.24	5.1	0	--	--
Kentucky	2,476	2.99	9.0	460	0.28	5.2	0	--	--
Mississippi	0	--	--	124	0.23	5.4	329	0.40	13.8
Tennessee	690	2.25	8.2	460	0.22	4.6	0	--	--
West South Central	52	1.25	25.4	7,126	0.28	5.3	3,710	1.01	16.8
Arkansas	5	0.71	8.4	1,167	0.25	5.2	0	--	--
Louisiana	0	--	--	345	0.27	5.2	274	0.48	14.6
Oklahoma	48	1.31	27.5	874	0.25	4.9	0	--	--
Texas	0	--	--	4,740	0.29	5.4	3,436	1.06	17.0
Mountain	2,523	0.63	14.5	5,515	0.51	9.2	0	--	--
Arizona	591	0.59	10.6	716	0.59	10.3	0	--	--
Colorado	209	0.46	10.7	1,107	0.31	5.6	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	783	0.67	9.9	0	--	--
Nevada	0	--	--	44	0.26	6.1	0	--	--
New Mexico	571	0.81	24.5	558	0.82	22.5	0	--	--
Utah	1,153	0.60	12.9	85	1.00	9.7	0	--	--
Wyoming	0	--	--	2,222	0.45	7.2	0	--	--
Pacific Contiguous	66	0.49	11.1	429	0.35	7.9	0	--	--
California	66	0.49	11.1	0	--	--	0	--	--
Oregon	0	--	--	154	0.23	4.2	0	--	--
Washington	0	--	--	275	0.42	9.9	0	--	--
Pacific Noncontiguous	0	--	--	118	0.16	4.4	10	0.15	8.6
Alaska	0	--	--	0	--	--	10	0.15	8.6
Hawaii	0	--	--	118	0.16	4.4	0	--	--
U.S. Total	21,516	2.39	10.4	31,504	0.31	5.8	6,041	0.94	14.2

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 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, July 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	2.63	8.2	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	20	2.63	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	3,016	2.84	8.5	4,784	0.25	4.9	0	--	--
Illinois	176	3.49	10.0	800	0.21	4.7	0	--	--
Indiana	1,883	2.83	8.3	217	0.21	4.7	0	--	--
Michigan	177	2.19	8.2	2,035	0.28	4.8	0	--	--
Ohio	670	2.93	8.7	0	--	--	0	--	--
Wisconsin	110	2.68	7.8	1,731	0.25	5.1	0	--	--
West North Central	58	3.04	10.1	8,592	0.26	5.0	1,992	0.86	9.6
Iowa	0	--	--	1,440	0.24	5.0	0	--	--
Kansas	18	2.97	12.7	1,382	0.29	4.9	0	--	--
Minnesota	0	--	--	1,036	0.34	5.9	0	--	--
Missouri	40	3.07	8.9	3,235	0.22	4.7	0	--	--
Nebraska	0	--	--	1,245	0.27	5.3	0	--	--
North Dakota	0	--	--	84	0.41	5.1	1,992	0.86	9.6
South Dakota	0	--	--	169	0.34	5.2	0	--	--
South Atlantic	6,339	2.19	10.1	747	0.34	4.9	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,497	2.29	8.4	0	--	--	0	--	--
Georgia	742	2.36	7.6	747	0.34	4.9	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	985	1.72	9.7	0	--	--	0	--	--
South Carolina	717	1.76	8.7	0	--	--	0	--	--
Virginia	604	1.05	16.1	0	--	--	0	--	--
West Virginia	1,796	2.82	11.4	0	--	--	0	--	--
East South Central	3,838	2.57	9.0	2,006	0.24	5.0	0	--	--
Alabama	772	1.26	9.5	961	0.24	5.1	0	--	--
Kentucky	2,476	2.99	9.0	460	0.28	5.2	0	--	--
Mississippi	0	--	--	124	0.23	5.4	0	--	--
Tennessee	590	2.51	8.2	460	0.22	4.6	0	--	--
West South Central	0	--	--	4,309	0.25	5.1	882	1.12	18.2
Arkansas	0	--	--	953	0.25	5.1	0	--	--
Louisiana	0	--	--	246	0.26	5.2	274	0.48	14.6
Oklahoma	0	--	--	832	0.24	4.8	0	--	--
Texas	0	--	--	2,277	0.25	5.2	608	1.45	20.0
Mountain	2,479	0.63	14.6	4,687	0.49	9.1	0	--	--
Arizona	591	0.59	10.6	716	0.59	10.3	0	--	--
Colorado	209	0.46	10.7	1,107	0.31	5.6	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	571	0.81	24.5	558	0.82	22.5	0	--	--
Utah	1,109	0.60	13.0	85	1.00	9.7	0	--	--
Wyoming	0	--	--	2,222	0.45	7.2	0	--	--
Pacific Contiguous	0	--	--	154	0.23	4.2	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	154	0.23	4.2	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	10	0.15	8.6
Alaska	0	--	--	0	--	--	10	0.15	8.6
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	15,751	2.19	10.2	25,279	0.30	5.8	2,884	0.94	12.1

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 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, July 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	137	0.50	6.8	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	5	0.79	8.3	0	--	--	0	--	--
Massachusetts	132	0.49	6.7	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,617	3.17	10.2	0	--	--	0	--	--
New Jersey	64	1.50	9.0	0	--	--	0	--	--
New York	43	2.70	7.9	0	--	--	0	--	--
Pennsylvania	1,510	3.25	10.3	0	--	--	0	--	--
East North Central	2,571	3.17	11.7	2,035	0.20	4.6	0	--	--
Illinois	537	3.94	26.4	2,035	0.20	4.6	0	--	--
Indiana	127	3.66	9.3	0	--	--	0	--	--
Michigan	37	1.51	6.8	0	--	--	0	--	--
Ohio	1,870	3.02	9.1	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	947	2.93	10.9	0	--	--	0	--	--
Delaware	15	2.62	7.8	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	51	0.75	10.4	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	377	2.54	9.0	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	57	0.90	9.1	0	--	--	0	--	--
West Virginia	447	3.83	13.1	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	329	0.40	13.8
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	329	0.40	13.8
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	48	1.31	27.5	2,817	0.32	5.6	2,828	0.98	16.4
Arkansas	0	--	--	214	0.24	5.3	0	--	--
Louisiana	0	--	--	98	0.30	5.3	0	--	--
Oklahoma	48	1.31	27.5	42	0.36	5.3	0	--	--
Texas	0	--	--	2,463	0.33	5.6	2,828	0.98	16.4
Mountain	0	--	--	827	0.65	9.6	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	783	0.67	9.9	0	--	--
Nevada	0	--	--	44	0.26	6.1	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	275	0.42	9.9	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	275	0.42	9.9	0	--	--
Pacific Noncontiguous	0	--	--	118	0.16	4.4	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	118	0.16	4.4	0	--	--
U.S. Total	5,320	3.05	11.1	6,073	0.33	6.0	3,157	0.94	16.2

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 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, July 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, July 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	2	0.79	8.3	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	2	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	25	1.56	8.8	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	16	1.36	7.4	0	--	--	0	--	--
Pennsylvania	8	2.00	11.9	0	--	--	0	--	--
East North Central	112	3.21	9.0	72	0.26	4.7	0	--	--
Illinois	86	3.70	8.5	49	0.25	4.2	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	12	3.06	11.0	0	--	--	0	--	--
Wisconsin	14	0.50	9.7	23	0.28	5.6	0	--	--
West North Central	41	3.40	7.5	80	0.18	4.4	0	--	--
Iowa	41	3.40	7.5	80	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	51	1.58	13.9	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	13	1.08	10.3	0	--	--	0	--	--
Maryland	17	1.78	21.2	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	18	1.90	11.6	0	--	--	0	--	--
West Virginia	3	0.92	9.0	0	--	--	0	--	--
East South Central	100	0.88	7.8	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	100	0.88	7.8	0	--	--	0	--	--
West South Central	5	0.71	8.4	0	--	--	0	--	--
Arkansas	5	0.71	8.4	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	44	0.45	9.4	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	44	0.45	9.4	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	66	0.49	11.1	0	--	--	0	--	--
California	66	0.49	11.1	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	445	1.65	9.5	152	0.22	4.5	0	--	--

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W = Withheld to avoid disclosure of individual company data.

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 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 - July 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
July	153,952	129,233	83,301	651	367,137
Year to Date					
2014	832,313	781,168	576,118	4,600	2,194,198
2015	828,308	784,901	557,114	4,549	2,174,872
2016	807,172	778,266	544,312	4,388	2,134,139
Rolling 12 Months Ending in July					
2015	1,403,203	1,355,891	978,573	7,707	3,745,375
2016	1,378,748	1,351,784	945,761	7,498	3,683,791

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
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Sources: U.S. Energy Information Administration, Form EIA-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 - July 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
July	19,521	13,727	6,022	63	39,332
Year to Date					
2014	103,355	83,580	40,959	482	228,375
2015	104,323	83,061	38,418	468	226,271
2016	100,678	79,958	36,183	415	217,234
Rolling 12 Months Ending in July					
2015	177,147	144,735	68,314	797	390,992
2016	173,721	140,790	63,853	726	379,090

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Sources: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
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Table 5.3. Average Price of Electricity to Ultimate Customers: Total by End-Use Sector, 2006 - July 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
July	12.68	10.62	7.23	9.69	10.71
Year to Date					
2014	12.42	10.70	7.11	10.48	10.41
2015	12.59	10.58	6.90	10.29	10.40
2016	12.47	10.27	6.65	9.46	10.18
Rolling 12 Months Ending in July					
2015	12.62	10.67	6.98	10.34	10.44
2016	12.60	10.42	6.75	9.69	10.29

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	4,538	4,350	4,825	4,926	1,502	1,591	45	49	10,911	10,916
Connecticut	1,239	1,207	1,183	1,226	287	307	15	18	2,723	2,757
Maine	373	381	343	365	221	286	0	0	937	1,032
Massachusetts	1,992	1,891	2,338	2,393	624	638	28	29	4,982	4,952
New Hampshire	403	374	409	400	176	172	0	0	988	946
Rhode Island	349	320	369	359	73	67	2	2	793	748
Vermont	183	177	184	183	121	121	0	0	489	481
Middle Atlantic	14,349	13,129	14,913	14,704	6,234	6,434	331	329	35,828	34,596
New Jersey	3,783	3,496	3,773	3,659	623	640	26	26	8,205	7,822
New York	5,371	4,847	7,222	7,099	1,495	1,513	238	234	14,326	13,693
Pennsylvania	5,196	4,785	3,918	3,946	4,116	4,282	68	69	13,297	13,082
East North Central	20,296	18,170	17,486	17,164	16,324	16,430	53	48	54,160	51,812
Illinois	5,274	4,751	4,771	4,688	3,906	3,742	48	44	13,999	13,225
Indiana	3,390	3,149	2,302	2,273	3,623	3,951	2	2	9,316	9,375
Michigan	3,758	3,332	3,660	3,627	2,613	2,425	0	0	10,031	9,384
Ohio	5,600	4,897	4,570	4,398	4,064	4,229	3	2	14,237	13,527
Wisconsin	2,275	2,041	2,183	2,178	2,119	2,083	0	0	6,577	6,302
West North Central	10,794	10,401	9,633	9,659	7,520	7,757	4	3	27,951	27,820
Iowa	1,419	1,418	1,087	1,122	1,798	1,722	0	0	4,304	4,261
Kansas	1,702	1,632	1,570	1,539	933	928	0	0	4,205	4,099
Minnesota	2,073	2,029	2,153	2,162	1,777	1,778	2	2	6,005	5,970
Missouri	3,810	3,596	3,015	3,018	1,064	1,425	2	2	7,891	8,040
Nebraska	1,052	1,000	892	897	1,073	1,083	0	0	3,017	2,979
North Dakota	338	345	495	495	630	578	0	0	1,462	1,417
South Dakota	401	381	420	428	246	243	0	0	1,067	1,053
South Atlantic	40,082	37,789	30,752	29,585	12,108	12,468	121	117	83,064	79,959
Delaware	502	485	387	380	213	226	0	0	1,102	1,091
District of Columbia	265	274	794	799	37	19	35	32	1,131	1,124
Florida	13,776	12,647	9,232	8,763	1,445	1,476	9	9	24,461	22,894
Georgia	6,766	6,439	4,696	4,664	2,727	2,863	15	15	14,203	13,980
Maryland	3,022	2,730	2,839	2,853	338	341	48	44	6,246	5,968
North Carolina	6,349	6,303	4,870	4,716	2,482	2,326	1	1	13,702	13,346
South Carolina	3,622	3,470	2,320	2,229	2,369	2,551	0	0	8,311	8,250
Virginia	4,771	4,535	4,892	4,494	1,436	1,555	15	16	11,113	10,601
West Virginia	1,010	906	723	687	1,062	1,111	0	0	2,794	2,705
East South Central	13,015	12,503	9,015	8,777	8,387	8,908	0	0	30,417	30,189
Alabama	3,656	3,575	2,310	2,275	2,820	3,084	0	0	8,786	8,934
Kentucky	2,759	2,623	1,870	1,803	2,278	2,495	0	0	6,907	6,920
Mississippi	2,133	2,020	1,405	1,378	1,430	1,437	0	0	4,968	4,835
Tennessee	4,468	4,285	3,429	3,323	1,859	1,892	0	0	9,756	9,500
West South Central	26,144	24,612	18,947	19,415	14,844	15,257	17	17	59,951	59,300
Arkansas	2,073	1,959	1,237	1,215	1,491	1,476	0	0	4,801	4,650
Louisiana	3,580	3,452	2,451	2,412	2,834	2,818	1	1	8,866	8,683
Oklahoma	2,948	2,749	2,009	1,968	1,512	1,510	0	0	6,468	6,227
Texas	17,543	16,452	13,250	13,820	9,008	9,452	15	16	39,816	39,740
Mountain	11,676	10,764	9,340	8,868	8,014	7,842	11	11	29,040	27,485
Arizona	4,682	4,233	3,077	2,924	1,348	1,360	1	1	9,107	8,517
Colorado	2,070	1,819	1,963	1,811	1,375	1,386	5	5	5,413	5,021
Idaho	705	704	541	557	1,200	1,143	0	0	2,446	2,404
Montana	375	393	414	432	378	400	0	0	1,167	1,225
Nevada	1,736	1,676	1,038	949	1,365	1,252	1	1	4,140	3,877
New Mexico	778	707	902	852	659	651	0	0	2,339	2,210
Utah	1,113	1,038	1,094	1,036	832	814	5	5	3,043	2,893
Wyoming	215	194	312	307	857	836	0	0	1,385	1,336
Pacific Contiguous	12,685	13,315	13,825	14,839	7,928	8,277	68	75	34,506	36,506
California	8,897	9,164	10,027	10,788	4,706	4,965	65	73	23,695	24,989
Oregon	1,381	1,584	1,380	1,443	1,094	1,116	2	2	3,857	4,145
Washington	2,407	2,567	2,418	2,608	2,128	2,197	1	0	6,954	7,372
Pacific Noncontiguous	372	385	496	511	440	436	0	0	1,308	1,333
Alaska	142	143	221	223	111	109	0	0	474	475
Hawaii	231	242	275	288	329	327	0	0	834	858
U.S. Total	153,952	145,418	129,233	128,448	83,301	85,400	651	650	367,137	359,916

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	26,563	28,182	30,134	30,855	9,924	10,511	324	351	66,945	69,900
Connecticut	7,243	7,761	7,334	7,578	1,857	1,932	104	119	16,538	17,391
Maine	2,680	2,732	2,307	2,270	1,658	1,907	0	0	6,645	6,909
Massachusetts	11,124	11,913	14,642	15,053	3,993	4,268	204	215	29,962	31,449
New Hampshire	2,558	2,699	2,568	2,623	1,142	1,123	0	0	6,268	6,444
Rhode Island	1,759	1,823	2,119	2,157	452	465	16	17	4,346	4,461
Vermont	1,199	1,255	1,165	1,175	822	816	0	0	3,186	3,246
Middle Atlantic	75,892	80,440	90,694	92,561	41,104	42,086	2,232	2,303	209,921	217,390
New Jersey	16,523	17,311	22,098	22,582	4,016	4,195	178	182	42,815	44,270
New York	28,420	29,491	43,574	44,273	9,946	10,110	1,602	1,664	83,542	85,539
Pennsylvania	30,949	33,638	25,022	25,706	27,142	27,781	453	457	83,565	87,581
East North Central	108,453	109,938	106,873	107,560	108,034	110,977	342	358	323,702	328,833
Illinois	26,568	26,548	29,290	29,458	24,407	24,758	301	317	80,566	81,080
Indiana	18,944	19,759	13,897	14,141	24,722	26,458	13	13	57,575	60,371
Michigan	19,839	19,618	22,426	22,574	17,759	17,508	3	3	60,027	59,702
Ohio	30,402	31,616	27,499	27,665	27,407	28,523	26	26	85,335	87,830
Wisconsin	12,700	12,398	13,761	13,722	13,738	13,731	0	0	40,200	39,850
West North Central	59,986	60,814	59,039	59,469	48,597	50,915	26	27	167,648	171,226
Iowa	8,230	8,191	7,028	7,029	12,324	12,144	0	0	27,582	27,363
Kansas	7,816	7,916	8,959	8,975	6,162	6,266	0	0	22,937	23,156
Minnesota	12,616	12,717	13,467	13,620	11,381	12,004	14	15	37,479	38,355
Missouri	20,063	20,683	17,801	18,030	7,041	9,209	12	13	44,917	47,935
Nebraska	5,790	5,667	5,491	5,483	5,948	5,891	0	0	17,230	17,041
North Dakota	2,742	2,918	3,510	3,552	4,218	3,873	0	0	10,470	10,343
South Dakota	2,729	2,723	2,782	2,781	1,523	1,529	0	0	7,035	7,032
South Atlantic	207,811	215,685	179,615	180,235	80,012	83,119	792	806	468,230	479,845
Delaware	2,732	3,036	2,460	2,460	1,177	1,377	0	0	6,369	6,872
District of Columbia	1,424	1,557	4,929	4,886	125	177	198	206	6,676	6,826
Florida	69,151	69,209	54,148	53,856	9,579	9,757	56	56	132,934	132,877
Georgia	33,284	34,181	27,322	27,407	18,467	18,622	100	101	79,173	80,311
Maryland	16,194	17,375	17,049	17,640	2,166	2,195	327	321	35,737	37,531
North Carolina	33,972	35,715	27,868	27,986	15,590	15,848	4	5	77,433	79,554
South Carolina	17,928	18,452	12,801	12,777	15,503	17,102	0	0	46,232	48,331
Virginia	26,340	28,866	28,497	28,576	9,961	10,288	108	118	64,906	67,848
West Virginia	6,786	7,294	4,541	4,648	7,445	7,753	0	0	18,771	19,695
East South Central	68,650	72,718	51,672	51,661	57,007	60,119	0	0	177,329	184,498
Alabama	18,580	19,525	13,146	13,205	19,141	20,048	0	0	50,867	52,777
Kentucky	15,478	16,482	11,021	11,021	15,950	17,722	0	0	42,449	45,226
Mississippi	10,452	10,937	7,820	7,845	9,568	9,432	0	0	27,839	28,214
Tennessee	24,139	25,774	19,686	19,591	12,349	12,917	0	0	56,174	58,281
West South Central	120,558	124,586	111,347	112,920	99,238	96,223	108	108	331,251	333,836
Arkansas	10,130	10,918	6,797	6,891	9,172	9,139	0	0	26,098	26,948
Louisiana	17,040	18,135	13,954	14,151	19,409	18,413	7	7	50,410	50,706
Oklahoma	13,279	13,568	11,580	11,571	9,850	9,851	0	0	34,709	34,989
Texas	80,110	81,965	79,016	80,307	60,808	58,820	100	100	220,033	221,193
Mountain	56,365	53,717	54,649	53,793	48,563	48,771	78	78	159,654	156,359
Arizona	19,528	18,327	17,027	16,716	8,776	8,251	3	4	45,334	43,298
Colorado	11,026	10,441	11,754	11,445	8,778	8,822	38	37	31,597	30,745
Idaho	4,746	4,663	3,588	3,576	5,133	5,346	0	0	13,468	13,585
Montana	2,850	2,863	2,841	2,874	2,457	2,506	0	0	8,149	8,243
Nevada	7,263	6,915	5,536	5,436	8,034	8,026	5	5	20,839	20,381
New Mexico	3,926	3,815	5,137	5,079	4,294	4,233	0	0	13,358	13,127
Utah	5,379	5,094	6,622	6,363	5,306	5,630	32	32	17,339	17,119
Wyoming	1,645	1,599	2,143	2,304	5,784	5,958	0	0	9,572	9,861
Pacific Contiguous	80,280	79,594	90,861	92,424	48,937	51,575	486	518	220,564	224,110
California	49,105	48,439	64,667	65,809	28,118	29,336	469	501	142,359	144,085
Oregon	10,859	10,756	9,277	9,307	6,636	7,106	14	14	26,786	27,183
Washington	20,316	20,398	16,917	17,307	14,182	15,133	3	3	51,418	52,842
Pacific Noncontiguous	2,614	2,633	3,383	3,424	2,897	2,818	0	0	8,894	8,875
Alaska	1,154	1,186	1,600	1,620	782	765	0	0	3,536	3,572
Hawaii	1,460	1,447	1,783	1,803	2,115	2,053	0	0	5,358	5,303
U.S. Total	807,172	828,308	778,266	784,901	544,312	557,114	4,388	4,549	2,134,139	2,174,872

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-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, July 2016 and 2015 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	830	799	729	728	183	184	4	5	1,746	1,716
Connecticut	245	247	184	183	37	37	2	2	467	469
Maine	59	59	41	45	20	22	0	0	120	126
Massachusetts	362	341	368	366	83	84	2	2	815	793
New Hampshire	73	66	57	57	21	20	0	0	151	144
Rhode Island	60	56	52	50	10	8	0	0	122	115
Vermont	32	30	27	26	12	12	0	0	71	69
Middle Atlantic	2,290	2,175	1,982	2,029	444	472	37	40	4,754	4,716
New Jersey	611	586	495	508	68	73	2	3	1,176	1,170
New York	964	908	1,134	1,149	94	93	30	31	2,222	2,182
Pennsylvania	715	681	354	371	282	307	5	5	1,356	1,364
East North Central	2,613	2,408	1,727	1,737	1,146	1,177	4	3	5,489	5,325
Illinois	636	598	428	422	252	241	3	3	1,320	1,265
Indiana	382	351	220	216	254	265	0	0	856	832
Michigan	578	510	390	407	189	196	0	0	1,157	1,113
Ohio	686	651	440	446	279	303	0	0	1,406	1,400
Wisconsin	331	298	248	246	172	171	0	0	751	715
West North Central	1,378	1,316	987	983	597	605	0	0	2,963	2,905
Iowa	200	192	119	119	144	126	0	0	463	438
Kansas	222	201	164	157	70	71	0	0	456	429
Minnesota	274	265	217	220	135	138	0	0	626	623
Missouri	468	452	313	315	85	107	0	0	866	874
Nebraska	127	122	85	87	91	96	0	0	304	305
North Dakota	38	38	46	46	53	49	0	0	137	133
South Dakota	49	45	42	40	19	18	0	0	110	103
South Atlantic	4,731	4,630	2,850	2,887	845	902	10	10	8,435	8,429
Delaware	65	64	37	38	17	17	0	0	119	120
District of Columbia	33	37	90	95	3	2	3	3	129	137
Florida	1,540	1,510	819	837	115	127	1	1	2,474	2,475
Georgia	832	855	470	528	183	227	1	1	1,485	1,612
Maryland	425	381	305	312	25	27	4	4	758	723
North Carolina	710	723	437	422	175	164	0	0	1,322	1,309
South Carolina	456	433	243	227	158	161	0	0	856	821
Virginia	558	529	385	368	98	109	1	1	1,042	1,007
West Virginia	113	97	65	60	71	69	0	0	250	225
East South Central	1,410	1,354	912	899	520	592	0	0	2,842	2,845
Alabama	442	426	257	250	186	210	0	0	884	885
Kentucky	284	261	174	165	132	142	0	0	589	568
Mississippi	218	226	130	143	88	102	0	0	436	470
Tennessee	467	442	351	341	115	138	0	0	933	921
West South Central	2,736	2,701	1,476	1,534	798	873	1	1	5,011	5,109
Arkansas	213	203	102	105	97	101	0	0	412	408
Louisiana	324	319	200	201	136	147	0	0	660	667
Oklahoma	294	274	161	160	78	86	0	0	534	521
Texas	1,904	1,905	1,014	1,068	487	539	1	1	3,406	3,513
Mountain	1,411	1,334	933	913	569	575	1	1	2,914	2,824
Arizona	594	543	346	336	90	95	0	0	1,031	973
Colorado	257	229	196	186	102	103	1	1	557	518
Idaho	76	75	44	45	85	82	0	0	205	202
Montana	44	45	43	44	21	23	0	0	107	112
Nevada	186	201	80	83	115	116	0	0	381	401
New Mexico	97	94	94	96	39	43	0	0	231	234
Utah	130	124	100	94	59	57	0	0	289	276
Wyoming	26	23	30	28	58	56	0	0	113	107
Pacific Contiguous	2,025	2,065	2,022	2,326	832	881	6	7	4,886	5,279
California	1,645	1,650	1,699	1,984	661	707	6	7	4,012	4,349
Oregon	149	175	122	129	71	72	0	0	342	375
Washington	231	240	202	213	100	102	0	0	533	555
Pacific Noncontiguous	95	103	109	120	87	94	0	0	292	317
Alaska	30	30	41	42	18	17	0	0	90	89
Hawaii	65	73	68	79	69	77	0	0	202	228
U.S. Total	19,521	18,886	13,727	14,155	6,022	6,355	63	68	39,332	39,464

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
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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 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through July 2016 and 2015 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	5,053	5,655	4,563	4,899	1,193	1,299	28	39	10,837	11,892
Connecticut	1,493	1,692	1,159	1,244	242	255	12	18	2,906	3,210
Maine	417	430	277	305	145	178	0	0	839	913
Massachusetts	2,145	2,458	2,269	2,417	521	571	13	18	4,948	5,464
New Hampshire	468	516	370	405	141	144	0	0	979	1,066
Rhode Island	324	346	319	358	61	67	3	3	707	774
Vermont	206	212	169	170	83	83	0	0	458	465
Middle Atlantic	11,863	12,878	11,225	12,194	2,895	3,167	243	274	26,226	28,513
New Jersey	2,599	2,763	2,746	2,952	410	468	16	19	5,770	6,203
New York	4,922	5,555	6,140	6,755	601	662	192	218	11,855	13,189
Pennsylvania	4,343	4,561	2,339	2,488	1,884	2,037	35	36	8,601	9,121
East North Central	13,944	14,008	10,446	10,629	7,371	7,622	24	27	31,785	32,286
Illinois	3,255	3,288	2,549	2,618	1,546	1,567	20	22	7,370	7,495
Indiana	2,109	2,185	1,323	1,362	1,684	1,776	1	1	5,118	5,325
Michigan	2,986	2,789	2,361	2,397	1,230	1,266	0	0	6,577	6,452
Ohio	3,765	3,968	2,696	2,741	1,848	1,945	2	3	8,311	8,657
Wisconsin	1,829	1,778	1,517	1,511	1,063	1,069	0	0	4,409	4,358
West North Central	6,977	6,885	5,570	5,485	3,419	3,492	2	2	15,969	15,864
Iowa	1,001	965	655	636	748	722	0	0	2,404	2,324
Kansas	1,015	969	926	900	460	466	0	0	2,401	2,335
Minnesota	1,584	1,551	1,313	1,295	821	851	1	1	3,719	3,698
Missouri	2,173	2,227	1,610	1,610	474	567	1	1	4,258	4,406
Nebraska	623	600	490	488	460	453	0	0	1,573	1,540
North Dakota	275	279	317	310	342	323	0	0	934	912
South Dakota	306	293	260	246	114	111	0	0	680	650
South Atlantic	24,151	25,294	16,726	17,277	5,090	5,467	62	68	46,029	48,106
Delaware	367	402	250	253	95	116	0	0	713	771
District of Columbia	184	199	577	590	11	15	19	19	792	824
Florida	7,735	8,165	4,944	5,244	743	814	5	5	13,427	14,228
Georgia	3,796	3,948	2,641	2,727	1,028	1,093	5	5	7,469	7,773
Maryland	2,309	2,356	1,870	1,974	171	194	25	28	4,374	4,552
North Carolina	3,776	3,981	2,411	2,424	961	1,013	0	0	7,148	7,420
South Carolina	2,222	2,277	1,294	1,292	920	1,026	0	0	4,437	4,596
Virginia	3,016	3,255	2,316	2,380	674	725	8	10	6,015	6,370
West Virginia	746	710	422	392	487	470	0	0	1,655	1,573
East South Central	7,317	7,781	5,171	5,314	3,243	3,596	0	0	15,732	16,692
Alabama	2,208	2,287	1,449	1,451	1,134	1,231	0	0	4,791	4,969
Kentucky	1,565	1,627	1,029	1,018	862	942	0	0	3,456	3,587
Mississippi	1,105	1,249	748	852	552	627	0	0	2,405	2,728
Tennessee	2,439	2,619	1,945	1,993	696	795	0	0	5,079	5,408
West South Central	12,677	13,682	8,587	8,984	5,056	5,412	6	6	26,327	28,084
Arkansas	989	1,051	551	564	532	552	0	0	2,072	2,166
Louisiana	1,521	1,651	1,172	1,219	933	988	1	1	3,628	3,859
Oklahoma	1,311	1,340	841	865	463	521	0	0	2,614	2,726
Texas	8,856	9,640	6,023	6,336	3,128	3,352	5	5	18,013	19,333
Mountain	6,541	6,388	5,186	5,257	3,027	3,201	7	8	14,761	14,854
Arizona	2,385	2,244	1,786	1,749	516	527	0	0	4,687	4,520
Colorado	1,296	1,253	1,103	1,119	608	624	4	4	3,011	2,999
Idaho	473	468	280	283	341	358	0	0	1,094	1,109
Montana	312	313	289	297	122	133	0	0	722	743
Nevada	837	896	448	511	457	537	0	0	1,742	1,944
New Mexico	461	482	495	534	246	269	0	0	1,202	1,284
Utah	594	559	584	555	338	350	3	3	1,519	1,468
Wyoming	182	173	202	210	399	404	0	0	783	787
Pacific Contiguous	11,521	11,069	11,764	12,236	4,341	4,559	43	45	27,668	27,909
California	8,484	8,134	9,530	10,019	3,305	3,464	41	43	21,361	21,660
Oregon	1,142	1,145	819	823	402	429	1	1	2,364	2,399
Washington	1,895	1,790	1,414	1,393	634	666	0	0	3,943	3,850
Pacific Noncontiguous	633	683	720	787	547	602	0	0	1,900	2,071
Alaska	236	237	290	288	120	114	0	0	645	639
Hawaii	397	446	430	499	427	488	0	0	1,254	1,433
U.S. Total	100,678	104,323	79,958	83,061	36,183	38,418	415	468	217,234	226,271

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	18.30	18.38	15.10	14.78	12.19	11.56	8.69	9.81	16.00	15.72
Connecticut	19.78	20.44	15.53	14.95	12.77	12.19	12.96	10.95	17.16	17.02
Maine	15.87	15.42	11.85	12.39	9.21	7.67	--	--	12.83	12.20
Massachusetts	18.19	18.04	15.74	15.28	13.24	13.11	5.64	8.50	16.35	16.01
New Hampshire	18.00	17.74	13.99	14.26	12.10	11.83	--	--	15.29	15.20
Rhode Island	17.11	17.59	14.19	14.08	13.45	12.16	19.26	17.86	15.42	15.42
Vermont	17.29	17.06	14.60	14.42	10.27	10.25	--	--	14.53	14.34
Middle Atlantic	15.96	16.57	13.29	13.80	7.12	7.34	11.25	12.01	13.27	13.63
New Jersey	16.15	16.76	13.11	13.89	10.91	11.39	9.21	10.92	14.34	14.96
New York	17.95	18.74	15.69	16.19	6.29	6.15	12.55	13.44	15.51	15.93
Pennsylvania	13.76	14.22	9.04	9.41	6.84	7.16	7.44	7.56	10.20	10.43
East North Central	12.87	13.25	9.87	10.12	7.02	7.16	6.58	7.20	10.13	10.28
Illinois	12.06	12.58	8.98	9.01	6.46	6.45	6.37	6.76	9.43	9.56
Indiana	11.27	11.14	9.55	9.50	7.00	6.72	8.90	9.98	9.18	8.88
Michigan	15.39	15.30	10.67	11.22	7.22	8.08	11.63	11.33	11.54	11.86
Ohio	12.25	13.29	9.63	10.14	6.87	7.16	8.14	12.66	9.87	10.35
Wisconsin	14.55	14.62	11.35	11.29	8.13	8.22	13.68	--	11.42	11.35
West North Central	12.77	12.66	10.24	10.18	7.94	7.80	10.79	10.89	10.60	10.44
Iowa	14.07	13.57	10.97	10.61	8.01	7.33	--	--	10.75	10.27
Kansas	13.06	12.33	10.42	10.22	7.51	7.65	--	--	10.85	10.48
Minnesota	13.20	13.07	10.10	10.16	7.58	7.74	10.20	10.07	10.42	10.43
Missouri	12.28	12.58	10.38	10.43	8.00	7.51	11.44	11.88	10.98	10.87
Nebraska	12.11	12.20	9.56	9.66	8.51	8.88	--	--	10.08	10.23
North Dakota	11.26	11.16	9.36	9.27	8.40	8.44	--	--	9.39	9.39
South Dakota	12.19	11.76	9.92	9.30	7.87	7.59	--	--	10.30	9.80
South Atlantic	11.80	12.25	9.27	9.76	6.98	7.23	8.00	8.85	10.15	10.54
Delaware	12.99	13.24	9.44	10.09	7.95	7.66	--	--	10.77	10.99
District of Columbia	12.30	13.64	11.30	11.85	8.62	8.83	9.02	8.97	11.38	12.15
Florida	11.18	11.94	8.87	9.56	7.97	8.58	8.03	8.66	10.11	10.81
Georgia	12.29	13.28	10.00	11.31	6.70	7.94	6.30	9.94	10.45	11.53
Maryland	14.05	13.95	10.74	10.92	7.47	7.91	7.79	8.75	12.14	12.12
North Carolina	11.19	11.47	8.98	8.95	7.04	7.05	7.76	7.92	9.65	9.81
South Carolina	12.58	12.49	10.46	10.18	6.65	6.29	--	--	10.30	9.95
Virginia	11.71	11.66	7.86	8.19	6.83	7.00	7.88	8.06	9.38	9.50
West Virginia	11.19	10.71	9.06	8.67	6.69	6.18	--	--	8.93	8.33
East South Central	10.83	10.83	10.11	10.24	6.20	6.65	--	--	9.34	9.42
Alabama	12.08	11.90	11.11	10.98	6.59	6.82	--	--	10.07	9.91
Kentucky	10.28	9.95	9.29	9.15	5.77	5.68	--	--	8.52	8.20
Mississippi	10.21	11.16	9.25	10.37	6.15	7.10	--	--	8.77	9.73
Tennessee	10.45	10.31	10.24	10.27	6.17	7.31	--	--	9.56	9.70
West South Central	10.47	10.97	7.79	7.90	5.38	5.72	5.63	5.53	8.36	8.62
Arkansas	10.28	10.38	8.24	8.60	6.50	6.81	9.46	10.80	8.58	8.78
Louisiana	9.06	9.24	8.14	8.34	4.80	5.20	8.68	8.22	7.44	7.68
Oklahoma	9.99	9.98	8.01	8.14	5.18	5.72	--	--	8.25	8.36
Texas	10.86	11.58	7.65	7.73	5.41	5.70	5.40	5.33	8.55	8.84
Mountain	12.09	12.40	9.99	10.29	7.11	7.34	9.78	10.12	10.04	10.27
Arizona	12.70	12.83	11.24	11.48	6.70	6.97	10.61	11.21	11.32	11.43
Colorado	12.43	12.60	10.01	10.26	7.43	7.42	9.78	10.05	10.28	10.32
Idaho	10.81	10.67	8.12	8.08	7.08	7.18	--	--	8.39	8.41
Montana	11.60	11.42	10.32	10.16	5.53	5.87	--	--	9.18	9.17
Nevada	10.72	12.01	7.71	8.78	8.42	9.27	8.60	9.84	9.21	10.34
New Mexico	12.51	13.32	10.45	11.30	5.97	6.62	--	--	9.87	10.57
Utah	11.72	11.94	9.13	9.11	7.05	7.02	9.89	10.11	9.51	9.54
Wyoming	11.88	11.62	9.49	9.25	6.78	6.71	--	--	8.18	8.00
Pacific Contiguous	15.97	15.51	14.63	15.67	10.49	10.64	9.15	9.79	14.16	14.46
California	18.49	18.01	16.94	18.39	14.05	14.24	9.16	9.82	16.93	17.40
Oregon	10.79	11.06	8.83	8.91	6.47	6.41	9.17	9.11	8.86	9.06
Washington	9.60	9.34	8.34	8.16	4.70	4.64	7.59	8.58	7.66	7.52
Pacific Noncontiguous	25.52	26.79	22.04	23.53	19.86	21.48	--	--	22.30	23.80
Alaska	21.42	21.27	18.61	18.66	16.47	15.54	--	--	18.95	18.73
Hawaii	28.04	30.05	24.80	27.30	21.01	23.46	--	--	24.20	26.61
U.S. Total	12.68	12.99	10.62	11.02	7.23	7.44	9.69	10.46	10.71	10.96

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD	July 2016 YTD	July 2015 YTD
New England	19.02	20.07	15.14	15.88	12.03	12.36	8.61	11.18	16.19	17.01
Connecticut	20.61	21.80	15.81	16.42	13.03	13.19	11.35	15.01	17.57	18.46
Maine	15.57	15.75	11.99	13.42	8.77	9.35	--	--	12.63	13.21
Massachusetts	19.28	20.64	15.50	16.05	13.05	13.38	6.43	8.56	16.52	17.38
New Hampshire	18.29	19.13	14.40	15.44	12.32	12.86	--	--	15.61	16.53
Rhode Island	18.40	18.97	15.05	16.60	13.60	14.49	18.55	17.68	16.27	17.35
Vermont	17.21	16.92	14.48	14.47	10.07	10.14	--	--	14.37	14.33
Middle Atlantic	15.63	16.01	12.38	13.17	7.04	7.52	10.87	11.88	12.49	13.12
New Jersey	15.73	15.96	12.43	13.07	10.20	11.16	8.81	10.52	13.48	14.01
New York	17.32	18.84	14.09	15.26	6.05	6.54	11.99	13.11	14.19	15.42
Pennsylvania	14.03	13.56	9.35	9.68	6.94	7.33	7.73	7.93	10.29	10.41
East North Central	12.86	12.74	9.77	9.88	6.82	6.87	6.93	7.49	9.82	9.82
Illinois	12.25	12.39	8.70	8.89	6.34	6.33	6.71	6.97	9.15	9.24
Indiana	11.13	11.06	9.52	9.63	6.81	6.71	9.50	10.09	8.89	8.82
Michigan	15.05	14.21	10.53	10.62	6.93	7.23	11.51	11.36	10.96	10.81
Ohio	12.38	12.55	9.80	9.91	6.74	6.82	7.67	12.25	9.74	9.86
Wisconsin	14.40	14.34	11.03	11.01	7.74	7.78	14.42	--	10.97	10.94
West North Central	11.63	11.32	9.44	9.22	7.04	6.86	9.06	8.77	9.53	9.27
Iowa	12.16	11.79	9.32	9.05	6.07	5.94	--	--	8.72	8.49
Kansas	12.99	12.24	10.34	10.02	7.47	7.44	--	--	10.47	10.08
Minnesota	12.55	12.19	9.75	9.51	7.21	7.09	10.03	9.49	9.92	9.64
Missouri	10.83	10.77	9.05	8.93	6.73	6.16	7.96	7.92	9.48	9.19
Nebraska	10.76	10.59	8.92	8.90	7.73	7.68	--	--	9.13	9.04
North Dakota	10.05	9.57	9.04	8.71	8.10	8.33	--	--	8.93	8.81
South Dakota	11.19	10.75	9.34	8.85	7.51	7.26	--	--	9.66	9.24
South Atlantic	11.62	11.73	9.31	9.59	6.36	6.58	7.86	8.42	9.83	10.03
Delaware	13.42	13.23	10.18	10.30	8.10	8.40	--	--	11.19	11.21
District of Columbia	12.96	12.80	11.71	12.07	9.08	8.73	9.36	9.28	11.86	12.07
Florida	11.19	11.80	9.13	9.74	7.75	8.35	8.30	8.90	10.10	10.71
Georgia	11.40	11.55	9.67	9.95	5.56	5.87	4.91	5.32	9.43	9.68
Maryland	14.26	13.56	10.97	11.19	7.88	8.85	7.78	8.79	12.24	12.13
North Carolina	11.11	11.15	8.65	8.66	6.17	6.40	7.85	7.89	9.23	9.33
South Carolina	12.40	12.34	10.11	10.11	5.94	6.00	--	--	9.60	9.51
Virginia	11.45	11.28	8.13	8.33	6.76	7.05	7.89	8.33	9.27	9.39
West Virginia	10.99	9.74	9.29	8.43	6.54	6.07	--	--	8.82	7.98
East South Central	10.66	10.70	10.01	10.29	5.69	5.98	--	--	8.87	9.05
Alabama	11.88	11.71	11.02	10.99	5.92	6.14	--	--	9.42	9.42
Kentucky	10.11	9.87	9.34	9.24	5.40	5.32	--	--	8.14	7.93
Mississippi	10.58	11.42	9.57	10.85	5.77	6.65	--	--	8.64	9.67
Tennessee	10.10	10.16	9.88	10.18	5.63	6.16	--	--	9.04	9.28
West South Central	10.52	10.98	7.71	7.96	5.09	5.62	5.64	5.55	7.95	8.41
Arkansas	9.76	9.63	8.11	8.18	5.80	6.04	9.26	10.83	7.94	8.04
Louisiana	8.93	9.10	8.40	8.61	4.81	5.37	8.93	8.43	7.20	7.61
Oklahoma	9.87	9.88	7.26	7.47	4.70	5.29	--	--	7.53	7.79
Texas	11.06	11.76	7.62	7.89	5.14	5.70	5.41	5.34	8.19	8.74
Mountain	11.60	11.89	9.49	9.77	6.23	6.56	9.53	10.00	9.25	9.50
Arizona	12.21	12.24	10.49	10.46	5.87	6.38	9.08	9.03	10.34	10.44
Colorado	11.76	12.00	9.38	9.77	6.93	7.07	9.40	10.17	9.53	9.75
Idaho	9.97	10.05	7.80	7.91	6.64	6.69	--	--	8.12	8.16
Montana	10.95	10.93	10.15	10.33	4.95	5.32	--	--	8.86	9.02
Nevada	11.52	12.96	8.08	9.39	5.69	6.69	7.80	9.08	8.36	9.54
New Mexico	11.73	12.62	9.63	10.51	5.74	6.34	--	--	9.00	9.78
Utah	11.05	10.98	8.81	8.72	6.37	6.22	9.98	10.05	8.76	8.57
Wyoming	11.06	10.84	9.43	9.10	6.90	6.79	--	--	8.18	7.99
Pacific Contiguous	14.35	13.91	12.95	13.24	8.87	8.84	8.80	8.59	12.54	12.45
California	17.28	16.79	14.74	15.22	11.75	11.81	8.78	8.58	15.01	15.03
Oregon	10.52	10.64	8.83	8.85	6.05	6.04	9.24	9.17	8.83	8.82
Washington	9.33	8.77	8.36	8.05	4.47	4.40	9.01	8.65	7.67	7.29
Pacific Noncontiguous	24.22	25.92	21.27	22.99	18.87	21.35	--	--	21.36	23.34
Alaska	20.42	19.97	18.10	17.76	15.33	14.92	--	--	18.25	17.88
Hawaii	27.22	30.80	24.12	27.69	20.18	23.75	--	--	23.41	27.01
U.S. Total	12.47	12.59	10.27	10.58	6.65	6.90	9.46	10.29	10.18	10.40

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 - July 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
July	131,138,585	18,141,087	821,501	82	150,101,255
Rolling 12 Months Ending in July					
2015	129,408,744	17,913,360	824,918	76	148,147,098
2016	130,528,233	18,091,605	813,420	80	149,433,337

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: July 2016 and 2015

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	6,297,998	6,276,989	878,614	866,596	25,893	26,080	6	6	7,202,511	7,169,671
Connecticut	1,487,232	1,466,638	152,219	150,255	4,410	4,387	3	3	1,643,864	1,621,283
Maine	682,982	707,725	96,831	92,593	2,948	3,042	0	0	782,761	803,360
Massachusetts	2,760,025	2,743,293	407,980	405,496	13,233	13,366	2	2	3,181,240	3,162,157
New Hampshire	615,483	607,654	107,432	106,200	3,259	3,243	0	0	726,174	717,097
Rhode Island	438,714	438,992	58,915	58,669	1,829	1,827	1	1	499,459	499,489
Vermont	313,562	312,687	55,237	53,383	214	215	0	0	369,013	366,285
Middle Atlantic	16,071,845	15,888,446	2,295,008	2,266,464	42,713	43,655	20	18	18,409,586	18,198,583
New Jersey	3,515,324	3,502,333	513,197	516,199	11,796	12,318	6	6	4,040,323	4,030,856
New York	7,228,131	7,078,130	1,088,154	1,057,921	7,718	7,667	8	6	8,324,011	8,143,724
Pennsylvania	5,328,390	5,307,983	693,657	692,344	23,199	23,670	6	6	6,045,252	6,024,003
East North Central	19,965,083	19,818,374	2,468,807	2,454,490	51,981	52,251	8	7	22,485,879	22,325,122
Illinois	5,232,372	5,171,897	605,148	601,051	5,483	5,529	3	3	5,843,006	5,778,480
Indiana	2,813,942	2,789,191	347,805	346,587	17,438	17,481	1	1	3,179,186	3,153,260
Michigan	4,321,327	4,294,945	542,917	536,896	NM	5,622	1	1	4,869,953	4,837,464
Ohio	4,919,217	4,899,217	620,579	619,418	18,663	18,899	2	2	5,558,461	5,537,536
Wisconsin	2,678,225	2,663,124	352,358	350,538	NM	4,720	1	0	3,035,273	3,018,382
West North Central	9,366,230	9,328,009	1,435,229	1,423,009	114,360	113,137	3	2	10,915,822	10,864,157
Iowa	1,366,447	1,364,192	240,103	230,442	NM	6,723	0	0	1,613,337	1,601,357
Kansas	1,266,879	1,256,151	232,750	231,050	26,256	26,350	0	0	1,525,885	1,513,551
Minnesota	2,360,332	2,375,679	284,867	289,292	NM	8,168	1	1	2,653,287	2,673,140
Missouri	2,762,130	2,741,681	374,756	372,831	8,408	8,457	2	1	3,145,296	3,122,970
Nebraska	842,200	834,423	158,490	157,601	53,890	53,111	0	0	1,054,580	1,045,135
North Dakota	374,374	366,529	72,279	70,232	7,892	7,443	0	0	454,545	444,204
South Dakota	393,868	389,354	71,984	71,561	NM	2,885	0	0	468,892	463,800
South Atlantic	27,245,848	26,860,298	3,747,906	3,690,247	80,188	78,804	13	11	31,073,955	30,629,360
Delaware	418,326	413,543	53,099	52,387	1,122	1,133	0	0	472,547	467,063
District of Columbia	258,921	247,099	25,874	25,763	1	1	3	1	284,799	272,864
Florida	9,120,898	8,974,827	1,212,215	1,189,893	20,740	19,962	2	2	10,353,855	10,184,684
Georgia	4,265,793	4,209,635	576,232	568,899	19,483	18,406	1	1	4,861,509	4,796,941
Maryland	2,298,150	2,255,222	251,065	247,983	8,812	8,800	5	5	2,558,032	2,512,010
North Carolina	4,436,459	4,374,531	695,323	680,844	10,047	10,148	1	1	5,141,830	5,065,524
South Carolina	2,225,956	2,195,024	359,608	354,574	4,493	4,590	0	0	2,590,057	2,554,188
Virginia	3,364,451	3,331,099	431,890	428,098	3,797	3,805	1	1	3,800,139	3,763,003
West Virginia	856,894	859,318	142,600	141,806	11,693	11,959	0	0	1,011,187	1,013,083
East South Central	8,317,518	8,243,076	1,380,281	1,365,488	25,089	25,028	0	0	9,722,888	9,633,592
Alabama	2,217,108	2,200,423	367,640	363,843	8,192	8,179	0	0	2,592,940	2,572,445
Kentucky	1,971,738	1,957,015	297,724	295,630	7,672	7,761	0	0	2,277,134	2,260,406
Mississippi	1,296,743	1,286,163	237,407	233,645	7,866	7,667	0	0	1,542,016	1,527,475
Tennessee	2,831,929	2,799,475	477,510	472,370	1,359	1,421	0	0	3,310,798	3,273,266
West South Central	15,561,513	15,283,595	2,186,328	2,205,555	188,574	194,934	5	6	17,936,420	17,684,090
Arkansas	1,371,304	1,360,501	189,871	187,142	41,230	41,068	2	2	1,602,407	1,588,713
Louisiana	2,067,202	2,048,879	292,206	289,192	18,669	18,709	1	1	2,378,078	2,356,781
Oklahoma	1,751,958	1,731,369	282,320	279,196	18,123	18,356	0	0	2,052,401	2,028,921
Texas	10,371,049	10,142,846	1,421,931	1,450,025	110,552	116,801	2	3	11,903,534	11,709,675
Mountain	9,507,518	9,382,775	1,367,040	1,349,561	90,629	91,025	4	4	10,965,191	10,823,365
Arizona	2,707,019	2,671,505	316,110	313,111	6,736	6,720	1	1	3,029,866	2,991,337
Colorado	2,255,764	2,223,216	357,041	352,955	14,697	14,773	1	1	2,627,503	2,590,945
Idaho	713,151	701,822	107,239	105,378	28,197	27,791	0	0	848,587	834,991
Montana	498,799	493,062	107,043	105,563	9,549	9,436	0	0	615,391	608,061
Nevada	1,143,566	1,129,868	162,141	159,928	3,597	3,540	1	1	1,309,305	1,293,337
New Mexico	888,164	880,558	138,001	137,068	8,585	8,617	0	0	1,034,750	1,026,243
Utah	1,030,785	1,014,047	121,065	117,184	9,584	10,562	1	1	1,161,435	1,141,794
Wyoming	270,270	268,697	58,400	58,374	9,684	9,586	0	0	338,354	336,657
Pacific Contiguous	18,090,438	18,452,547	2,267,731	2,331,551	199,913	209,968	23	22	20,558,105	20,994,088
California	13,415,093	13,820,522	1,656,406	1,726,876	145,580	156,826	15	13	15,217,094	15,704,237
Oregon	1,714,789	1,695,481	234,807	232,551	26,288	25,038	2	2	1,975,886	1,953,072
Washington	2,960,556	2,936,544	376,518	372,124	28,045	28,104	6	7	3,365,125	3,336,779
Pacific Noncontiguous	714,594	712,403	114,143	111,725	NM	2,043	0	0	830,898	826,171
Alaska	284,261	283,843	52,932	50,771	NM	NM	0	0	338,558	335,930
Hawaii	430,333	428,560	61,211	60,954	796	727	0	0	492,340	490,241
U.S. Total	131,138,585	130,246,512	18,141,087	18,064,686	821,501	836,925	82	76	150,101,255	149,148,199

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

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

		As of End of June 2016	Activity During July 2016 as Reported to EIA		As of End of July 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*	*74,267.3*	*441.6*	*1.6*	*74,707.3*	*440.0*	*2,129.4*	*7,800.3*	*21.4*	*7,125.0*	*0.0*	*0.0*	*21.4*	*7,125.0*	*74,728.7*	*81,832.3*
..... *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	74,267.3	441.6	1.6	74,707.3	440.0	2,129.4	7,800.3	21.4	7,154.3	0.0	0.0	21.4	7,154.3	74,728.7	81,861.6
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*13,189.8*	*732.3*	*0.0*	*13,922.1*	*732.3*	*2,292.4*	*4,235.9*	*1,259.1*	*7,582.2*	*0.0*	*0.0*	*1,259.1*	*7,582.2*	*15,181.2*	*21,504.3*
..... *Solar Thermal without Energy Storage*	*Utility Scale Facilities*	*1,352.5*	*0.0*	*0.0*	*1,352.5*	*0.0*	*-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	14,947.7	732.3	0.0	15,680.0	732.3	2,273.6	4,327.1	1,259.1	7,582.2	0.0	0.0	1,259.1	7,582.2	16,939.1	23,262.2
..... Conventional Hydroelectric	Utility Scale Facilities	79,882.0	144.8	19.9	80,006.9	124.9	265.2	191.4	0.0	324.2	103.8	110.4	-103.8	213.8	79,903.1	80,220.7
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,909.3*	*45.0*	*0.0*	*8,954.3*	*45.0*	*399.9*	*434.1*	*0.0*	*70.5*	*18.0*	*28.5*	*-18.0*	*42.0*	*8,936.3*	*8,996.3*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,108.4*	*1.2*	*1.4*	*2,108.2*	*-0.2*	*-9.4*	*-8.4*	*0.9*	*25.4*	*1.0*	*10.0*	*-0.1*	*15.4*	*2,108.1*	*2,123.6*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,252.3*	*0.0*	*5.2*	*2,247.1*	*-5.2*	*-6.8*	*-62.8*	*0.0*	*0.0*	*0.0*	*2.0*	*0.0*	*-2.0*	*2,247.1*	*2,245.1*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*807.3*	*0.0*	*0.0*	*807.3*	*0.0*	*-31.2*	*-28.4*	*4.0*	*24.6*	*0.0*	*0.8*	*4.0*	*23.8*	*811.3*	*831.1*
..... Biomass Sources Subtotal	Utility Scale Facilities	14,077.3	46.2	6.6	14,116.9	39.6	352.5	334.5	4.9	120.5	19.0	41.3	-14.1	79.2	14,102.8	14,196.1
..... 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***	***185,715.8***	***1,364.9***	***28.1***	***187,052.6***	***1,336.8***	***5,032.0***	***12,650.4***	***1,285.4***	***15,181.2***	***122.8***	***181.7***	***1,162.6***	***14,999.5***	***188,215.2***	***202,052.1***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*237,477.1*	*1,969.1*	*0.0*	*239,446.2*	*1,969.1*	*5,091.9*	*7,121.0*	*0.0*	*9,195.6*	*0.0*	*95.0*	*0.0*	*9,100.6*	*239,446.2*	*248,546.8*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*124,246.8*	*446.2*	*11.8*	*124,681.2*	*434.4*	*-139.0*	*180.3*	*35.0*	*1,298.5*	*17.0*	*149.3*	*18.0*	*1,149.2*	*124,699.2*	*125,830.4*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*79,238.6*	*167.4*	*46.7*	*79,359.3*	*120.7*	*3,607.7*	*2,762.2*	*0.0*	*43.2*	*0.0*	*454.0*	*0.0*	*-410.8*	*79,359.3*	*78,948.5*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*3,754.5*	*55.8*	*0.0*	*3,810.3*	*55.8*	*228.9*	*251.1*	*224.6*	*462.8*	*0.9*	*4.2*	*223.7*	*458.6*	*4,034.0*	*4,268.9*
..... *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	444,934.1	2,638.5	58.5	447,514.1	2,580.0	8,790.6	10,322.2	259.6	11,007.1	17.9	702.5	241.7	10,304.6	447,755.8	457,818.7
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*272,217.1*	*3,776.7*	*4,386.9*	*271,606.9*	*-610.2*	*-12,103.8*	*-15,863.8*	*0.0*	*14.8*	*155.0*	*3,761.1*	*-155.0*	*-3,746.3*	*271,451.9*	*267,860.6*
..... *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	273,032.1	3,776.7	4,386.9	272,421.9	-610.2	-12,079.8	-15,839.8	0.0	14.8	155.0	3,761.1	-155.0	-3,746.3	272,266.9	268,675.6
..... 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	34,867.0	1.0	2.2	34,865.8	-1.2	-1,931.5	-2,035.3	0.0	35.3	62.7	683.0	-62.7	-647.7	34,803.1	34,218.1
..... Other Gases	Utility Scale Facilities	2,498.7	1.7	0.0	2,500.4	1.7	586.1	586.1	0.0	0.0	3.2	3.2	-3.2	-3.2	2,497.2	2,497.2
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***756,872.2***	***6,417.9***	***4,447.6***	***758,842.5***	***1,970.3***	***-5,284.5***	***-7,616.7***	***259.6***	***11,057.2***	***238.8***	***5,149.8***	***20.8***	***5,907.4***	***758,863.3***	***764,749.9***
..... 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	324.2	0.0	0.0	324.2	0.0	78.5	133.6	1.0	99.6	0.0	0.0	1.0	99.6	325.2	423.8
... Energy Storage Subtotal	***Utility Scale Facilities***	***23,036.3***	***0.0***	***0.0***	***23,036.3***	***0.0***	***189.5***	***244.6***	***1.0***	***213.6***	***0.0***	***0.0***	***1.0***	***213.6***	***23,037.3***	***23,249.9***
... Nuclear	***Utility Scale Facilities***	***99,794.0***	***0.0***	***0.0***	***99,794.0***	***0.0***	***1,065.0***	***1,065.0***	***0.0***	***20.0***	***0.0***	***2,379.9***	***0.0***	***-2,359.9***	***99,794.0***	***97,434.1***
... All Other	***Utility Scale Facilities***	***1,469.8***	***0.0***	***0.0***	***1,469.8***	***0.0***	***-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**	**1,066,888.1**	**7,782.8**	**4,475.7**	**1,070,195.2**	**3,307.1**	**863.0**	**6,204.3**	**1,546.0**	**26,488.5**	**361.6**	**7,711.4**	**1,184.4**	**18,777.1**	**1,071,379.6**	**1,088,972.3**
..... *Estimated Distributed Solar Photovoltaic*	*Distributed Facilities*	*9,690.6*			*9,869.8*	*179.2*	*1,490.7*	*2,548.9*								
..... Estimated Total Solar Photovoltaic	All Facilities	22,880.4			23,791.9	911.5	3,783.1	6,784.8								
... Estimated Total Solar	***All Facilities***	***24,638.3***			***25,549.8***	***911.5***	***3,764.3***	***6,876.0***								

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 - July 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
July	13,922.1	9,869.8	23,791.9

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 - July 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
July	5,580.2	3,452.1	837.5	9,869.8

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, July 2016 and 2015 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	5,041.9	4,603.3	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	33,629.8	33,321.8
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	2,190.4	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	4,654.9	4,462.4
Massachusetts	969.7	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	13,233.0	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	51.3	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	1,813.1
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	10,683.7	10,580.2	69,260.3	67,525.6	3,409.1	3,409.1	40.0	40.0	19,224.5	19,321.3	11.2	11.2	102,628.8	100,887.4
New Jersey	701.4	671.6	13,557.5	12,511.4	420.0	420.0	0.0	0.0	4,107.9	4,110.1	11.2	11.2	18,798.0	17,724.3
New York	7,128.1	7,049.0	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	39,908.5	40,427.2
Pennsylvania	2,854.2	2,859.6	29,746.1	28,493.5	1,583.0	1,583.0	20.0	20.0	9,719.0	9,779.8	0.0	0.0	43,922.3	42,735.9
East North Central	10,210.9	9,798.3	113,812.3	117,041.1	2,037.0	1,945.0	127.6	59.0	18,896.1	18,873.3	110.1	109.1	145,194.0	147,825.8
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	1,971.0	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	26,304.0
Michigan	2,252.1	2,147.7	20,874.7	22,118.9	2,037.0	1,945.0	0.0	0.0	3,976.5	3,982.0	0.0	0.0	29,140.3	30,193.6
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	1,109.7	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	16,676.9	16,994.5
West North Central	21,760.1	19,253.2	60,582.6	61,824.3	657.0	657.0	2.0	2.0	5,855.5	5,806.0	24.5	24.5	88,881.7	87,567.0
Iowa	6,349.2	5,856.4	9,532.2	10,063.1	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	16,482.8	16,520.9
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	4,116.0	3,423.9	10,132.6	10,239.2	0.0	0.0	1.0	1.0	1,647.0	1,594.0	18.4	18.4	15,915.0	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	4,615.5	4,585.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	7,362.3	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	14,563.9	13,198.9	159,994.6	160,031.5	7,905.2	7,905.2	76.5	34.0	24,578.6	24,559.1	509.7	586.7	207,628.5	206,315.4
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	9.9	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	18.9
Florida	1,435.8	1,404.3	54,112.4	53,863.8	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	488.7	59,468.9	59,328.8
Georgia	3,416.6	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	36,530.7	36,380.6
Maryland	1,005.9	959.8	9,556.7	9,693.2	0.0	0.0	11.0	0.0	1,707.8	1,707.8	0.0	0.0	12,281.4	12,360.8
North Carolina	4,192.5	3,405.0	22,021.3	21,973.4	86.0	86.0	0.0	0.0	5,113.6	5,094.1	161.0	54.0	31,574.4	30,612.5
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	66,412.3	69,586.3	1,616.3	1,616.3	0.0	0.0	10,990.1	9,875.6	1.4	1.4	87,233.7	89,035.9
Alabama	3,939.9	3,886.9	20,686.5	22,793.0	0.0	0.0	0.0	0.0	5,066.4	5,066.4	0.0	0.0	29,692.8	31,746.3
Kentucky	1,109.9	905.6	19,004.5	19,445.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,114.4	20,350.8
Mississippi	274.7	274.7	14,407.4	14,253.7	0.0	0.0	0.0	0.0	1,401.0	1,408.5	1.4	1.4	16,084.5	15,938.3
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	28,619.7	24,309.1	145,605.3	147,580.6	286.0	288.0	36.0	36.0	8,896.2	8,912.4	512.2	513.2	183,955.4	181,639.3
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	687.1	642.1	23,295.8	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	18,218.2	19,234.1	258.0	260.0	0.0	0.0	0.0	0.0	0.0	0.0	24,865.7	24,363.4
Texas	19,952.5	17,165.7	92,811.7	93,559.1	0.0	0.0	36.0	36.0	4,960.0	4,960.0	236.3	237.4	117,996.5	115,958.2
Mountain	22,651.6	20,928.6	64,087.8	63,943.2	778.8	778.8	2.6	2.6	3,937.0	3,937.0	119.8	111.4	91,577.6	89,701.6
Arizona	4,587.4	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	28,123.1	28,234.3
Colorado	3,873.1	3,403.2	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	14,961.2
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	2,793.9	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	11,052.6	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	978.2	676.0	7,462.4	7,454.4	0.0	0.0	0.0	0.0	0.0	0.0	40.2	31.8	8,480.8	8,162.2
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	64,220.8	62,713.9	52,205.4	51,953.3	4,183.3	4,183.3	25.5	9.0	3,398.0	3,398.0	106.3	171.8	124,139.3	122,429.3
California	27,341.0	25,894.3	43,017.9	43,300.8	3,869.3	3,869.3	18.5	8.0	2,240.0	2,240.0	106.3	121.0	76,593.0	75,433.4
Oregon	12,042.5	12,040.0	4,372.8	3,859.6	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	16,420.3	15,899.6
Washington	24,837.3	24,779.6	4,814.7	4,792.9	314.0	314.0	2.0	1.0	1,158.0	1,158.0	0.0	50.8	31,126.0	31,096.3
Pacific Noncontiguous	1,086.4	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	5,326.4	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	577.7	552.9	2,057.2	2,072.0	0.0	0.0	27.0	21.0	0.0	0.0	26.6	26.6	2,688.5	2,672.5
U.S. Total	187,052.6	174,402.2	758,842.5	766,459.2	22,670.1	22,558.1	366.2	233.6	99,794.0	98,729.0	1,469.8	1,608.8	1,070,195.2	1,063,990.9

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 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, July 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	
	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015
New England	1,044.6	808.2	393.4	358.6	0.0	0.0	1,955.2	1,966.2	1,648.7	1,470.3	0.0	0.0	5,041.9	4,603.3	1,033.4	680.5	1,426.8	1,039.1	1,426.8	1,039.1
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	187.8	117.9	200.0	127.9	200.0	127.9
Maine	652.7	430.6	0.0	0.0	0.0	0.0	728.9	733.0	808.8	631.8	0.0	0.0	2,190.4	1,795.4	17.2	10.9	17.2	10.9	17.2	10.9
Massachusetts	82.6	82.6	337.9	310.5	0.0	0.0	265.9	263.4	283.3	283.3	0.0	0.0	969.7	939.8	723.5	489.2	1,061.4	799.7	1,061.4	799.7
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	31.8	13.9	31.8	13.9	31.8	13.9
Rhode Island	6.0	3.8	8.9	7.9	0.0	0.0	2.7	2.7	36.9	36.9	0.0	0.0	54.5	51.3	12.9	8.6	21.8	16.5	21.8	16.5
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	60.3	40.2	94.7	70.4	94.7	70.4
Middle Atlantic	3,088.1	3,098.5	588.9	517.7	0.0	0.0	5,623.5	5,618.8	1,383.2	1,345.2	0.0	0.0	10,683.7	10,580.2	1,636.7	1,268.9	2,225.6	1,786.6	2,225.6	1,786.6
New Jersey	7.6	7.6	452.4	420.9	0.0	0.0	12.3	12.3	229.1	230.8	0.0	0.0	701.4	671.6	930.3	779.9	1,382.7	1,200.8	1,382.7	1,200.8
New York	1,747.0	1,747.0	94.3	54.7	0.0	0.0	4,711.6	4,713.1	575.2	534.2	0.0	0.0	7,128.1	7,049.0	540.4	343.1	634.7	397.8	634.7	397.8
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	165.9	145.8	208.1	187.9	208.1	187.9
East North Central	7,814.1	7,480.4	215.3	167.6	0.0	0.0	913.2	918.2	1,268.3	1,232.1	0.0	0.0	10,210.9	9,798.3	149.3	128.3	364.6	295.9	364.6	295.9
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	19.0	16.0	51.8	47.9	51.8	47.9
Indiana	1,889.7	1,739.7	131.9	96.1	0.0	0.0	60.4	60.4	74.5	74.8	0.0	0.0	2,156.5	1,971.0	11.8	8.2	143.7	104.3	143.7	104.3
Michigan	1,360.1	1,360.1	6.9	1.0	0.0	0.0	324.6	333.1	560.5	453.5	0.0	0.0	2,252.1	2,147.7	29.5	26.4	36.4	27.4	36.4	27.4
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	65.1	58.9	107.8	96.5	107.8	96.5
Wisconsin	331.4	331.7	1.0	1.0	0.0	0.0	392.2	388.7	385.1	436.1	0.0	0.0	1,109.7	1,157.5	24.0	18.7	25.0	19.7	25.0	19.7
West North Central	17,907.6	15,422.4	23.5	13.2	0.0	0.0	3,278.1	3,300.8	550.9	516.8	0.0	0.0	21,760.1	19,253.2	163.1	134.2	186.6	147.4	186.6	147.4
Iowa	6,181.1	5,691.1	0.0	0.0	0.0	0.0	144.9	144.9	23.2	20.4	0.0	0.0	6,349.2	5,856.4	28.6	23.3	28.6	23.3	28.6	23.3
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	2.8	4.8	3.8	4.8	3.8
Minnesota	3,440.7	2,787.8	4.0	1.7	0.0	0.0	194.6	195.0	476.7	439.4	0.0	0.0	4,116.0	3,423.9	22.7	17.2	26.7	18.9	26.7	18.9
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	106.2	89.5	120.7	100.0	120.7	100.0
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	0.9	NM	0.9	NM	NM
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	NM	0.3	NM	0.3	NM	NM
South Atlantic	775.3	745.3	2,385.0	1,013.5	0.0	0.0	7,229.7	7,198.0	4,173.9	4,242.1	0.0	0.0	14,563.9	13,198.9	761.7	469.3	3,146.7	1,482.8	3,146.7	1,482.8
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	58.6	40.1	89.3	70.8	89.3	70.8
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	9.9	0.0	0.0	12.0	9.9	25.3	16.6	25.3	16.6	25.3	16.6
Florida	0.0	0.0	92.7	72.9	0.0	0.0	54.5	54.5	1,288.6	1,276.9	0.0	0.0	1,435.8	1,404.3	123.3	87.8	216.0	160.7	216.0	160.7
Georgia	0.0	0.0	471.3	68.6	0.0	0.0	2,047.5	2,047.6	897.8	843.1	0.0	0.0	3,416.6	2,959.3	NM	51.6	NM	120.2	NM	NM
Maryland	190.0	160.0	83.9	64.7	0.0	0.0	590.0	590.0	142.0	145.1	0.0	0.0	1,005.9	959.8	369.7	182.6	453.6	247.3	453.6	247.3
North Carolina	0.0	0.0	1,700.9	774.1	0.0	0.0	2,004.1	1,999.1	487.5	631.8	0.0	0.0	4,192.5	3,405.0	77.6	65.7	1,778.5	839.8	1,778.5	839.8
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	19.4	3.8	21.9	6.3	21.9	6.3
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	26.4	18.3	29.4	18.3	29.4	18.3
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	3.7	2.7	3.7	2.7	3.7	2.7
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	49.9	49.0	105.1	94.2	105.1	94.2
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	9.6	8.7	19.6	8.7	19.6	8.7
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	1.3	1.4	1.3	1.4	1.3	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	23,927.8	19,717.0	332.4	215.9	0.0	0.0	2,986.5	3,049.6	1,373.0	1,326.6	0.0	0.0	28,619.7	24,309.1	300.8	206.3	633.2	422.2	633.2	422.2
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	4.3	3.3	16.3	3.3	16.3	3.3
Louisiana	0.0	0.0	0.0	0.0	0.0	0.0	192.0	192.0	495.1	450.1	0.0	0.0	687.1	642.1	119.0	88.4	119.0	88.4	119.0	88.4
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	2.3	1.8	4.8	1.8	4.8	1.8
Texas	18,476.6	15,787.1	317.9	215.9	0.0	0.0	668.7	670.8	489.3	491.9	0.0	0.0	19,952.5	17,165.7	175.2	112.9	493.1	328.8	493.1	328.8
Mountain	7,903.1	7,096.8	2,991.7	2,200.4	473.9	363.9	10,561.7	10,560.8	176.4	178.2	544.8	528.5	22,651.6	20,928.6	1,338.3	1,037.4	4,330.0	3,237.8	4,803.9	3,601.7
Arizona	267.3	237.3	1,273.1	1,118.3	295.4	295.4	2,720.9	2,720.9	30.7	34.7	0.0	0.0	4,587.4	4,406.6	709.4	593.2	1,982.5	1,711.5	2,277.9	2,006.9
Colorado	2,961.8	2,566.1	206.2	133.4	0.0	0.0	677.7	676.3	27.4	27.4	0.0	0.0	3,873.1	3,403.2	272.9	239.8	479.1	373.2	479.1	373.2
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	6.0	3.7	6.0	3.7	6.0	3.7
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	7.1	5.3	7.1	5.3	7.1	5.3
Nevada	150.0	150.0	950.6	669.5	178.5	68.5	1,051.4	1,051.4	3.2	3.2	460.2	443.9	2,793.9	2,386.5	169.8	89.4	1,120.4	758.9	1,298.9	827.4
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	85.9	68.3	401.3	337.3	401.3	337.3
Utah	388.2	324.4	246.4	10.2	0.0	0.0	256.4	256.4	14.2	12.0	73.0	73.0	978.2	676.0	85.0	36.1	331.4	46.3	331.4	46.3
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	NM
Pacific Contiguous	11,951.4	12,243.7	6,886.0	5,121.9	1,284.0	1,302.8	40,073.1	40,012.7	2,072.6	2,059.9	1,953.7	1,972.9	64,220.8	62,713.9	4,025.0	2,999.2	10,911.0	8,121.1	12,195.0	9,423.9
California	5,720.9	6,013.2	6,862.9	5,107.5	1,284.0	1,302.8	10,187.0	10,182.9	1,352.0	1,332.7	1,934.2	1,955.2	27,341.0	25,894.3	3,879.8	2,891.6	10,742.7	7,999.1	12,026.7	9,301.9
Oregon	3,157.4	3,157.4	22.6	13.9	0.0	0.0	8,525.4	8,519.8	317.6	331.2	19.5	17.7	12,042.5	12,040.0	83.4	67.8	106.0	81.7	106.0	81.7
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,360.7	21,310.0	403.0	396.0	0.0	0.0	24,837.3	24,779.6	61.9	39.9	62.4	40.4	62.4	40.4
Pacific Noncontiguous	266.2	265.6	50.7	32.2	0.0	0.0	466.1	465.5	260.4	254.1	43.0	43.0	1,086.4	1,060.4	411.6	347.8	462.3	380.0	462.3	380.0
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	50.7	32.2	0.0	0.0	25.0	25.0	253.4	247.1	43.0	43.0	577.7	552.9	411.6	347.8	462.3	380.0	462.3	380.0
U.S. Total	74,707.3	66,907.0	13,922.1	9,686.2	1,757.9	1,666.7	80,006.9	79,815.5	14,116.9	13,782.4	2,541.5	2,544.4	187,052.6	174,402.2	9,869.8	7,320.9	23,791.9	17,007.1	25,549.8	18,673.8

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, July 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	
	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 2015	July 2016	July 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	26,233.2	23,371.8	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	69,260.3	67,525.6
New Jersey	8,077.5	6,645.2	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	12,511.4
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	10,060.0	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	29,746.1	28,493.5
East North Central	17,036.6	17,025.5	25,915.5	25,652.9	3,901.4	3,487.5	62,768.3	66,688.1	317.6	521.6	2,729.8	2,730.8	1,143.1	934.7	113,812.3	117,041.1
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	3,833.7	3,543.8	2,465.8	2,862.0	9,451.0	10,848.4	47.2	47.2	530.5	525.0	250.0	0.0	20,874.7	22,118.9
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	11,380.8	11,517.8	3,811.0	3,500.5	35,219.4	36,930.2	32.0	32.0	4,096.1	4,083.6	8.4	8.4	60,582.6	61,824.3
Iowa	1,125.8	1,131.0	1,105.6	1,104.4	572.8	548.3	5,681.7	6,240.0	32.0	32.0	1,014.3	1,007.4	0.0	0.0	9,532.2	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	2,534.1	2,533.7	325.8	271.4	4,300.1	4,478.0	0.0	0.0	799.4	797.9	0.0	0.0	10,132.6	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	4,214.4	4,184.6	0.0	0.0	64.7	64.6	8.4	8.4	4,615.5	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	31,128.9	31,977.0	7,071.6	6,779.6	58,477.6	59,952.6	83.8	669.8	11,844.4	12,693.2	135.0	135.0	159,994.6	160,031.5
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	7,500.2	8,400.0	3,027.7	2,736.3	10,234.0	10,085.0	0.0	586.0	5,844.9	6,510.9	0.0	0.0	54,112.4	53,863.8
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	19,271.4	13,003.3	12,887.5	4,147.0	2,592.1	29,969.4	34,584.7	0.0	0.0	152.0	150.8	99.8	99.8	66,412.3	69,586.3
Alabama	9,397.8	9,391.3	2,530.6	2,530.6	636.3	189.3	7,979.4	10,539.4	0.0	0.0	42.6	42.6	99.8	99.8	20,686.5	22,793.0
Kentucky	663.3	891.0	4,976.6	4,870.6	260.0	0.0	13,092.7	13,671.7	0.0	0.0	11.9	11.9	0.0	0.0	19,004.5	19,445.2
Mississippi	7,576.7	7,586.1	1,718.9	1,716.9	3,247.5	2,381.6	1,820.0	2,526.0	0.0	0.0	44.3	43.1	0.0	0.0	14,407.4	14,253.7
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	35,018.4	35,952.0	36,432.5	37,929.9	959.3	903.2	181.3	185.4	659.8	330.8	145,605.3	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	9,117.8	8,933.5	2,855.1	3,418.6	895.5	892.6	45.5	49.1	407.4	25.2	23,295.8	23,516.9
Oklahoma	6,720.2	7,216.1	1,292.2	1,316.7	5,264.9	5,369.6	4,866.5	5,257.3	0.0	0.0	74.4	74.4	0.0	0.0	18,218.2	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	3,196.9	3,220.4	28,942.6	29,372.0	52.0	52.0	370.8	370.8	111.6	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	12.9	12.6	6,410.1	6,387.5	0.0	0.0	5.8	5.8	110.1	85.6	6,786.5	6,739.1
Pacific Contiguous	25,983.0	25,309.9	11,668.7	11,377.2	11,890.1	12,628.8	2,015.0	2,015.0	17.0	0.0	422.3	410.7	209.3	211.7	52,205.4	51,953.3
California	19,882.9	19,624.4	10,773.5	10,602.2	11,638.1	12,377.0	90.0	90.0	17.0	0.0	407.1	395.5	209.3	211.7	43,017.9	43,300.8
Oregon	3,429.6	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	4,372.8	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	239,446.2	232,325.2	124,681.2	124,500.9	83,386.7	80,365.8	272,421.9	288,261.7	1,540.3	2,190.2	34,865.8	36,901.1	2,500.4	1,914.3	758,842.5	766,459.2

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
2016	7	59273	62SK 8me, LLC	IPP	Springbok Solar Farm 1	CA	59532	SB1	100.0	Solar Photovoltaic	SUN	PV
2016	7	59050	Algonquin Power Co	IPP	Odell Wind Farm	MN	58657	1	200.0	Onshore Wind Turbine	WND	WT
2016	7	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK4	33.2	Solar Photovoltaic	SUN	PV
2016	7	60204	CB Bladen Solar, LLC	IPP	CB Bladen Solar, LLC	NC	60402	CBPV	5.2	Solar Photovoltaic	SUN	PV
2016	7	57044	Constellation Solar New Jersey, LLC	IPP	NHA at Mansfield NJ	NJ	60378	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	7	58468	Dominion Renewable Energy	IPP	Enterprise Solar, LLC	UT	59386	ENTS1	80.0	Solar Photovoltaic	SUN	PV
2016	7	59765	Eight Flags Energy LLC	Electric CHP	Eight Flags Energy	FL	60025	01	19.8	Natural Gas Fired Combustion Turbine	NG	GT
2016	7	59939	Floyd Solar, LLC	IPP	Floyd Solar, LLC	NC	60147	FLS1	6.5	Solar Photovoltaic	SUN	PV
2016	7	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	4	214.4	Natural Gas Fired Combined Cycle	NG	CT
2016	7	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	5	107.2	Natural Gas Fired Combined Cycle	NG	CA
2016	7	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	6	105.8	Natural Gas Fired Combustion Turbine	NG	GT
2016	7	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	7	105.8	Natural Gas Fired Combustion Turbine	NG	GT
2016	7	59120	Los Vientos Windpower IV, LLC	IPP	Los Vientos Windpower IV	TX	59321	GEN1	200.0	Onshore Wind Turbine	WND	WT
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U4J16	1.2	Landfill Gas	LFG	IC
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
2016	7	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	6A	122.0	Conventional Hydroelectric	WAT	HY
2016	7	58417	Panda Liberty O&M LLC	IPP	Panda Liberty Generation Plant	PA	58420	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CS
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
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
2016	7	59016	Passadumkeag Windpark LLC	IPP	Passadumkeag Windpark LLC	ME	59222	Q357	39.9	Onshore Wind Turbine	WND	WT
2016	7	15248	Portland General Electric Co	Electric Utility	Carty Generating Station	OR	58503	GEN1	300.0	Natural Gas Fired Combined Cycle	NG	CT
2016	7	15248	Portland General Electric Co	Electric Utility	Carty Generating Station	OR	58503	GEN2	200.0	Natural Gas Fired Combined Cycle	NG	CA
2016	7	60068	Red Horse III	IPP	Red Horse III	AZ	60285	RH3	30.0	Solar Photovoltaic	SUN	PV
2016	7	57313	SolarCity Corporation	IPP	Chesapeake College	MD	60465	PV1	1.5	Solar Photovoltaic	SUN	PV
2016	7	57313	SolarCity Corporation	IPP	Jackson Board of Education-Liberty HS	NJ	60113	PV1	1.2	Solar Photovoltaic	SUN	PV
2016	7	57313	SolarCity Corporation	IPP	Oregon Convention Center	OR	60112	PV1	1.4	Solar Photovoltaic	SUN	PV
2016	7	17650	Southern Power Co	IPP	RE Tranquillity	CA	59939	TQ	205.3	Solar Photovoltaic	SUN	PV
2016	7	17650	Southern Power Co	IPP	Stateline Solar	CA	58646	STL7	37.9	Solar Photovoltaic	SUN	PV
2016	7	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	1	18.6	Natural Gas Internal Combustion Engine	NG	IC
2016	7	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	2	18.6	Natural Gas Internal Combustion Engine	NG	IC
2016	7	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	3	18.6	Natural Gas Internal Combustion Engine	NG	IC
2016	7	58661	Sustainable Power Group, LLC	IPP	Summer Solar LLC	CA	60280	SUMSL	20.0	Solar Photovoltaic	SUN	PV
2016	7	59598	Tooele Army Depot	IPP	Tooele Wind Turbine	UT	59817	GEN03	1.7	Onshore Wind Turbine	WND	WT
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-1	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-2	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-3	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-4	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-5	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-6	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-7	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-8	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-9	0.5	Solar Photovoltaic	SUN	PV
2016	7	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV10	0.5	Solar Photovoltaic	SUN	PV
2016	7	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-1	0.5	Solar Photovoltaic	SUN	PV
2016	7	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-2	0.5	Solar Photovoltaic	SUN	PV
2016	7	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-3	0.5	Solar Photovoltaic	SUN	PV
2016	7	60237	Whitakers Farm, LLC	IPP	Whitakers Farm (Fisher Rd)	NC	60438	1	3.4	Solar Photovoltaic	SUN	PV
2016	7	59831	White Oak Solar, LLC	IPP	White Oak Solar, LLC	GA	60082	WHTOK	76.5	Solar Photovoltaic	SUN	PV
2016	7	59803	White Pine Solar, LLC	IPP	White Pine Solar, LLC	GA	60064	WHTPN	101.2	Solar Photovoltaic	SUN	PV
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (WI)	WI	59836	11	4.6	Conventional Hydroelectric	WAT	HY
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (WI)	WI	59836	12	4.6	Conventional Hydroelectric	WAT	HY
2016	7	20910	Wolverine Power Supply Coop	Electric Utility	Alpine Power Plant	MI	59926	AI2	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
2016	7	18947	City of Tipton - (IA)	Electric Utility	Tipton	IA	8106	4	0.3	Petroleum Liquids	DFO	IC
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U4J08	1.4	Landfill Gas	LFG	IC
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	1	1.3	Conventional Hydroelectric	WAT	HY
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	2	1.3	Conventional Hydroelectric	WAT	HY
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	3	1.3	Conventional Hydroelectric	WAT	HY
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	4	1.2	Conventional Hydroelectric	WAT	HY
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	5	1.2	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 6.5. 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	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	772	Archer Daniels Midland Co	Industrial	Archer Daniels Midland Cedar Rapids	IA	10864	GEN7	35.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	38.5
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	58540	California PV Energy LLC	IPP	CA Department of Public Health at Richmo	CA	60428	PV1	2.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.2
2016	8	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	8	17845	City of Springville - (UT)	Electric Utility	Whitehead	UT	7028	K6CAT	2.5	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 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	(V) Under construction, more than 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	(TS) Construction complete, but not yet in commercial operation	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	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	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	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	8	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	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	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	8	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	8	59745	First Solar Asset Management	IPP	Rancho Seco Solar, LLC	CA	60226	GEN01	10.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.8
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	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	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	60215	Hardison Farm Solar, LLC	IPP	Hardison Farm Solar, LLC	NC	60415	HFSPV	5.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.2
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	(V) Under construction, more than 50 percent complete	2.0
2016	8	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Washington Solar Park	IN	60252	SWASH	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2016	8	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	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	60213	Modlin Solar, LLC	IPP	Modlin Solar Farm	NC	60417	MSFPV	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2016	8	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	8	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	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	58489	OCI Solar Power	IPP	OCI Alamo Solar I	TX	58537	ASTRO	1.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	1.0
2016	8	58838	Parrey, LLC	IPP	Henrietta Solar Project	CA	58975	PV1	100.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	102.0
2016	8	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	60.0
2016	8	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	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	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	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	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	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	8	59108	WED Coventry Four, LLC	IPP	WED Coventry 4	RI	59306	WEDC4	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2016	8	59105	WED Coventry One, LLC	IPP	WED Coventry 1	RI	59301	WEDC1	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2016	8	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2016	8	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6A	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2016	8	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6B	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2016	8	59107	WED Coventry Three, LLC	IPP	WED Coventry 3	RI	59305	WEDC3	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2016	8	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2016	8	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2A	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
2016	8	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2B	1.5	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	1.5
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	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	60136	Boulder Solar Power, LLC	IPP	Boulder Solar Power, LLC	NV	60352	BSP	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
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	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	9	58519	Clean Energy Collective LLC	IPP	CPS 1	TX	60472	CPS1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
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	(TS) Construction complete, but not yet in commercial operation	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	Grove Solar Center, LLC	OR	60330	GSC1	6.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	(U) Under construction, less than or equal to 50 percent complete	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	58135	Ecos Energy LLC	IPP	Munro Valley Solar	CA	60412	MUN	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
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	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	9	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	9	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	9	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	9	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
2016	9	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	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	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	9	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

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	9	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	9	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	9	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	9	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	9	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	9	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	9	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	9	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	9	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	9	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	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	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	60214	Maxton Solar, LLC	IPP	Maxton Solar, LLC	NC	60416	MSPV	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2016	9	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	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	IGWF	28.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	28.6
2016	9	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF	43.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	43.0
2016	9	59600	Mohave Sunrise Solar I, LLC	IPP	Mohave Electric at Fort Mohave	AZ	59819	PV2	15.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	15.2
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	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	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	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	9	15500	Puget Sound Energy Inc	Electric Utility	Glacier Battery Storage	WA	60444	GLA	2.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	2.0
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	(V) Under construction, more than 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- Uxbridge	MA	60116	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
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	Oneida County- DPW	NY	60114	PV1	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
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	The Clorox Company	MD	60461	PV1	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2016	9	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	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	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	60216	Sullivan Solar, LLC	IPP	Sullivan Solar, LLC	IN	60410	SULPV	5.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.2
2016	9	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	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	(V) Under construction, more than 50 percent complete	2.0
2016	9	59731	Windham Solar LLC	IPP	Lebanon Solar 2	CT	59992	LEB2	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
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	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	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	57421	BayWa r.e Wind LLC	IPP	Chopin Wind LLC	OR	59076	WT1	10.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 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	(U) Under construction, less than or equal to 50 percent complete	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	(V) Under construction, more than 50 percent complete	230.0
2016	10	60201	Exum Farm Solar, LLC	IPP	Exum Farm Solar, LLC	NC	60400	FLS1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2016	10	25438	Friant Power Authority	IPP	Friant Hydro Facility	CA	50393	RO2	9.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.9
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	(V) Under construction, more than 50 percent complete	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	Ellettsville 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	(U) Under construction, less than or equal to 50 percent complete	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	(V) Under construction, more than 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	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	IGWF2	76.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.9
2016	10	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF2	62.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	62.4
2016	10	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	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	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	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	57313	SolarCity Corporation	IPP	Greene County Meter #1	NY	60463	PV1	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2016	10	17650	Southern Power Co	IPP	Butler Solar Project 103	GA	59896	1	103.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	Taylor County Solar	GA	59897	1	148.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	148.0
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	Elevation Solar C	CA	59964	ELVSC	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2016	10	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 4	CA	59317	BEAC4	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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

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	57369	Apple, Inc	IPP	Bonnybrooke PV	AZ	60413	AZPV1	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2016	11	60208	Chaves Solar LLC	IPP	Chaves Solar, LLC	NM	60405	CSPV	70.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	58519	Clean Energy Collective LLC	IPP	Westport MA 1	MA	60473	WPMA1	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2016	11	58519	Clean Energy Collective LLC	IPP	Westport MA 2	MA	60476	WPMA2	1.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.2
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	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	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	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	60199	Innovative Solar 65, LLC	IPP	Innovative Solar 65	NC	60398	FLS1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2016	11	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF3	96.6	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	96.6
2016	11	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF3	72.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	72.5
2016	11	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	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	60258	Paulding Wind Farm III LLC	IPP	Paulding Wind Farm III	OH	60470	1	100.8	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.8
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	(V) Under construction, more than 50 percent complete	20.0
2016	11	57313	SolarCity Corporation	IPP	Onondaga County- Clearwater	NY	60462	PV1	2.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.4
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	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	(V) Under construction, more than 50 percent complete	80.0
2016	11	58661	Sustainable Power Group, LLC	IPP	Solverde 1	CA	60185	SOLV1	85.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	20.0
2016	11	18454	Tampa Electric Co	Electric Utility	Legoland Solar	FL	60371	1	1.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	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	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	57412	Chisholm View Wind Project	IPP	Chisholm View Wind Project	OK	58041	2	64.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	64.8
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	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	(U) Under construction, less than or equal to 50 percent complete	50.0
2016	12	5416	Duke Energy Carolinas, LLC	IPP	Mocksville Solar	NC	59570	PV1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	Benthall Bridge PV 1	NC	59515	BENT1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	12	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	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	Drift Sand Wind Project LLC	OK	59065	WT1	109.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	150.0
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	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	(V) Under construction, more than 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	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	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	(V) Under construction, more than 50 percent complete	250.0
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	(V) Under construction, more than 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	(U) Under construction, less than or equal to 50 percent complete	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	49893	Invenergy Services LLC	IPP	Bethel Wind Farm LLC	TX	60414	GEN1	276.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	276.0
2016	12	60198	Kennedy Solar, LLC	IPP	Kennedy Solar, LLC	NC	60397	FLS1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2016	12	60200	Lincoln Solar, LLC	IPP	Lincoln Solar, LLC (NC)	NC	60399	FLS1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2016	12	60271	Longboat Solar, LLC	IPP	Longboat Solar, LLC	CA	60485	PV1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
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	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

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	59483	Metropolitan Airports Commission	IPP	St. Paul Intl Airport Red & Blue Parking	MN	59709	PV2	0.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.9
2016	12	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF4	98.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	98.9
2016	12	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF4	72.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	72.5
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	IPP	Courtenay Wind Farm	ND	58658	1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2016	12	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	12	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	12	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	12	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	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	59334	Rutherford Farm, LLC	IPP	Rutherford Farm	NC	59589	PV1	61.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	57313	SolarCity Corporation	IPP	Broome County	NY	60507	NORTH	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	12	57313	SolarCity Corporation	IPP	Broome County	NY	60507	SOUTH	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	12	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	12	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	12	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	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	60197	St. Pauls Solar 1, LLC	IPP	St. Pauls Solar 1, LLC	NC	60396	FLS1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.9
2016	12	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
2016	12	58658	Sunlight Partners	IPP	Beetle Solar	NC	59511	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2016	12	58658	Sunlight Partners	IPP	Carol Jean Solar	NC	59017	GEN 1	4.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.0
2016	12	58658	Sunlight Partners	IPP	Husky Solar	NC	59510	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	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	12	59826	Syncarpha Bondsville, LLC	IPP	Palmer Landfill	MA	60076	SYNPL	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2016	12	60071	Trinity Solar, LLC	IPP	Trinity Solar	NC	60291	PV1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	(T) Regulatory approvals received. 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	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
2016	12	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED1	2.0	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.0
2016	12	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED2	2.0	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	2.0
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	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	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	04	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	60.5
2017	1	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	05	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	60.5
2017	1	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
2017	1	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
2017	1	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
2017	1	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
2017	1	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
2017	1	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
2017	1	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
2017	1	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
2017	1	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
2017	1	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
2017	1	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
2017	1	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
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	59680	Lillington Solar LLC	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
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	Natural Gas Steam Turbine	NG	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	Natural Gas Steam Turbine	NG	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	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	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	(U) Under construction, less than or equal to 50 percent complete	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	59669	Louisburg Solar LLC	IPP	Louisburg Solar	NC	59895	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	2	60155	Old Settler Wind, LLC	IPP	Old Settler Wind	TX	60366	OSWF	151.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	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	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

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	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	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
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	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
2017	3	59319	Cotton Solar, LLC	IPP	Cotton Solar	SC	59572	PV1	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2017	3	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
2017	3	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
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	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
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	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
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	59761	McLean Homestead, LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2017	3	17470	PUD 1 of Snohomish County	Electric Utility	Calligan Creek Hydroelectric Project	WA	60418	CC6MW	6.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0
2017	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	3	59010	Rhubarb One LLC	IPP	Rhubarb One SC	SC	59596	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	3	59770	Shorthorn Holdings, LLC	IPP	Shorthorn Holdings	SC	60028	PV1	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2017	3	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
2017	3	59318	Soy Solar LLC	IPP	Soy Solar	NC	59571	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Alexis Solar	NC	60139	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Anna Solar	NC	60176	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Blue Bird Solar	NC	60177	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2017	3	58658	Sunlight Partners	IPP	Bonnie Solar	NC	60175	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Brooke Solar	NC	60140	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2017	3	58658	Sunlight Partners	IPP	Cardinal Solar	NC	60174	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Carter Solar	NC	60167	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Christina Solar	NC	60172	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	3	58658	Sunlight Partners	IPP	Clayton Solar	NC	60171	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Daystar Solar	NC	60179	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2017	3	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Hawk Solar	NC	60163	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2017	3	58658	Sunlight Partners	IPP	Higgins Solar	NC	60166	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Icarus Solar	NC	60169	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	3	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Jordan Solar	NC	60164	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	June Solar	NC	60158	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2017	3	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Sadie Solar	NC	60168	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Signature Solar	NC	60155	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58658	Sunlight Partners	IPP	Wilfork Solar	NC	60162	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	59011	Tiburon Holdings	IPP	Tiburon Holdings	NC	59217	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	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
2017	4	60252	Friendswood Energy Genco, LLC	IPP	Friendswood Energy	TX	60468	GT-1	117.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	121.5
2017	4	59257	Giffen Solar Park, LLC	IPP	Giffen Solar Park	CA	59522	FRGSP	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. 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	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
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	59474	BQ Energy LLC	IPP	Kings Park Solar I	NY	59880	KIPS1	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	5	59474	BQ Energy LLC	IPP	Kings Park Solar II	NY	59881	KIPS2	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT4	307.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	360.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT5	307.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	360.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	STG6	454.9	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	511.2
2017	5	59745	First Solar Asset Management	IPP	Playa Solar 2	NV	60261	GEN1	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. 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	59446	Innovative Solar 55, LLC	IPP	Innovative Solar 55	NC	59676	IS044	6.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.5
2017	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	60217	San Bernardino Valley Municipal Water District	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	1.0
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	(U) Under construction, less than or equal to 50 percent complete	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	60248	Agilon Energy LLC	IPP	Chamon Power LLC	TX	60460	CH1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2017	6	60248	Agilon Energy LLC	IPP	Chamon Power LLC	TX	60460	CH2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2017	6	60248	Agilon Energy LLC	IPP	Port Comfort Power LLC	TX	60459	PC1	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
2017	6	60248	Agilon Energy LLC	IPP	Port Comfort Power LLC	TX	60459	PC2	43.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	50.0
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	56771	Black Hills Service Company LLC	IPP	Pueblo Airport Generating Station	CO	56998	CT08	37.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 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	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	6	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	147.5	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	158.4
2017	6	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor	MA	1626	6	147.5	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	158.4
2017	6	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor	MA	1626	7	217.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	240.7
2017	6	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor	MA	1626	8	217.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	240.7
2017	6	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
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	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
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	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
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	(T) Regulatory approvals received. Not under construction	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	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	(L) Regulatory approvals pending. Not under construction	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	(U) Under construction, less than or equal to 50 percent complete	77.7
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	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	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	9	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	9	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	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	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	9	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	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
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	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	12	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	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB002	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2017	12	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	Hiilangaay Hydro	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	5.0
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	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
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 Tranquility 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	60178	Shoe Creek Solar, LLC	IPP	Shoe Creek Solar, LLC	NC	60380	SCSPV	5.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.2
2017	12	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	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar A, LLC	CA	60481	BSHRA	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar B, LLC	CA	60474	BSHRB	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	58661	Sustainable Power Group, LLC	IPP	Bayshore Solar C, LLC	CA	60475	BSHRC	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	12	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
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	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	1	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2018	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

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	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	58959	Freeport LNG Development L.P	Industrial	Freeport LP Pretreatment Facility	TX	59145	65GTG	77.5	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	97.0
2018	2	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
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	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
2018	7	59056	Tri Global Energy, LLC	IPP	Bearkat	TX	59972	BRKAT	360.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	360.0
2018	7	59056	Tri Global Energy, LLC	IPP	Blue Cloud Renewable Energy Project, LLC	TX	60270	WT1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	7	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	11	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	56769	Consolidated Edison Development Inc.	IPP	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	ST	191.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	227.7
2018	12	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	60259	Green River Wind Farm, LLC	IPP	Green River Wind Farm	IL	60471	GRNRV	212.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	212.0
2018	12	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	59138	SunPower Corporation, Systems	IPP	Aragonne Solar LLC	NM	59252	PV1	38.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG1	276.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	CTG2	276.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	370.0
2018	12	60249	Tenaska Pennsylvania Partners, LLC	IPP	Tenaska Westmoreland Generating Station	PA	60464	STG1	374.0	Natural Gas Steam Turbine	NG	ST	(T) Regulatory approvals received. Not under construction	394.0
2018	12	2782	Terra-Gen Operating Company	IPP	Dixie Valley Power Partnership	NV	10681	GEN1	25.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	28.0
2018	12	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	59056	Tri Global Energy, LLC	IPP	Cone Renewable Energy Project, LLC	TX	60272	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	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 with 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 with 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
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

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	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	8	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2016	8	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
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	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J98	1.0	Landfill Gas	LFG	IC
2016	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3	103.8	Conventional Hydroelectric	WAT	HY
2016	8	57433	ReEnergy Chateaugay LLC	IPP	ReEnergy Chateaugay Power Station	NY	50277	GEN1	18.0	Wood/Wood Waste Biomass	WDS	ST
2016	9	14534	City of Pasadena - (CA)	Electric Utility	Broadway (CA)	CA	420	B3	71.0	Natural Gas Steam Turbine	NG	ST
2016	10	6035	Exelon Power	IPP	Exelon L Street	MA	1587	GT1	16.0	Petroleum Liquids	DFO	GT
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
2016	12	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2016	12	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2016	12	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2016	12	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2016	12	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2016	12	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
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	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN18	0.4	Conventional Hydroelectric	WAT	HY
2017	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN19	0.4	Conventional Hydroelectric	WAT	HY
2017	5	16721	S D Warren Co.- Westbrook	Industrial	S D Warren Westbrook	ME	50447	GN20	0.4	Conventional Hydroelectric	WAT	HY
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	55951	Exelon Nuclear	IPP	Clinton Power Station	IL	204	1	1,065.0	Nuclear	NUC	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	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
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

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	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	55951	Exelon Nuclear	IPP	Quad Cities Generating Station	IL	880	1	908.0	Nuclear	NUC	ST
2018	6	55951	Exelon Nuclear	IPP	Quad Cities Generating Station	IL	880	2	911.0	Nuclear	NUC	ST
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	7	7308	Hawkeye Energy Greenport LLC	IPP	Hawkeye Energy Greenport LLC	NY	55969	U-01	52.7	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	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	2	66.0	Natural Gas Steam Turbine	NG	ST
2019	12	56706	Chevron Technology Ventures	IPP	Questa Solar Facility	NM	57369	QST	1.0	Solar Photovoltaic	SUN	PV
2019	12	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
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

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	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
2046	12	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN1	382.5	Natural Gas Fired Combined Cycle	NG	CS
2046	12	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CS

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-July 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%
July	69.3%	68.6%	14.2%	22.7%	NA	16.1%	2.5%	7.2%

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-July 2016

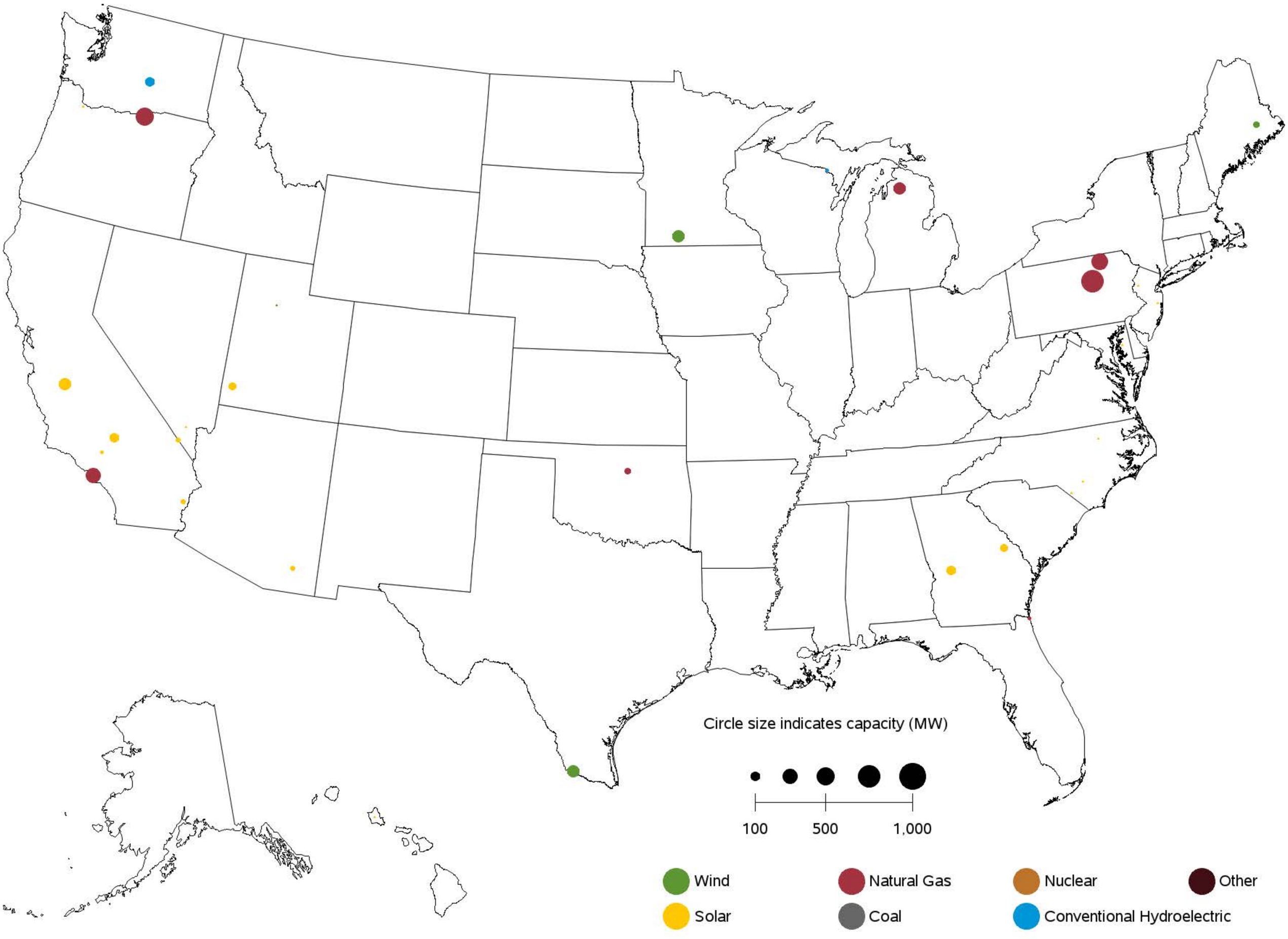
Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.2%	35.9%	32.5%	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%
July	94.7%	35.8%	32.0%	34.8%	36.9%	72.8%	52.4%	72.7%

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.

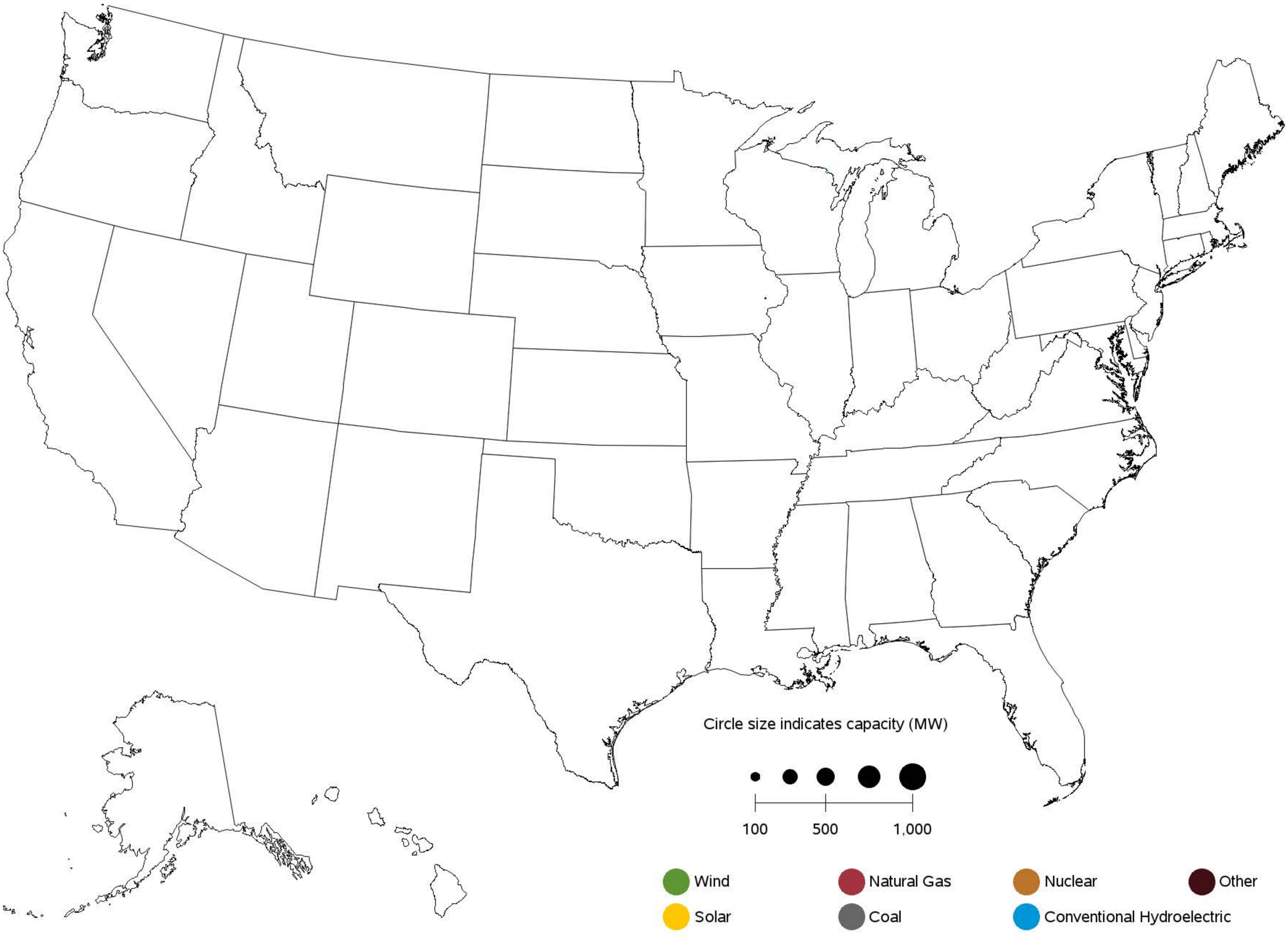
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



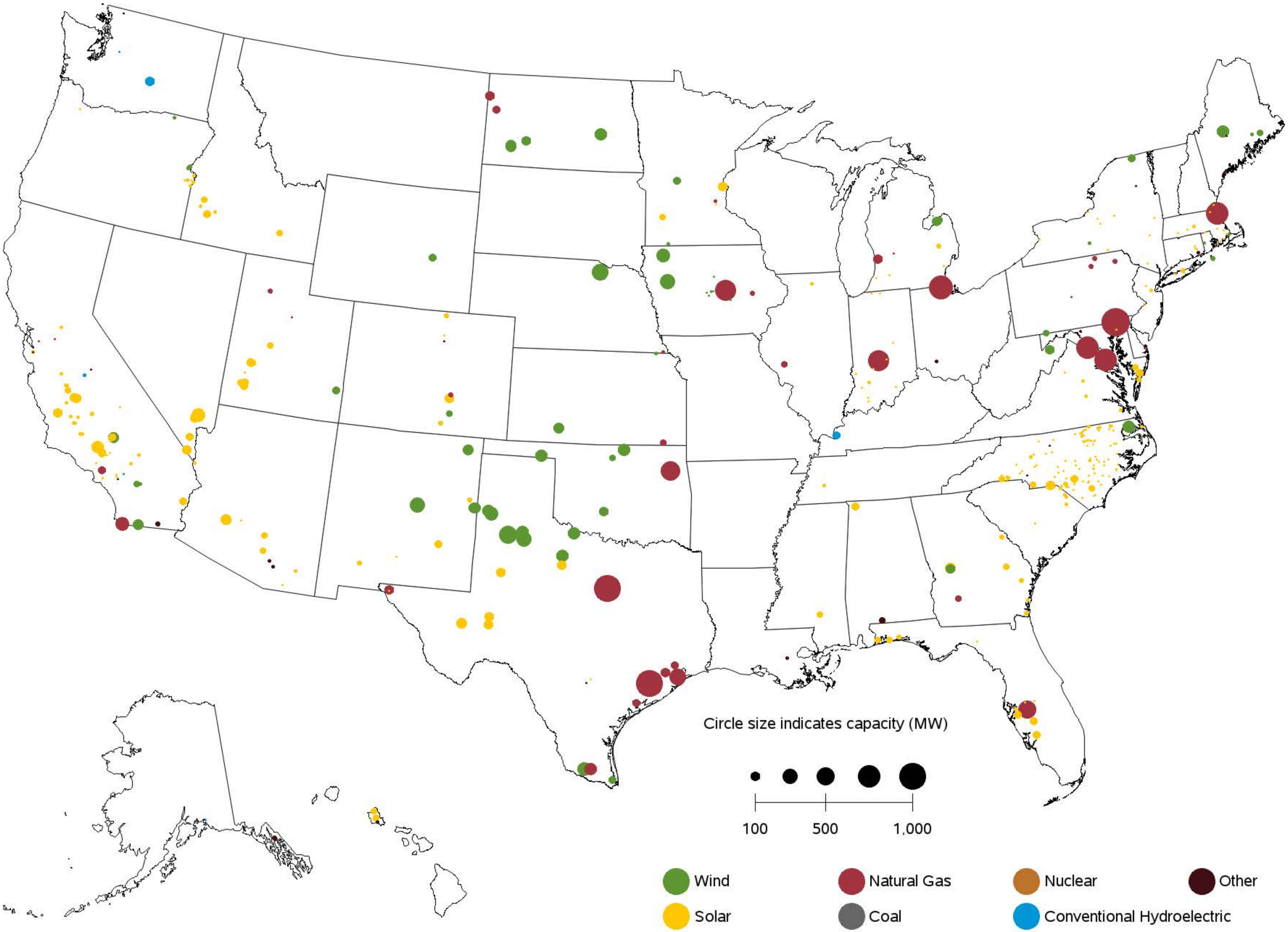
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



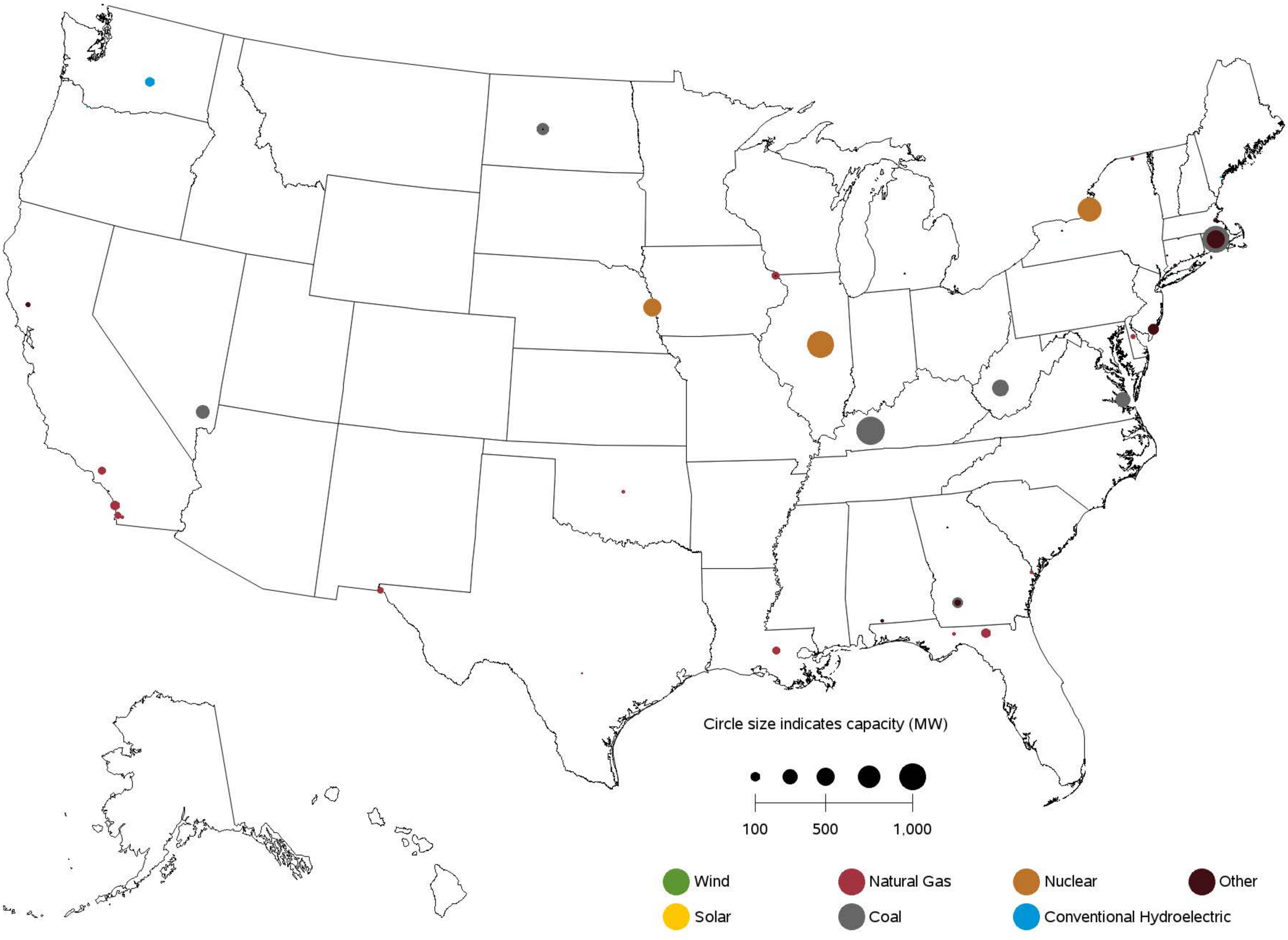
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**1**	**18**	**0**	**1**	**0**	**0**	**19**
Connecticut	0	36	0	2	0	0	86
Maine	0	50	0	3	0	0	25
Massachusetts	2	26	0	2	0	0	56
New Hampshire	0	34	0	1	0	0	45
Rhode Island	0	114	0	2	0	0	715
Vermont	0	922	0	0	0	0	52
Middle Atlantic	**1**	**18**	**71**	**1**	**21**	**0**	**4**
New Jersey	0	209	195	2	83	0	231
New York	0	22	0	2	0	0	4
Pennsylvania	1	27	74	1	16	0	36
East North Central	**0**	**6**	**7**	**1**	**11**	**0**	**20**
Illinois	1	35	0	3	61	0	104
Indiana	0	18	0	2	14	0	22
Michigan	1	6	16	3	0	0	39
Ohio	1	7	4	2	36	0	45
Wisconsin	0	24	0	3	0	0	32
West North Central	**0**	**16**	**109**	**4**	**187**	**0**	**6**
Iowa	1	19	109	9	0	0	54
Kansas	0	18	0	15	0	0	340
Minnesota	2	43	0	3	0	0	63
Missouri	1	23	0	8	0	0	8
Nebraska	2	37	0	15	0	0	45
North Dakota	1	42	0	37	187	0	0
South Dakota	0	218	0	19	0	0	1
South Atlantic	**0**	**4**	**0**	**0**	**0**	**0**	**10**
Delaware	0	82	0	4	0	0	0
District of Columbia	0	0	0	92	0	0	0
Florida	0	2	0	0	0	0	124
Georgia	0	41	0	1	0	0	20
Maryland	0	25	0	4	0	0	5
North Carolina	1	41	0	1	0	0	16
South Carolina	0	38	0	2	0	0	28
Virginia	2	4	0	0	0	0	18
West Virginia	0	0	0	1	0	0	30
East South Central	**0**	**15**	**0**	**1**	**78**	**0**	**8**
Alabama	1	108	0	1	113	0	15
Kentucky	1	5	0	4	0	0	7
Mississippi	0	23	0	1	0	0	0
Tennessee	0	4	0	1	0	0	14
West South Central	**0**	**30**	**5**	**0**	**4**	**0**	**7**
Arkansas	0	0	0	1	0	0	11
Louisiana	0	2	4	2	6	0	0
Oklahoma	1	360	0	1	0	0	13
Texas	0	38	60	1	4	0	21
Mountain	**1**	**13**	**0**	**1**	**50**	**0**	**4**
Arizona	1	6	0	1	0	0	2
Colorado	0	140	0	3	0	0	28
Idaho	86	16,461	0	6	0	0	9
Montana	3	47	0	34	0	0	7
Nevada	0	0	0	0	0	0	5
New Mexico	0	37	0	4	0	0	131
Utah	1	19	0	5	0	0	60
Wyoming	2	23	0	50	50	0	7
Pacific Contiguous	**0**	**8**	**0**	**1**	**5**	**0**	**2**
California	0	8	0	2	7	0	7
Oregon	0	49	0	1	0	0	4
Washington	0	40	0	3	0	0	2
Pacific Noncontiguous	**6**	**4**	**0**	**15**	**88**	**0**	**30**
Alaska	17	6	0	15	0	0	30
Hawaii	6	4	0	0	88	0	130
U.S. Total	**0**	**3**	**3**	**0**	**5**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, July 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**	**11**	**3**	**0**	**4**	**1**
Connecticut	0	0	0	65	4	0	5	1
Maine	0	0	0	0	2	0	12	5
Massachusetts	0	0	0	12	7	0	4	2
New Hampshire	0	0	0	0	13	0	28	2
Rhode Island	0	0	0	64	10	0	0	2
Vermont	0	0	0	39	14	0	0	29
Middle Atlantic	**0**	**0**	**0**	**8**	**2**	**0**	**3**	**1**
New Jersey	0	0	0	9	6	0	5	1
New York	0	0	0	23	3	0	6	1
Pennsylvania	0	0	0	23	3	0	5	1
East North Central	**0**	**0**	**0**	**15**	**2**	**0**	**6**	**0**
Illinois	0	0	0	29	1	0	20	1
Indiana	0	0	0	20	4	0	3	1
Michigan	0	0	0	99	4	0	8	1
Ohio	0	0	0	29	6	0	0	1
Wisconsin	0	0	0	159	4	0	30	1
West North Central	**0**	**0**	**0**	**51**	**1**	**0**	**9**	**0**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	259	0	0	142	1
Minnesota	0	0	0	113	3	0	10	1
Missouri	0	0	0	64	4	0	0	1
Nebraska	0	0	0	129	2	0	0	2
North Dakota	0	0	0	0	1	0	40	1
South Dakota	0	0	0	0	2	0	0	3
South Atlantic	**0**	**0**	**0**	**5**	**2**	**0**	**3**	**0**
Delaware	0	0	0	29	22	0	0	4
District of Columbia	0	0	0	0	0	0	0	92
Florida	0	0	0	14	4	0	3	0
Georgia	0	0	0	9	4	0	0	0
Maryland	0	0	0	20	5	0	0	1
North Carolina	0	0	0	6	5	0	17	1
South Carolina	0	0	0	98	5	0	15	1
Virginia	0	0	0	149	2	0	6	0
West Virginia	0	0	0	0	1	0	0	0
East South Central	**0**	**0**	**0**	**29**	**4**	**0**	**10**	**0**
Alabama	0	0	0	0	6	0	0	1
Kentucky	0	0	0	0	4	0	0	1
Mississippi	0	0	0	0	4	0	211	1
Tennessee	0	0	0	34	11	0	0	1
West South Central	**0**	**0**	**0**	**6**	**0**	**0**	**8**	**0**
Arkansas	0	0	0	75	5	0	0	1
Louisiana	0	0	0	0	7	0	9	1
Oklahoma	0	0	0	0	0	0	25	1
Texas	0	0	0	6	0	0	9	0
Mountain	**0**	**5**	**0**	**2**	**1**	**0**	**4**	**0**
Arizona	0	0	0	2	2	0	0	1
Colorado	0	0	0	9	1	0	55	1
Idaho	0	48	0	0	6	0	0	5
Montana	0	0	0	0	4	0	0	3
Nevada	0	6	0	3	3	0	83	1
New Mexico	0	128	0	9	3	0	0	1
Utah	0	11	0	8	4	0	4	2
Wyoming	0	0	0	0	2	0	0	2
Pacific Contiguous	**0**	**4**	**0**	**1**	**1**	**0**	**8**	**1**
California	0	4	0	1	1	0	9	1
Oregon	0	13	0	45	2	0	30	2
Washington	0	0	0	0	1	0	25	1
Pacific Noncontiguous	**0**	**0**	**0**	**33**	**7**	**0**	**0**	**4**
Alaska	0	0	0	0	40	0	0	11
Hawaii	0	0	0	33	6	0	0	3
U.S. Total	**0**	**4**	**0**	**1**	**0**	**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.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**1**	**18**	**0**	**1**	**0**	**0**	**19**
Connecticut	0	36	0	2	0	0	86
Maine	0	50	0	3	0	0	25
Massachusetts	2	26	0	2	0	0	56
New Hampshire	0	34	0	1	0	0	45
Rhode Island	0	114	0	2	0	0	715
Vermont	0	922	0	0	0	0	52
Middle Atlantic	**1**	**18**	**71**	**1**	**21**	**0**	**4**
New Jersey	0	209	195	2	83	0	231
New York	0	22	0	2	0	0	4
Pennsylvania	1	27	74	1	16	0	36
East North Central	**0**	**6**	**7**	**1**	**11**	**0**	**20**
Illinois	1	35	0	3	61	0	104
Indiana	0	18	0	2	14	0	22
Michigan	1	6	16	3	0	0	39
Ohio	1	7	4	2	36	0	45
Wisconsin	0	24	0	3	0	0	32
West North Central	**0**	**16**	**109**	**4**	**187**	**0**	**6**
Iowa	1	19	109	9	0	0	54
Kansas	0	18	0	15	0	0	340
Minnesota	2	43	0	3	0	0	63
Missouri	1	23	0	8	0	0	8
Nebraska	2	37	0	15	0	0	45
North Dakota	1	42	0	37	187	0	0
South Dakota	0	218	0	19	0	0	1
South Atlantic	**0**	**4**	**0**	**0**	**0**	**0**	**10**
Delaware	0	82	0	4	0	0	0
District of Columbia	0	0	0	92	0	0	0
Florida	0	2	0	0	0	0	124
Georgia	0	41	0	1	0	0	20
Maryland	0	25	0	4	0	0	5
North Carolina	1	41	0	1	0	0	16
South Carolina	0	38	0	2	0	0	28
Virginia	2	4	0	0	0	0	18
West Virginia	0	0	0	1	0	0	30
East South Central	**0**	**15**	**0**	**1**	**78**	**0**	**8**
Alabama	1	108	0	1	113	0	15
Kentucky	1	5	0	4	0	0	7
Mississippi	0	23	0	1	0	0	0
Tennessee	0	4	0	1	0	0	14
West South Central	**0**	**30**	**5**	**0**	**4**	**0**	**7**
Arkansas	0	0	0	1	0	0	11
Louisiana	0	2	4	2	6	0	0
Oklahoma	1	360	0	1	0	0	13
Texas	0	38	60	1	4	0	21
Mountain	**1**	**13**	**0**	**1**	**50**	**0**	**4**
Arizona	1	6	0	1	0	0	2
Colorado	0	140	0	3	0	0	28
Idaho	86	16,461	0	6	0	0	9
Montana	3	47	0	34	0	0	7
Nevada	0	0	0	0	0	0	5
New Mexico	0	37	0	4	0	0	131
Utah	1	19	0	5	0	0	60
Wyoming	2	23	0	50	50	0	7
Pacific Contiguous	**0**	**8**	**0**	**1**	**5**	**0**	**2**
California	0	8	0	2	7	0	7
Oregon	0	49	0	1	0	0	4
Washington	0	40	0	3	0	0	2
Pacific Noncontiguous	**6**	**4**	**0**	**15**	**88**	**0**	**30**
Alaska	17	6	0	15	0	0	30
Hawaii	6	4	0	0	88	0	130
U.S. Total	**0**	**3**	**3**	**0**	**5**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through July 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**	**11**	**3**	**0**	**4**	**1**
Connecticut	0	0	0	65	4	0	5	1
Maine	0	0	0	0	2	0	12	5
Massachusetts	0	0	0	12	7	0	4	2
New Hampshire	0	0	0	0	13	0	28	2
Rhode Island	0	0	0	64	10	0	0	2
Vermont	0	0	0	39	14	0	0	29
Middle Atlantic	**0**	**0**	**0**	**8**	**2**	**0**	**3**	**1**
New Jersey	0	0	0	9	6	0	5	1
New York	0	0	0	23	3	0	6	1
Pennsylvania	0	0	0	23	3	0	5	1
East North Central	**0**	**0**	**0**	**15**	**2**	**0**	**6**	**0**
Illinois	0	0	0	29	1	0	20	1
Indiana	0	0	0	20	4	0	3	1
Michigan	0	0	0	99	4	0	8	1
Ohio	0	0	0	29	6	0	0	1
Wisconsin	0	0	0	159	4	0	30	1
West North Central	**0**	**0**	**0**	**51**	**1**	**0**	**9**	**0**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	259	0	0	142	1
Minnesota	0	0	0	113	3	0	10	1
Missouri	0	0	0	64	4	0	0	1
Nebraska	0	0	0	129	2	0	0	2
North Dakota	0	0	0	0	1	0	40	1
South Dakota	0	0	0	0	2	0	0	3
South Atlantic	**0**	**0**	**0**	**5**	**2**	**0**	**3**	**0**
Delaware	0	0	0	29	22	0	0	4
District of Columbia	0	0	0	0	0	0	0	92
Florida	0	0	0	14	4	0	3	0
Georgia	0	0	0	9	4	0	0	0
Maryland	0	0	0	20	5	0	0	1
North Carolina	0	0	0	6	5	0	17	1
South Carolina	0	0	0	98	5	0	15	1
Virginia	0	0	0	149	2	0	6	0
West Virginia	0	0	0	0	1	0	0	0
East South Central	**0**	**0**	**0**	**29**	**4**	**0**	**10**	**0**
Alabama	0	0	0	0	6	0	0	1
Kentucky	0	0	0	0	4	0	0	1
Mississippi	0	0	0	0	4	0	211	1
Tennessee	0	0	0	34	11	0	0	1
West South Central	**0**	**0**	**0**	**6**	**0**	**0**	**8**	**0**
Arkansas	0	0	0	75	5	0	0	1
Louisiana	0	0	0	0	7	0	9	1
Oklahoma	0	0	0	0	0	0	25	1
Texas	0	0	0	6	0	0	9	0
Mountain	**0**	**5**	**0**	**2**	**1**	**0**	**4**	**0**
Arizona	0	0	0	2	2	0	0	1
Colorado	0	0	0	9	1	0	55	1
Idaho	0	48	0	0	6	0	0	5
Montana	0	0	0	0	4	0	0	3
Nevada	0	6	0	3	3	0	83	1
New Mexico	0	128	0	9	3	0	0	1
Utah	0	11	0	8	4	0	4	2
Wyoming	0	0	0	0	2	0	0	2
Pacific Contiguous	**0**	**4**	**0**	**1**	**1**	**0**	**8**	**1**
California	0	4	0	1	1	0	9	1
Oregon	0	13	0	45	2	0	30	2
Washington	0	0	0	0	1	0	25	1
Pacific Noncontiguous	**0**	**0**	**0**	**33**	**7**	**0**	**0**	**4**
Alaska	0	0	0	0	40	0	0	11
Hawaii	0	0	0	33	6	0	0	3
U.S. Total	**0**	**4**	**0**	**1**	**0**	**0**	**2**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**22**	**0**	**6**	**0**	**0**	**50**
Connecticut	0	128	0	0	0	0	303
Maine	0	268	0	0	0	0	0
Massachusetts	0	29	0	8	0	0	102
New Hampshire	0	19	0	0	0	0	67
Rhode Island	0	33	0	0	0	0	0
Vermont	0	1,180	0	0	0	0	81
Middle Atlantic	**0**	**30**	**0**	**6**	**0**	**0**	**2**
New Jersey	0	1,818	0	168	0	0	0
New York	0	29	0	6	0	0	2
Pennsylvania	0	101	0	378	0	0	199
East North Central	**0**	**8**	**0**	**2**	**20**	**0**	**21**
Illinois	0	85	0	17	0	0	260
Indiana	0	18	0	3	140	0	22
Michigan	1	5	0	3	0	0	41
Ohio	2	14	0	5	0	0	17
Wisconsin	0	24	0	2	0	0	34
West North Central	**0**	**11**	**0**	**4**	**0**	**0**	**6**
Iowa	1	19	0	8	0	0	54
Kansas	0	18	0	16	0	0	0
Minnesota	2	20	0	3	0	0	82
Missouri	1	23	0	11	0	0	8
Nebraska	1	37	0	15	0	0	45
North Dakota	1	41	0	37	0	0	0
South Dakota	0	222	0	19	0	0	1
South Atlantic	**0**	**3**	**0**	**0**	**0**	**0**	**11**
Delaware	0	963	0	207	0	0	0
Florida	0	1	0	0	0	0	124
Georgia	0	17	0	0	0	0	20
Maryland	0	130	0	0	0	0	0
North Carolina	0	42	0	1	0	0	16
South Carolina	0	35	0	2	0	0	28
Virginia	0	2	0	0	0	0	15
West Virginia	0	0	0	0	0	0	85
East South Central	**0**	**2**	**0**	**1**	**0**	**0**	**8**
Alabama	1	0	0	3	0	0	15
Kentucky	1	5	0	4	0	0	7
Mississippi	0	23	0	1	0	0	0
Tennessee	0	1	0	0	0	0	14
West South Central	**0**	**19**	**0**	**1**	**0**	**0**	**8**
Arkansas	0	0	0	3	0	0	11
Louisiana	0	2	0	2	0	0	0
Oklahoma	0	19	0	1	0	0	13
Texas	0	28	0	1	0	0	19
Mountain	**0**	**15**	**0**	**1**	**0**	**0**	**4**
Arizona	1	6	0	2	0	0	2
Colorado	0	141	0	2	0	0	27
Idaho	0	16,461	0	6	0	0	9
Montana	89	237	0	36	0	0	7
Nevada	0	0	0	0	0	0	0
New Mexico	0	37	0	7	0	0	131
Utah	0	3	0	5	0	0	61
Wyoming	1	8	0	94	0	0	6
Pacific Contiguous	**0**	**18**	**0**	**3**	**0**	**0**	**2**
California	0	10	0	4	0	0	6
Oregon	0	0	0	1	0	0	4
Washington	0	670	0	5	0	0	2
Pacific Noncontiguous	**0**	**4**	**0**	**15**	**0**	**0**	**30**
Alaska	0	7	0	15	0	0	30
Hawaii	0	4	0	0	0	0	327
U.S. Total	**0**	**2**	**0**	**0**	**20**	**0**	**2**

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

Electric Utilities by Census Division and State, July 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**	**61**	**4**	**0**	**0**	**10**
Connecticut	0	0	0	175	175	0	0	209
Maine	0	0	0	0	0	0	0	268
Massachusetts	0	0	0	63	57	0	0	20
New Hampshire	0	0	0	0	0	0	0	7
Rhode Island	0	0	0	0	0	0	0	33
Vermont	0	0	0	0	0	0	0	32
Middle Atlantic	**0**	**0**	**0**	**29**	**29**	**0**	**0**	**3**
New Jersey	0	0	0	29	29	0	0	25
New York	0	0	0	0	0	0	0	3
Pennsylvania	0	0	0	0	0	0	0	185
East North Central	**0**	**0**	**0**	**43**	**2**	**0**	**0**	**1**
Illinois	0	0	0	211	138	0	0	4
Indiana	0	0	0	61	14	0	0	1
Michigan	0	0	0	99	3	0	0	1
Ohio	0	0	0	61	76	0	0	2
Wisconsin	0	0	0	0	1	0	0	1
West North Central	**0**	**0**	**0**	**0**	**1**	**0**	**5**	**1**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	0	0	0	0	1
Minnesota	0	0	0	0	5	0	0	1
Missouri	0	0	0	0	27	0	0	1
Nebraska	0	0	0	0	13	0	0	2
North Dakota	0	0	0	0	1	0	40	1
South Dakota	0	0	0	0	2	0	0	3
South Atlantic	**0**	**0**	**0**	**13**	**3**	**0**	**0**	**0**
Delaware	0	0	0	79	79	0	0	186
Florida	0	0	0	16	12	0	0	0
Georgia	0	0	0	21	21	0	0	0
Maryland	0	0	0	67	67	0	0	69
North Carolina	0	0	0	24	24	0	0	0
South Carolina	0	0	0	0	5	0	0	0
Virginia	0	0	0	149	1	0	0	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**35**	**0**	**0**	**0**
Alabama	0	0	0	0	297	0	0	1
Kentucky	0	0	0	0	18	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**	**0**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0	1
Louisiana	0	0	0	0	0	0	0	1
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	0	0	0	0	1
Mountain	**0**	**0**	**0**	**9**	**3**	**0**	**86**	**1**
Arizona	0	0	0	9	9	0	0	1
Colorado	0	0	0	0	21	0	0	1
Idaho	0	0	0	0	71	0	0	7
Montana	0	0	0	0	0	0	0	7
Nevada	0	0	0	67	67	0	83	0
New Mexico	0	0	0	21	21	0	0	2
Utah	0	0	0	0	0	0	0	2
Wyoming	0	0	0	0	1	0	0	1
Pacific Contiguous	**0**	**3**	**0**	**11**	**1**	**0**	**0**	**1**
California	0	0	0	11	3	0	0	3
Oregon	0	164	0	81	2	0	0	3
Washington	0	0	0	0	0	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**53**	**37**	**0**	**0**	**6**
Alaska	0	0	0	0	64	0	0	11
Hawaii	0	0	0	53	41	0	0	4
U.S. Total	**0**	**2**	**0**	**6**	**1**	**0**	**6**	**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 July 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**22**	**0**	**6**	**0**	**0**	**50**
Connecticut	0	128	0	0	0	0	303
Maine	0	268	0	0	0	0	0
Massachusetts	0	29	0	8	0	0	102
New Hampshire	0	19	0	0	0	0	67
Rhode Island	0	33	0	0	0	0	0
Vermont	0	1,180	0	0	0	0	81
Middle Atlantic	**0**	**30**	**0**	**6**	**0**	**0**	**2**
New Jersey	0	1,818	0	168	0	0	0
New York	0	29	0	6	0	0	2
Pennsylvania	0	101	0	378	0	0	199
East North Central	**0**	**8**	**0**	**2**	**20**	**0**	**21**
Illinois	0	85	0	17	0	0	260
Indiana	0	18	0	3	140	0	22
Michigan	1	5	0	3	0	0	41
Ohio	2	14	0	5	0	0	17
Wisconsin	0	24	0	2	0	0	34
West North Central	**0**	**11**	**0**	**4**	**0**	**0**	**6**
Iowa	1	19	0	8	0	0	54
Kansas	0	18	0	16	0	0	0
Minnesota	2	20	0	3	0	0	82
Missouri	1	23	0	11	0	0	8
Nebraska	1	37	0	15	0	0	45
North Dakota	1	41	0	37	0	0	0
South Dakota	0	222	0	19	0	0	1
South Atlantic	**0**	**3**	**0**	**0**	**0**	**0**	**11**
Delaware	0	963	0	207	0	0	0
Florida	0	1	0	0	0	0	124
Georgia	0	17	0	0	0	0	20
Maryland	0	130	0	0	0	0	0
North Carolina	0	42	0	1	0	0	16
South Carolina	0	35	0	2	0	0	28
Virginia	0	2	0	0	0	0	15
West Virginia	0	0	0	0	0	0	85
East South Central	**0**	**2**	**0**	**1**	**0**	**0**	**8**
Alabama	1	0	0	3	0	0	15
Kentucky	1	5	0	4	0	0	7
Mississippi	0	23	0	1	0	0	0
Tennessee	0	1	0	0	0	0	14
West South Central	**0**	**19**	**0**	**1**	**0**	**0**	**8**
Arkansas	0	0	0	3	0	0	11
Louisiana	0	2	0	2	0	0	0
Oklahoma	0	19	0	1	0	0	13
Texas	0	28	0	1	0	0	19
Mountain	**0**	**15**	**0**	**1**	**0**	**0**	**4**
Arizona	1	6	0	2	0	0	2
Colorado	0	141	0	2	0	0	27
Idaho	0	16,461	0	6	0	0	9
Montana	89	237	0	36	0	0	7
Nevada	0	0	0	0	0	0	0
New Mexico	0	37	0	7	0	0	131
Utah	0	3	0	5	0	0	61
Wyoming	1	8	0	94	0	0	6
Pacific Contiguous	**0**	**18**	**0**	**3**	**0**	**0**	**2**
California	0	10	0	4	0	0	6
Oregon	0	0	0	1	0	0	4
Washington	0	670	0	5	0	0	2
Pacific Noncontiguous	**0**	**4**	**0**	**15**	**0**	**0**	**30**
Alaska	0	7	0	15	0	0	30
Hawaii	0	4	0	0	0	0	327
U.S. Total	**0**	**2**	**0**	**0**	**20**	**0**	**2**

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

Electric Utilities by Census Division and State, Year-to-Date through July 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**	**61**	**4**	**0**	**0**	**10**
Connecticut	0	0	0	175	175	0	0	209
Maine	0	0	0	0	0	0	0	268
Massachusetts	0	0	0	63	57	0	0	20
New Hampshire	0	0	0	0	0	0	0	7
Rhode Island	0	0	0	0	0	0	0	33
Vermont	0	0	0	0	0	0	0	32
Middle Atlantic	**0**	**0**	**0**	**29**	**29**	**0**	**0**	**3**
New Jersey	0	0	0	29	29	0	0	25
New York	0	0	0	0	0	0	0	3
Pennsylvania	0	0	0	0	0	0	0	185
East North Central	**0**	**0**	**0**	**43**	**2**	**0**	**0**	**1**
Illinois	0	0	0	211	138	0	0	4
Indiana	0	0	0	61	14	0	0	1
Michigan	0	0	0	99	3	0	0	1
Ohio	0	0	0	61	76	0	0	2
Wisconsin	0	0	0	0	1	0	0	1
West North Central	**0**	**0**	**0**	**0**	**1**	**0**	**5**	**1**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	0	0	0	0	1
Minnesota	0	0	0	0	5	0	0	1
Missouri	0	0	0	0	27	0	0	1
Nebraska	0	0	0	0	13	0	0	2
North Dakota	0	0	0	0	1	0	40	1
South Dakota	0	0	0	0	2	0	0	3
South Atlantic	**0**	**0**	**0**	**13**	**3**	**0**	**0**	**0**
Delaware	0	0	0	79	79	0	0	186
Florida	0	0	0	16	12	0	0	0
Georgia	0	0	0	21	21	0	0	0
Maryland	0	0	0	67	67	0	0	69
North Carolina	0	0	0	24	24	0	0	0
South Carolina	0	0	0	0	5	0	0	0
Virginia	0	0	0	149	1	0	0	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**35**	**0**	**0**	**0**
Alabama	0	0	0	0	297	0	0	1
Kentucky	0	0	0	0	18	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**	**0**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0	1
Louisiana	0	0	0	0	0	0	0	1
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	0	0	0	0	1
Mountain	**0**	**0**	**0**	**9**	**3**	**0**	**86**	**1**
Arizona	0	0	0	9	9	0	0	1
Colorado	0	0	0	0	21	0	0	1
Idaho	0	0	0	0	71	0	0	7
Montana	0	0	0	0	0	0	0	7
Nevada	0	0	0	67	67	0	83	0
New Mexico	0	0	0	21	21	0	0	2
Utah	0	0	0	0	0	0	0	2
Wyoming	0	0	0	0	1	0	0	1
Pacific Contiguous	**0**	**3**	**0**	**11**	**1**	**0**	**0**	**1**
California	0	0	0	11	3	0	0	3
Oregon	0	164	0	81	2	0	0	3
Washington	0	0	0	0	0	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**53**	**37**	**0**	**0**	**6**
Alaska	0	0	0	0	64	0	0	11
Hawaii	0	0	0	53	41	0	0	4
U.S. Total	**0**	**2**	**0**	**6**	**1**	**0**	**6**	**0**

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

Independent Power Producers by Census Division and State, July 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**19**	**0**	**1**	**0**	**0**	**22**
Connecticut	0	32	0	2	0	0	89
Maine	0	29	0	1	0	0	27
Massachusetts	0	27	0	2	0	0	68
New Hampshire	0	844	0	0	0	0	55
Rhode Island	0	0	0	2	0	0	715
Vermont	0	0	0	0	0	0	65
Middle Atlantic	**1**	**20**	**0**	**1**	**0**	**0**	**23**
New Jersey	0	207	0	2	0	0	231
New York	0	28	0	2	0	0	28
Pennsylvania	1	28	0	1	0	0	36
East North Central	**1**	**7**	**0**	**1**	**13**	**0**	**72**
Illinois	1	0	0	2	0	0	88
Indiana	3	5,604	0	4	0	0	0
Michigan	6	0	0	4	0	0	153
Ohio	0	7	0	1	42	0	130
Wisconsin	0	0	0	0	0	0	158
West North Central	**134**	**287**	**0**	**3**	**0**	**0**	**100**
Iowa	0	126	0	1,237	0	0	621
Kansas	0	0	0	0	0	0	340
Minnesota	0	314	0	5	0	0	106
Missouri	134	0	0	2	0	0	0
South Dakota	0	459	0	0	0	0	0
South Atlantic	**1**	**17**	**0**	**1**	**0**	**0**	**23**
Delaware	0	68	0	4	0	0	0
Florida	0	48	0	3	0	0	0
Georgia	0	2,542	0	1	0	0	339
Maryland	0	25	0	4	0	0	5
North Carolina	41	260	0	0	0	0	220
South Carolina	0	441	0	5	0	0	183
Virginia	15	13	0	1	0	0	210
West Virginia	1	0	0	4	0	0	0
East South Central	**0**	**86**	**0**	**0**	**0**	**0**	**641**
Alabama	0	135	0	0	0	0	0
Kentucky	0	0	0	0	0	0	641
Mississippi	0	0	0	0	0	0	0
Tennessee	0	112	0	586	0	0	0
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**10**
Arkansas	0	0	0	0	0	0	289
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	1	0	0	0
Texas	0	0	0	0	0	0	300
Mountain	**4**	**10**	**0**	**1**	**0**	**0**	**30**
Arizona	0	0	0	0	0	0	0
Colorado	136	0	0	11	0	0	108
Idaho	0	0	0	18	0	0	30
Montana	3	5	0	108	0	0	126
Nevada	0	0	0	7	0	0	242
New Mexico	0	0	0	1	0	0	0
Utah	66	614	0	61	0	0	574
Wyoming	58	0	0	866	0	0	505
Pacific Contiguous	**0**	**47**	**0**	**2**	**0**	**0**	**29**
California	0	131	0	2	0	0	34
Oregon	0	0	0	2	0	0	79
Washington	0	8	0	0	0	0	82
Pacific Noncontiguous	**4**	**10**	**0**	**0**	**0**	**0**	**0**
Alaska	51	0	0	0	0	0	0
Hawaii	0	10	0	0	0	0	0
U.S. Total	**0**	**8**	**0**	**0**	**6**	**0**	**11**

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

Independent Power Producers by Census Division and State, July 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**	**12**	**4**	**0**	**3**	**1**
Connecticut	0	0	0	69	4	0	5	1
Maine	0	0	0	0	1	0	8	6
Massachusetts	0	0	0	13	7	0	4	2
New Hampshire	0	0	0	0	16	0	28	2
Rhode Island	0	0	0	64	8	0	0	2
Vermont	0	0	0	39	36	0	0	45
Middle Atlantic	**0**	**0**	**0**	**9**	**2**	**0**	**3**	**1**
New Jersey	0	0	0	11	7	0	7	1
New York	0	0	0	23	2	0	4	1
Pennsylvania	0	0	0	26	3	0	5	1
East North Central	**0**	**0**	**0**	**16**	**2**	**0**	**13**	**0**
Illinois	0	0	0	28	1	0	0	0
Indiana	0	0	0	21	3	0	0	2
Michigan	0	0	0	0	6	0	13	2
Ohio	0	0	0	33	6	0	0	0
Wisconsin	0	0	0	159	8	0	0	1
West North Central	**0**	**0**	**0**	**57**	**1**	**0**	**18**	**1**
Iowa	0	0	0	0	2	0	0	1
Kansas	0	0	0	259	0	0	0	1
Minnesota	0	0	0	113	4	0	18	4
Missouri	0	0	0	80	4	0	0	2
Nebraska	0	0	0	129	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**	**5**	**3**	**0**	**3**	**1**
Delaware	0	0	0	32	21	0	0	4
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	27	4	0	3	2
Georgia	0	0	0	10	8	0	0	1
Maryland	0	0	0	22	5	0	0	1
North Carolina	0	0	0	6	5	0	17	4
South Carolina	0	0	0	98	44	0	136	6
Virginia	0	0	0	0	4	0	0	2
West Virginia	0	0	0	0	1	0	0	1
East South Central	**0**	**0**	**0**	**35**	**10**	**0**	**0**	**0**
Alabama	0	0	0	0	5	0	0	0
Kentucky	0	0	0	0	92	0	0	4
Mississippi	0	0	0	0	59	0	0	0
Tennessee	0	0	0	35	21	0	0	37
West South Central	**0**	**0**	**0**	**6**	**0**	**0**	**25**	**0**
Arkansas	0	0	0	75	30	0	0	0
Louisiana	0	0	0	0	22	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	6	0	0	76	0
Mountain	**0**	**6**	**0**	**2**	**1**	**0**	**2**	**1**
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	9	1	0	1,232	4
Idaho	0	48	0	0	7	0	0	9
Montana	0	0	0	0	5	0	0	3
Nevada	0	6	0	2	3	0	0	3
New Mexico	0	128	0	9	2	0	0	1
Utah	0	21	0	8	4	0	170	11
Wyoming	0	0	0	0	4	0	0	19
Pacific Contiguous	**0**	**4**	**0**	**1**	**1**	**0**	**11**	**1**
California	0	4	0	1	1	0	12	1
Oregon	0	0	0	52	2	0	30	2
Washington	0	0	0	0	1	0	25	1
Pacific Noncontiguous	**0**	**0**	**0**	**41**	**7**	**0**	**0**	**4**
Alaska	0	0	0	0	91	0	0	45
Hawaii	0	0	0	41	6	0	0	4
U.S. Total	**0**	**4**	**0**	**1**	**0**	**0**	**2**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**19**	**0**	**1**	**0**	**0**	**22**
Connecticut	0	32	0	2	0	0	89
Maine	0	29	0	1	0	0	27
Massachusetts	0	27	0	2	0	0	68
New Hampshire	0	844	0	0	0	0	55
Rhode Island	0	0	0	2	0	0	715
Vermont	0	0	0	0	0	0	65
Middle Atlantic	**1**	**20**	**0**	**1**	**0**	**0**	**23**
New Jersey	0	207	0	2	0	0	231
New York	0	28	0	2	0	0	28
Pennsylvania	1	28	0	1	0	0	36
East North Central	**1**	**7**	**0**	**1**	**13**	**0**	**72**
Illinois	1	0	0	2	0	0	88
Indiana	3	5,604	0	4	0	0	0
Michigan	6	0	0	4	0	0	153
Ohio	0	7	0	1	42	0	130
Wisconsin	0	0	0	0	0	0	158
West North Central	**134**	**287**	**0**	**3**	**0**	**0**	**100**
Iowa	0	126	0	1,237	0	0	621
Kansas	0	0	0	0	0	0	340
Minnesota	0	314	0	5	0	0	106
Missouri	134	0	0	2	0	0	0
South Dakota	0	459	0	0	0	0	0
South Atlantic	**1**	**17**	**0**	**1**	**0**	**0**	**23**
Delaware	0	68	0	4	0	0	0
Florida	0	48	0	3	0	0	0
Georgia	0	2,542	0	1	0	0	339
Maryland	0	25	0	4	0	0	5
North Carolina	41	260	0	0	0	0	220
South Carolina	0	441	0	5	0	0	183
Virginia	15	13	0	1	0	0	210
West Virginia	1	0	0	4	0	0	0
East South Central	**0**	**86**	**0**	**0**	**0**	**0**	**641**
Alabama	0	135	0	0	0	0	0
Kentucky	0	0	0	0	0	0	641
Mississippi	0	0	0	0	0	0	0
Tennessee	0	112	0	586	0	0	0
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**10**
Arkansas	0	0	0	0	0	0	289
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	1	0	0	0
Texas	0	0	0	0	0	0	300
Mountain	**4**	**10**	**0**	**1**	**0**	**0**	**30**
Arizona	0	0	0	0	0	0	0
Colorado	136	0	0	11	0	0	108
Idaho	0	0	0	18	0	0	30
Montana	3	5	0	108	0	0	126
Nevada	0	0	0	7	0	0	242
New Mexico	0	0	0	1	0	0	0
Utah	66	614	0	61	0	0	574
Wyoming	58	0	0	866	0	0	505
Pacific Contiguous	**0**	**47**	**0**	**2**	**0**	**0**	**29**
California	0	131	0	2	0	0	34
Oregon	0	0	0	2	0	0	79
Washington	0	8	0	0	0	0	82
Pacific Noncontiguous	**4**	**10**	**0**	**0**	**0**	**0**	**0**
Alaska	51	0	0	0	0	0	0
Hawaii	0	10	0	0	0	0	0
U.S. Total	**0**	**8**	**0**	**0**	**6**	**0**	**11**

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

Independent Power Producers by Census Division and State, Year-to-Date through July 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**	**12**	**4**	**0**	**3**	**1**
Connecticut	0	0	0	69	4	0	5	1
Maine	0	0	0	0	1	0	8	6
Massachusetts	0	0	0	13	7	0	4	2
New Hampshire	0	0	0	0	16	0	28	2
Rhode Island	0	0	0	64	8	0	0	2
Vermont	0	0	0	39	36	0	0	45
Middle Atlantic	**0**	**0**	**0**	**9**	**2**	**0**	**3**	**1**
New Jersey	0	0	0	11	7	0	7	1
New York	0	0	0	23	2	0	4	1
Pennsylvania	0	0	0	26	3	0	5	1
East North Central	**0**	**0**	**0**	**16**	**2**	**0**	**13**	**0**
Illinois	0	0	0	28	1	0	0	0
Indiana	0	0	0	21	3	0	0	2
Michigan	0	0	0	0	6	0	13	2
Ohio	0	0	0	33	6	0	0	0
Wisconsin	0	0	0	159	8	0	0	1
West North Central	**0**	**0**	**0**	**57**	**1**	**0**	**18**	**1**
Iowa	0	0	0	0	2	0	0	1
Kansas	0	0	0	259	0	0	0	1
Minnesota	0	0	0	113	4	0	18	4
Missouri	0	0	0	80	4	0	0	2
Nebraska	0	0	0	129	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**	**5**	**3**	**0**	**3**	**1**
Delaware	0	0	0	32	21	0	0	4
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	27	4	0	3	2
Georgia	0	0	0	10	8	0	0	1
Maryland	0	0	0	22	5	0	0	1
North Carolina	0	0	0	6	5	0	17	4
South Carolina	0	0	0	98	44	0	136	6
Virginia	0	0	0	0	4	0	0	2
West Virginia	0	0	0	0	1	0	0	1
East South Central	**0**	**0**	**0**	**35**	**10**	**0**	**0**	**0**
Alabama	0	0	0	0	5	0	0	0
Kentucky	0	0	0	0	92	0	0	4
Mississippi	0	0	0	0	59	0	0	0
Tennessee	0	0	0	35	21	0	0	37
West South Central	**0**	**0**	**0**	**6**	**0**	**0**	**25**	**0**
Arkansas	0	0	0	75	30	0	0	0
Louisiana	0	0	0	0	22	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	6	0	0	76	0
Mountain	**0**	**6**	**0**	**2**	**1**	**0**	**2**	**1**
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	9	1	0	1,232	4
Idaho	0	48	0	0	7	0	0	9
Montana	0	0	0	0	5	0	0	3
Nevada	0	6	0	2	3	0	0	3
New Mexico	0	128	0	9	2	0	0	1
Utah	0	21	0	8	4	0	170	11
Wyoming	0	0	0	0	4	0	0	19
Pacific Contiguous	**0**	**4**	**0**	**1**	**1**	**0**	**11**	**1**
California	0	4	0	1	1	0	12	1
Oregon	0	0	0	52	2	0	30	2
Washington	0	0	0	0	1	0	25	1
Pacific Noncontiguous	**0**	**0**	**0**	**41**	**7**	**0**	**0**	**4**
Alaska	0	0	0	0	91	0	0	45
Hawaii	0	0	0	41	6	0	0	4
U.S. Total	**0**	**4**	**0**	**1**	**0**	**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, July 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**124**	**0**	**20**	**0**	**0**	**644**
Connecticut	0	820	0	38	0	0	0
Maine	0	593	0	150	0	0	0
Massachusetts	0	152	0	20	0	0	644
New Hampshire	0	309	0	192	0	0	0
Rhode Island	0	243	0	106	0	0	0
Vermont	0	1,134	0	0	0	0	0
Middle Atlantic	**291**	**254**	**0**	**19**	**0**	**0**	**480**
New Jersey	0	1,821	0	53	0	0	0
New York	0	261	0	20	0	0	480
Pennsylvania	291	936	0	58	0	0	0
East North Central	**51**	**123**	**0**	**23**	**0**	**0**	**818**
Illinois	189	64	0	19	0	0	818
Indiana	43	1,481	0	32	0	0	0
Michigan	0	116	0	45	0	0	0
Ohio	443	285	0	64	0	0	0
Wisconsin	572	233	0	131	0	0	0
West North Central	**62**	**104**	**0**	**65**	**0**	**0**	**0**
Iowa	61	271	0	151	0	0	0
Minnesota	629	110	0	128	0	0	0
Missouri	0	295	0	0	0	0	0
Nebraska	0	0	0	1,040	0	0	0
North Dakota	0	352	0	0	0	0	0
South Dakota	0	734	0	0	0	0	0
South Atlantic	**63**	**275**	**0**	**30**	**0**	**0**	**290**
District of Columbia	0	0	0	92	0	0	0
Florida	0	0	0	112	0	0	0
Georgia	0	69	0	0	0	0	0
Maryland	0	2,169	0	35	0	0	0
North Carolina	0	181	0	0	0	0	281
South Carolina	0	1,095	0	190	0	0	924
Virginia	264	626	0	370	0	0	0
East South Central	**0**	**580**	**0**	**63**	**0**	**0**	**0**
Mississippi	0	0	0	205	0	0	0
Tennessee	0	580	0	65	0	0	0
West South Central	**0**	**2,348**	**0**	**24**	**0**	**0**	**0**
Arkansas	0	0	0	552	0	0	0
Louisiana	0	0	0	73	0	0	0
Oklahoma	0	39,111	0	131	0	0	0
Texas	0	1,828	0	25	0	0	0
Mountain	**0**	**690**	**0**	**19**	**0**	**0**	**502**
Arizona	0	690	0	33	0	0	0
Colorado	0	0	0	0	0	0	502
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	47	0	0	0
New Mexico	0	0	0	37	0	0	0
Utah	0	0	0	41	0	0	0
Pacific Contiguous	**0**	**779**	**0**	**13**	**0**	**0**	**287**
California	0	814	0	10	0	0	287
Oregon	0	22,961	0	191	0	0	0
Washington	0	501	0	318	0	0	0
Pacific Noncontiguous	**40**	**64**	**0**	**423**	**0**	**0**	**0**
Alaska	40	161	0	423	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**29**	**96**	**0**	**9**	**0**	**0**	**182**

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, July 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**	**96**	**35**	**0**	**35**	**17**
Connecticut	0	0	0	0	0	0	0	38
Maine	0	0	0	0	45	0	35	32
Massachusetts	0	0	0	96	83	0	0	21
New Hampshire	0	0	0	0	74	0	0	82
Rhode Island	0	0	0	0	230	0	0	91
Vermont	0	0	0	0	231	0	0	285
Middle Atlantic	**0**	**0**	**0**	**20**	**13**	**0**	**14**	**11**
New Jersey	0	0	0	20	12	0	0	16
New York	0	0	0	236	30	0	23	15
Pennsylvania	0	0	0	77	54	0	0	46
East North Central	**0**	**0**	**0**	**111**	**17**	**0**	**12**	**18**
Illinois	0	0	0	0	332	0	0	19
Indiana	0	0	0	0	103	0	78	25
Michigan	0	0	0	0	14	0	11	28
Ohio	0	0	0	111	137	0	0	60
Wisconsin	0	0	0	0	77	0	0	106
West North Central	**0**	**0**	**0**	**259**	**25**	**0**	**53**	**38**
Iowa	0	0	0	0	85	0	0	69
Minnesota	0	0	0	0	76	0	53	87
Missouri	0	0	0	259	9	0	0	3
Nebraska	0	0	0	0	117	0	0	134
North Dakota	0	0	0	0	0	0	0	352
South Dakota	0	0	0	0	0	0	0	734
South Atlantic	**0**	**0**	**0**	**24**	**14**	**0**	**12**	**15**
Delaware	0	0	0	139	165	0	0	165
District of Columbia	0	0	0	0	0	0	0	92
Florida	0	0	0	157	83	0	0	86
Georgia	0	0	0	107	107	0	0	77
Maryland	0	0	0	91	73	0	0	33
North Carolina	0	0	0	25	24	0	0	19
South Carolina	0	0	0	0	0	0	0	190
Virginia	0	0	0	0	16	0	12	14
East South Central	**0**	**0**	**0**	**109**	**109**	**0**	**0**	**61**
Mississippi	0	0	0	0	0	0	0	205
Tennessee	0	0	0	109	109	0	0	63
West South Central	**0**	**0**	**0**	**133**	**55**	**0**	**0**	**23**
Arkansas	0	0	0	0	214	0	0	263
Louisiana	0	0	0	0	0	0	0	73
Oklahoma	0	0	0	0	0	0	0	132
Texas	0	0	0	133	56	0	0	23
Mountain	**0**	**0**	**0**	**28**	**27**	**0**	**0**	**18**
Arizona	0	0	0	50	50	0	0	28
Colorado	0	0	0	49	55	0	0	106
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	38	38	0	0	30
New Mexico	0	0	0	0	234	0	0	36
Utah	0	0	0	0	0	0	0	41
Pacific Contiguous	**0**	**0**	**0**	**24**	**12**	**0**	**0**	**10**
California	0	0	0	24	12	0	0	8
Oregon	0	0	0	0	98	0	0	154
Washington	0	0	0	0	110	0	0	204
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**10**	**0**	**0**	**9**
Alaska	0	0	0	0	63	0	0	38
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**12**	**7**	**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 July 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**124**	**0**	**20**	**0**	**0**	**644**
Connecticut	0	820	0	38	0	0	0
Maine	0	593	0	150	0	0	0
Massachusetts	0	152	0	20	0	0	644
New Hampshire	0	309	0	192	0	0	0
Rhode Island	0	243	0	106	0	0	0
Vermont	0	1,134	0	0	0	0	0
Middle Atlantic	**291**	**254**	**0**	**19**	**0**	**0**	**480**
New Jersey	0	1,821	0	53	0	0	0
New York	0	261	0	20	0	0	480
Pennsylvania	291	936	0	58	0	0	0
East North Central	**51**	**123**	**0**	**23**	**0**	**0**	**818**
Illinois	189	64	0	19	0	0	818
Indiana	43	1,481	0	32	0	0	0
Michigan	0	116	0	45	0	0	0
Ohio	443	285	0	64	0	0	0
Wisconsin	572	233	0	131	0	0	0
West North Central	**62**	**104**	**0**	**65**	**0**	**0**	**0**
Iowa	61	271	0	151	0	0	0
Minnesota	629	110	0	128	0	0	0
Missouri	0	295	0	0	0	0	0
Nebraska	0	0	0	1,040	0	0	0
North Dakota	0	352	0	0	0	0	0
South Dakota	0	734	0	0	0	0	0
South Atlantic	**63**	**275**	**0**	**30**	**0**	**0**	**290**
District of Columbia	0	0	0	92	0	0	0
Florida	0	0	0	112	0	0	0
Georgia	0	69	0	0	0	0	0
Maryland	0	2,169	0	35	0	0	0
North Carolina	0	181	0	0	0	0	281
South Carolina	0	1,095	0	190	0	0	924
Virginia	264	626	0	370	0	0	0
East South Central	**0**	**580**	**0**	**63**	**0**	**0**	**0**
Mississippi	0	0	0	205	0	0	0
Tennessee	0	580	0	65	0	0	0
West South Central	**0**	**2,348**	**0**	**24**	**0**	**0**	**0**
Arkansas	0	0	0	552	0	0	0
Louisiana	0	0	0	73	0	0	0
Oklahoma	0	39,111	0	131	0	0	0
Texas	0	1,828	0	25	0	0	0
Mountain	**0**	**690**	**0**	**19**	**0**	**0**	**502**
Arizona	0	690	0	33	0	0	0
Colorado	0	0	0	0	0	0	502
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	47	0	0	0
New Mexico	0	0	0	37	0	0	0
Utah	0	0	0	41	0	0	0
Pacific Contiguous	**0**	**779**	**0**	**13**	**0**	**0**	**287**
California	0	814	0	10	0	0	287
Oregon	0	22,961	0	191	0	0	0
Washington	0	501	0	318	0	0	0
Pacific Noncontiguous	**40**	**64**	**0**	**423**	**0**	**0**	**0**
Alaska	40	161	0	423	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**29**	**96**	**0**	**9**	**0**	**0**	**182**

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 July 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**	**96**	**35**	**0**	**35**	**17**
Connecticut	0	0	0	0	0	0	0	38
Maine	0	0	0	0	45	0	35	32
Massachusetts	0	0	0	96	83	0	0	21
New Hampshire	0	0	0	0	74	0	0	82
Rhode Island	0	0	0	0	230	0	0	91
Vermont	0	0	0	0	231	0	0	285
Middle Atlantic	**0**	**0**	**0**	**20**	**13**	**0**	**14**	**11**
New Jersey	0	0	0	20	12	0	0	16
New York	0	0	0	236	30	0	23	15
Pennsylvania	0	0	0	77	54	0	0	46
East North Central	**0**	**0**	**0**	**111**	**17**	**0**	**12**	**18**
Illinois	0	0	0	0	332	0	0	19
Indiana	0	0	0	0	103	0	78	25
Michigan	0	0	0	0	14	0	11	28
Ohio	0	0	0	111	137	0	0	60
Wisconsin	0	0	0	0	77	0	0	106
West North Central	**0**	**0**	**0**	**259**	**25**	**0**	**53**	**38**
Iowa	0	0	0	0	85	0	0	69
Minnesota	0	0	0	0	76	0	53	87
Missouri	0	0	0	259	9	0	0	3
Nebraska	0	0	0	0	117	0	0	134
North Dakota	0	0	0	0	0	0	0	352
South Dakota	0	0	0	0	0	0	0	734
South Atlantic	**0**	**0**	**0**	**24**	**14**	**0**	**12**	**15**
Delaware	0	0	0	139	165	0	0	165
District of Columbia	0	0	0	0	0	0	0	92
Florida	0	0	0	157	83	0	0	86
Georgia	0	0	0	107	107	0	0	77
Maryland	0	0	0	91	73	0	0	33
North Carolina	0	0	0	25	24	0	0	19
South Carolina	0	0	0	0	0	0	0	190
Virginia	0	0	0	0	16	0	12	14
East South Central	**0**	**0**	**0**	**109**	**109**	**0**	**0**	**61**
Mississippi	0	0	0	0	0	0	0	205
Tennessee	0	0	0	109	109	0	0	63
West South Central	**0**	**0**	**0**	**133**	**55**	**0**	**0**	**23**
Arkansas	0	0	0	0	214	0	0	263
Louisiana	0	0	0	0	0	0	0	73
Oklahoma	0	0	0	0	0	0	0	132
Texas	0	0	0	133	56	0	0	23
Mountain	**0**	**0**	**0**	**28**	**27**	**0**	**0**	**18**
Arizona	0	0	0	50	50	0	0	28
Colorado	0	0	0	49	55	0	0	106
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	38	38	0	0	30
New Mexico	0	0	0	0	234	0	0	36
Utah	0	0	0	0	0	0	0	41
Pacific Contiguous	**0**	**0**	**0**	**24**	**12**	**0**	**0**	**10**
California	0	0	0	24	12	0	0	8
Oregon	0	0	0	0	98	0	0	154
Washington	0	0	0	0	110	0	0	204
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**10**	**0**	**0**	**9**
Alaska	0	0	0	0	63	0	0	38
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**12**	**7**	**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, July 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**69**	**312**	**0**	**20**	**0**	**0**	**64**
Connecticut	0	1,121	0	35	0	0	0
Maine	0	300	0	24	0	0	64
Massachusetts	139	884	0	60	0	0	613
New Hampshire	0	439	0	137	0	0	0
Middle Atlantic	**14**	**58**	**71**	**17**	**21**	**0**	**242**
New Jersey	0	1,587	195	38	83	0	0
New York	0	39	0	29	0	0	242
Pennsylvania	30	139	74	21	16	0	0
East North Central	**8**	**53**	**77**	**22**	**16**	**0**	**116**
Illinois	8	2,738	0	35	62	0	0
Indiana	174	11	0	25	14	0	0
Michigan	81	450	80	54	0	0	296
Ohio	36	428	731	73	60	0	0
Wisconsin	17	207	0	94	0	0	126
West North Central	**10**	**203**	**121**	**51**	**187**	**0**	**221**
Iowa	10	427	121	138	0	0	0
Kansas	0	0	0	57	0	0	0
Minnesota	27	209	0	112	0	0	221
Missouri	118	0	0	344	0	0	0
Nebraska	37	0	0	172	0	0	0
North Dakota	78	730	0	325	187	0	0
South Atlantic	**25**	**75**	**0**	**7**	**0**	**0**	**23**
Delaware	0	0	0	0	0	0	0
Florida	84	147	0	17	0	0	0
Georgia	49	142	0	18	0	0	463
Maryland	0	118	0	56	0	0	0
North Carolina	83	148	0	51	0	0	902
South Carolina	46	0	0	74	0	0	0
Virginia	46	309	0	22	0	0	489
West Virginia	0	0	0	0	0	0	15
East South Central	**16**	**155**	**0**	**12**	**78**	**0**	**0**
Alabama	103	160	0	17	113	0	0
Kentucky	0	0	0	48	0	0	0
Mississippi	0	0	0	37	0	0	0
Tennessee	0	502	0	8	0	0	0
West South Central	**55**	**471**	**59**	**2**	**5**	**0**	**0**
Arkansas	0	0	0	36	0	0	0
Louisiana	0	0	72	2	6	0	0
Oklahoma	60	2,682	0	74	0	0	0
Texas	0	539	60	2	9	0	0
Mountain	**9**	**113**	**0**	**20**	**50**	**0**	**0**
Colorado	375	734	0	91	0	0	0
Idaho	86	0	0	55	0	0	0
Montana	261	0	0	0	0	0	0
Nevada	0	0	0	27	0	0	0
New Mexico	0	338	0	91	0	0	0
Utah	0	1,030	0	17	0	0	0
Wyoming	35	104	0	58	50	0	0
Pacific Contiguous	**0**	**5**	**0**	**3**	**7**	**0**	**0**
California	0	3	0	3	7	0	0
Oregon	0	0	0	56	0	0	0
Washington	0	91	0	0	0	0	0
Pacific Noncontiguous	**171**	**44**	**0**	**210**	**88**	**0**	**217**
Alaska	0	17	0	210	0	0	0
Hawaii	171	55	0	0	88	0	217
U.S. Total	**7**	**26**	**36**	**2**	**6**	**0**	**30**

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, July 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**	**2**	**0**	**29**	**12**
Connecticut	0	0	0	0	0	0	0	35
Maine	0	0	0	0	2	0	29	12
Massachusetts	0	0	0	0	359	0	0	56
New Hampshire	0	0	0	0	0	0	0	137
Middle Atlantic	**0**	**0**	**0**	**59**	**10**	**0**	**0**	**9**
New Jersey	0	0	0	141	141	0	0	35
New York	0	0	0	0	6	0	0	14
Pennsylvania	0	0	0	65	12	0	0	12
East North Central	**0**	**0**	**0**	**175**	**8**	**0**	**7**	**7**
Illinois	0	0	0	0	0	0	21	11
Indiana	0	0	0	0	58	0	0	10
Michigan	0	0	0	0	14	0	0	24
Ohio	0	0	0	175	13	0	0	23
Wisconsin	0	0	0	0	12	0	38	18
West North Central	**0**	**0**	**0**	**0**	**11**	**0**	**42**	**10**
Iowa	0	0	0	0	44	0	0	13
Kansas	0	0	0	0	748	0	142	56
Minnesota	0	0	0	0	9	0	43	17
Missouri	0	0	0	0	237	0	0	105
Nebraska	0	0	0	0	0	0	0	36
North Dakota	0	0	0	0	391	0	0	88
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**4**	**3**
Delaware	0	0	0	0	114	0	0	1
Florida	0	0	0	0	8	0	4	7
Georgia	0	0	0	0	4	0	0	5
Maryland	0	0	0	0	0	0	0	19
North Carolina	0	0	0	0	9	0	0	15
South Carolina	0	0	0	0	1	0	0	4
Virginia	0	0	0	0	5	0	0	10
West Virginia	0	0	0	0	0	0	0	6
East South Central	**0**	**0**	**0**	**0**	**4**	**0**	**29**	**4**
Alabama	0	0	0	0	7	0	0	8
Kentucky	0	0	0	0	0	0	0	20
Mississippi	0	0	0	0	4	0	211	8
Tennessee	0	0	0	0	12	0	0	5
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	7	0	9	2
Oklahoma	0	0	0	0	28	0	65	33
Texas	0	0	0	0	12	0	9	2
Mountain	**0**	**0**	**0**	**152**	**12**	**0**	**10**	**9**
Colorado	0	0	0	0	219	0	54	66
Idaho	0	0	0	0	8	0	0	22
Montana	0	0	0	0	122	0	0	126
Nevada	0	0	0	152	152	0	0	26
New Mexico	0	0	0	0	0	0	0	91
Utah	0	0	0	0	0	0	0	5
Wyoming	0	0	0	0	0	0	0	30
Pacific Contiguous	**0**	**0**	**0**	**94**	**8**	**0**	**10**	**3**
California	0	0	0	94	19	0	10	3
Oregon	0	0	0	0	18	0	0	23
Washington	0	0	0	0	8	0	0	8
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**46**	**0**	**0**	**43**
Alaska	0	0	0	0	186	0	0	122
Hawaii	0	0	0	0	47	0	0	43
U.S. Total	**0**	**0**	**0**	**50**	**2**	**0**	**4**	**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 July 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**69**	**312**	**0**	**20**	**0**	**0**	**64**
Connecticut	0	1,121	0	35	0	0	0
Maine	0	300	0	24	0	0	64
Massachusetts	139	884	0	60	0	0	613
New Hampshire	0	439	0	137	0	0	0
Middle Atlantic	**14**	**58**	**71**	**17**	**21**	**0**	**242**
New Jersey	0	1,587	195	38	83	0	0
New York	0	39	0	29	0	0	242
Pennsylvania	30	139	74	21	16	0	0
East North Central	**8**	**53**	**77**	**22**	**16**	**0**	**116**
Illinois	8	2,738	0	35	62	0	0
Indiana	174	11	0	25	14	0	0
Michigan	81	450	80	54	0	0	296
Ohio	36	428	731	73	60	0	0
Wisconsin	17	207	0	94	0	0	126
West North Central	**10**	**203**	**121**	**51**	**187**	**0**	**221**
Iowa	10	427	121	138	0	0	0
Kansas	0	0	0	57	0	0	0
Minnesota	27	209	0	112	0	0	221
Missouri	118	0	0	344	0	0	0
Nebraska	37	0	0	172	0	0	0
North Dakota	78	730	0	325	187	0	0
South Atlantic	**25**	**75**	**0**	**7**	**0**	**0**	**23**
Delaware	0	0	0	0	0	0	0
Florida	84	147	0	17	0	0	0
Georgia	49	142	0	18	0	0	463
Maryland	0	118	0	56	0	0	0
North Carolina	83	148	0	51	0	0	902
South Carolina	46	0	0	74	0	0	0
Virginia	46	309	0	22	0	0	489
West Virginia	0	0	0	0	0	0	15
East South Central	**16**	**155**	**0**	**12**	**78**	**0**	**0**
Alabama	103	160	0	17	113	0	0
Kentucky	0	0	0	48	0	0	0
Mississippi	0	0	0	37	0	0	0
Tennessee	0	502	0	8	0	0	0
West South Central	**55**	**471**	**59**	**2**	**5**	**0**	**0**
Arkansas	0	0	0	36	0	0	0
Louisiana	0	0	72	2	6	0	0
Oklahoma	60	2,682	0	74	0	0	0
Texas	0	539	60	2	9	0	0
Mountain	**9**	**113**	**0**	**20**	**50**	**0**	**0**
Colorado	375	734	0	91	0	0	0
Idaho	86	0	0	55	0	0	0
Montana	261	0	0	0	0	0	0
Nevada	0	0	0	27	0	0	0
New Mexico	0	338	0	91	0	0	0
Utah	0	1,030	0	17	0	0	0
Wyoming	35	104	0	58	50	0	0
Pacific Contiguous	**0**	**5**	**0**	**3**	**7**	**0**	**0**
California	0	3	0	3	7	0	0
Oregon	0	0	0	56	0	0	0
Washington	0	91	0	0	0	0	0
Pacific Noncontiguous	**171**	**44**	**0**	**210**	**88**	**0**	**217**
Alaska	0	17	0	210	0	0	0
Hawaii	171	55	0	0	88	0	217
U.S. Total	**7**	**26**	**36**	**2**	**6**	**0**	**30**

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 July 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**	**2**	**0**	**29**	**12**
Connecticut	0	0	0	0	0	0	0	35
Maine	0	0	0	0	2	0	29	12
Massachusetts	0	0	0	0	359	0	0	56
New Hampshire	0	0	0	0	0	0	0	137
Middle Atlantic	**0**	**0**	**0**	**59**	**10**	**0**	**0**	**9**
New Jersey	0	0	0	141	141	0	0	35
New York	0	0	0	0	6	0	0	14
Pennsylvania	0	0	0	65	12	0	0	12
East North Central	**0**	**0**	**0**	**175**	**8**	**0**	**7**	**7**
Illinois	0	0	0	0	0	0	21	11
Indiana	0	0	0	0	58	0	0	10
Michigan	0	0	0	0	14	0	0	24
Ohio	0	0	0	175	13	0	0	23
Wisconsin	0	0	0	0	12	0	38	18
West North Central	**0**	**0**	**0**	**0**	**11**	**0**	**42**	**10**
Iowa	0	0	0	0	44	0	0	13
Kansas	0	0	0	0	748	0	142	56
Minnesota	0	0	0	0	9	0	43	17
Missouri	0	0	0	0	237	0	0	105
Nebraska	0	0	0	0	0	0	0	36
North Dakota	0	0	0	0	391	0	0	88
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**4**	**3**
Delaware	0	0	0	0	114	0	0	1
Florida	0	0	0	0	8	0	4	7
Georgia	0	0	0	0	4	0	0	5
Maryland	0	0	0	0	0	0	0	19
North Carolina	0	0	0	0	9	0	0	15
South Carolina	0	0	0	0	1	0	0	4
Virginia	0	0	0	0	5	0	0	10
West Virginia	0	0	0	0	0	0	0	6
East South Central	**0**	**0**	**0**	**0**	**4**	**0**	**29**	**4**
Alabama	0	0	0	0	7	0	0	8
Kentucky	0	0	0	0	0	0	0	20
Mississippi	0	0	0	0	4	0	211	8
Tennessee	0	0	0	0	12	0	0	5
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	7	0	9	2
Oklahoma	0	0	0	0	28	0	65	33
Texas	0	0	0	0	12	0	9	2
Mountain	**0**	**0**	**0**	**152**	**12**	**0**	**10**	**9**
Colorado	0	0	0	0	219	0	54	66
Idaho	0	0	0	0	8	0	0	22
Montana	0	0	0	0	122	0	0	126
Nevada	0	0	0	152	152	0	0	26
New Mexico	0	0	0	0	0	0	0	91
Utah	0	0	0	0	0	0	0	5
Wyoming	0	0	0	0	0	0	0	30
Pacific Contiguous	**0**	**0**	**0**	**94**	**8**	**0**	**10**	**3**
California	0	0	0	94	19	0	10	3
Oregon	0	0	0	0	18	0	0	23
Washington	0	0	0	0	8	0	0	8
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**46**	**0**	**0**	**43**
Alaska	0	0	0	0	186	0	0	122
Hawaii	0	0	0	0	47	0	0	43
U.S. Total	**0**	**0**	**0**	**50**	**2**	**0**	**4**	**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, July 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**1**	**1**	**4**	**0**	**1**
Connecticut	1	1	5	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	8	0	1
New Hampshire	1	1	5	0	1
Rhode Island	0	0	0	0	0
Vermont	4	3	8	0	3
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	3	0	0
New York	0	0	3	0	0
Pennsylvania	0	0	1	0	0
East North Central	**1**	**1**	**1**	**0**	**0**
Illinois	1	1	1	0	1
Indiana	1	2	2	0	1
Michigan	1	2	3	0	1
Ohio	1	1	2	0	1
Wisconsin	2	3	5	0	2
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	3	7	5	0	3
Kansas	2	1	5	0	1
Minnesota	3	4	6	0	2
Missouri	1	1	7	0	1
Nebraska	3	7	7	0	3
North Dakota	4	5	9	0	4
South Dakota	5	10	11	0	5
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	2	2	8	0	2
District of Columbia	0	0	0	0	0
Florida	1	0	4	0	0
Georgia	1	1	3	0	1
Maryland	1	0	4	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	2	2	4	0	2
Mississippi	2	1	4	0	1
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**	**2**	**0**	**1**
Arizona	1	2	3	0	1
Colorado	2	5	6	0	2
Idaho	2	5	2	0	2
Montana	5	8	8	0	4
Nevada	1	3	1	0	1
New Mexico	3	7	8	0	4
Utah	2	5	2	0	2
Wyoming	5	8	4	0	3
Pacific Contiguous	**1**	**1**	**2**	**0**	**1**
California	1	1	2	0	1
Oregon	3	5	8	0	3
Washington	2	4	6	0	3
Pacific Noncontiguous	**2**	**5**	**4**	**0**	**2**
Alaska	6	11	14	0	6
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**3**	**0**	**1**
Connecticut	0	1	4	0	1
Maine	1	8	3	0	3
Massachusetts	0	1	6	0	1
New Hampshire	0	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	1	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	0	3	3	0	1
West North Central	**0**	**1**	**2**	**0**	**1**
Iowa	1	5	3	0	2
Kansas	1	1	4	0	1
Minnesota	1	3	4	0	2
Missouri	1	1	5	0	1
Nebraska	1	5	5	0	2
North Dakota	1	3	6	0	3
South Dakota	1	7	7	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	1	7	0	1
District of Columbia	0	0	0	0	0
Florida	0	0	3	0	0
Georgia	1	1	2	0	1
Maryland	0	0	3	0	0
North Carolina	0	0	2	0	0
South Carolina	1	1	2	0	1
Virginia	0	0	2	0	0
West Virginia	0	0	0	0	0
East South Central	**0**	**1**	**1**	**0**	**0**
Alabama	1	1	1	0	1
Kentucky	1	1	3	0	1
Mississippi	1	1	3	0	1
Tennessee	0	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	**7**	**4**	**2**	**0**	**3**
Alaska	17	8	9	0	7
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**0**	**0**

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

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**1**	**0**
Connecticut	0	1	4	4	0
Maine	1	2	2	0	1
Massachusetts	1	1	3	0	1
New Hampshire	0	1	3	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	1	1	0	1
Michigan	0	1	2	0	1
Ohio	1	1	2	0	0
Wisconsin	1	2	4	0	1
West North Central	**0**	**1**	**2**	**0**	**1**
Iowa	1	4	5	0	2
Kansas	1	1	3	0	1
Minnesota	1	3	5	0	2
Missouri	1	1	4	0	1
Nebraska	1	5	6	0	2
North Dakota	1	3	6	0	2
South Dakota	1	5	8	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**	**0**
Alabama	1	1	2	0	1
Kentucky	1	2	3	0	1
Mississippi	1	2	3	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	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	2	0	1
Montana	1	4	9	0	2
Nevada	0	3	1	0	1
New Mexico	1	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	1	0	0
Oregon	1	2	7	0	1
Washington	1	2	6	0	1
Pacific Noncontiguous	**8**	**3**	**2**	**0**	**3**
Alaska	22	6	8	0	9
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, July 2016

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

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

by End-Use Sector, Census Division, and State, Year-to-Date through July 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	7	3	0	3
Massachusetts	0	1	6	0	1
New Hampshire	0	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	1	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	0	1	2	0	1
Indiana	1	2	2	0	1
Michigan	0	2	3	0	1
Ohio	0	1	2	0	1
Wisconsin	0	3	4	0	2
West North Central	**0**	**2**	**3**	**0**	**1**
Iowa	0	6	5	0	2
Kansas	1	1	4	0	1
Minnesota	0	4	6	0	2
Missouri	1	1	5	0	1
Nebraska	0	6	7	0	3
North Dakota	0	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	4	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	**0**	**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	0	5	6	0	2
Idaho	0	4	3	0	1
Montana	1	6	10	0	3
Nevada	0	3	1	0	1
New Mexico	0	8	9	0	4
Utah	0	5	3	0	2
Wyoming	1	6	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	0	4	8	0	2
Washington	0	3	6	0	2
Pacific Noncontiguous	**2**	**4**	**3**	**0**	**2**
Alaska	6	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
2016	7	07/05/2016 2:45 AM	07/06/2016 3:00 AM	24 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County, Tarrant County	Loss of Electric Service-Severe Weather	Unknown	52000
2016	7	07/05/2016 5:30 PM	07/06/2016 4:00 PM	22 Hours, 30 Minutes	Northern States Power Co	MRO	Minnesota, Wisconsin	Loss of Electric Service-Severe Weather	Unknown	250000
2016	7	07/07/2016 4:20 AM	07/07/2016 8:00 AM	3 Hours, 40 Minutes	Kansas City Power & Light Co	SERC	Kansas: Johnson County; Missouri: Jackson County, Platte County, Cass County, Buchanan County, Atchison County, Andrew County, Clay County, Nodaway County	Loss of Electric Service-Severe Weather	Unknown	58500
2016	7	07/08/2016 6:00 PM	ongoing	ongoing	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RFC	West Virginia: Virginia	Loss of Electric Service-Severe Weather	Unknown	62961
2016	7	07/08/2016 7:00 PM	07/09/2016 12:00 AM	5 Hours, 0 Minutes	Detroit Edison Co	RFC	Michigan: Wayne County, Oakland County, Macomb County, St. Clair County, Lapeer County, Tuscola County, Sanilac County, Huron County	Loss of Electric Service-Severe Weather	Unknown	160895
2016	7	07/08/2016 8:50 PM	07/09/2016 7:25 PM	22 Hours, 35 Minutes	Duke Energy Carolinas	SERC	North Carolina	Loss of Electric Service-Severe Weather	600	203345
2016	7	07/09/2016 5:45 PM	07/11/2016 2:00 PM	44 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County	Loss of Electric Service-Severe Weather	Unknown	62000
2016	7	07/12/2016 2:10 PM	07/12/2016 8:33 PM	6 Hours, 23 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	450	218000
2016	7	07/13/2016 3:00 PM	ongoing	ongoing	Memphis Light Gas and Water Division	SERC	Tennessee: Shelby County	Public Appeal-System Operations	Unknown	Unknown
2016	7	07/14/2016 2:44 PM	07/15/2016 4:00 AM	13 Hours, 16 Minutes	American Electric Power - (SPP Reliability Region)	SPP	Oklahoma	Loss of Electric Service-Severe Weather	Unknown	96966
2016	7	07/14/2016 4:30 PM	07/16/2016 12:00 AM	31 Hours, 30 Minutes	Entergy Services, Inc.	SPP, SERC,	Arkansas: Louisiana: Mississippi: Texas	Loss of Electric Service-Severe Weather	Unknown	170244
2016	7	07/14/2016 5:30 PM	07/16/2016 8:00 PM	50 Hours, 30 Minutes	Oklahoma Gas & Electric Co	SPP	Oklahoma: Arkansas	Loss of Electric Service-Severe Weather	Unknown	7300
2016	7	07/19/2016 3:45 PM	07/19/2016 7:25 PM	3 Hours, 40 Minutes	Pacificorp	WECC	Idaho	Islanding, Uncontrolled Loss 300+ MW-System Operations	485	Unknown
2016	7	07/19/2016 3:45 PM	07/19/2016 7:29 PM	3 Hours, 44 Minutes	Bonneville Power Administration	WECC	Idaho	Islanding, Uncontrolled Loss 300+ MW-System Operations	290	Unknown
2016	7	07/21/2016 7:21 PM	07/22/2016 12:09 AM	4 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Load Shed 100+ MW, Voltage Reduction-System Operations	200	266000
2016	7	07/22/2016 11:50 PM	07/23/2016 9:10 AM	9 Hours, 20 Minutes	ISO New England	NPCC	Massachusetts: Connecticut: Rhode Island: New Hampshire: Vermont: Maine	Loss of Electric Service-Severe Weather	Unknown	57058
2016	7	07/23/2016 3:15 PM	07/23/2016 7:53 PM	4 Hours, 38 Minutes	CAmbria Cogen Company	RFC	Pennsylvania: Cambria County	Voltage Reduction-System Operations	87	Unknown

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	7	07/23/2016 7:30 PM	07/24/2016 7:30 AM	12 Hours, 0 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Vermont: Rhode Island	Loss of Electric Service-Severe Weather	Unknown	101073
2016	7	07/25/2016 6:51 PM	07/26/2016 2:19 AM	7 Hours, 28 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	0	0
2016	7	07/26/2016 6:51 PM	07/27/2016 1:45 AM	6 Hours, 54 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	25	37100
2016	7	07/27/2016 6:50 PM	07/28/2016 1:38 AM	6 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	80	106300
2016	7	07/28/2016 6:51 PM	07/29/2016 2:02 AM	7 Hours, 11 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	22	21600
2016	7	07/29/2016 7:09 PM	07/29/2016 7:57 PM	0 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	0	0

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

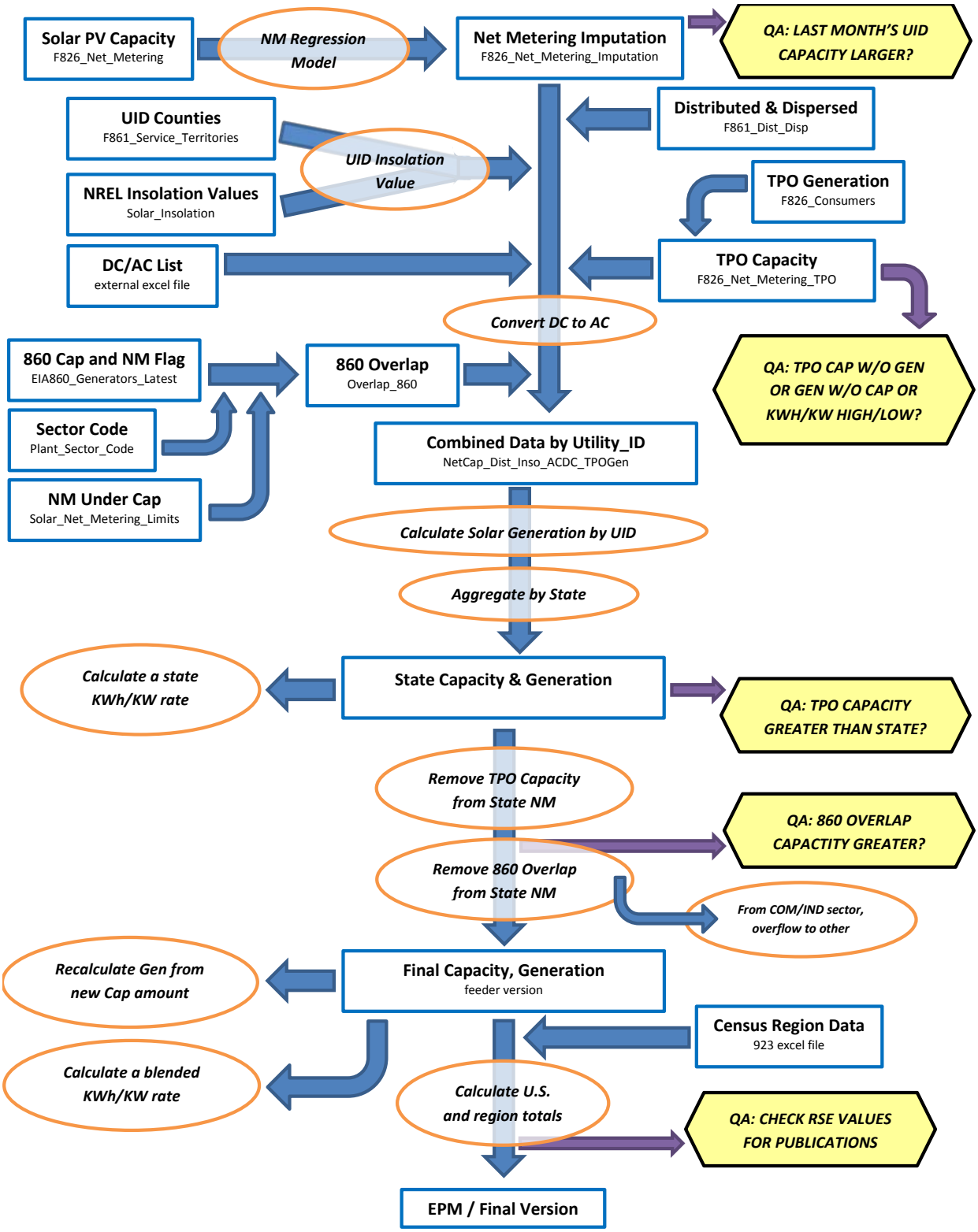
TMY3 (1991-2005) Weather Stations by MSA

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, July 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	22.00	6.09	--	1.03
Connecticut	--	5.80	--	1.02
Maine	25.21	6.26	--	1.02
Massachusetts	21.24	--	--	1.03
New Hampshire	25.95	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	23.35	6.10	--	1.03
New Jersey	25.53	5.76	--	1.04
New York	26.14	6.18	--	1.03
Pennsylvania	23.18	5.79	--	1.04
East North Central	20.12	5.79	27.27	1.04
Illinois	17.65	5.80	--	1.03
Indiana	22.27	5.77	--	1.04
Michigan	18.91	5.81	26.90	1.03
Ohio	24.47	5.79	28.43	1.06
Wisconsin	17.97	5.86	27.89	1.02
West North Central	16.67	5.78	--	1.04
Iowa	17.77	5.71	--	1.05
Kansas	17.26	5.78	--	1.03
Minnesota	17.77	5.80	--	1.04
Missouri	17.63	5.80	--	1.02
Nebraska	16.95	--	--	1.07
North Dakota	13.23	5.78	--	1.00
South Dakota	16.70	--	--	1.06
South Atlantic	23.52	6.25	28.34	1.03
Delaware	25.97	5.67	--	1.04
District of Columbia	--	--	--	--
Florida	23.35	6.36	28.34	1.02
Georgia	20.51	5.84	28.36	1.03
Maryland	25.41	5.81	--	1.04
North Carolina	24.81	5.80	--	1.03
South Carolina	24.86	5.84	--	1.03
Virginia	22.53	6.25	--	1.06
West Virginia	24.59	5.75	--	1.08
East South Central	20.92	5.78	--	1.03
Alabama	20.04	5.50	--	1.03
Kentucky	22.48	5.84	--	1.04
Mississippi	12.34	5.81	--	1.03
Tennessee	21.63	5.76	--	1.01
West South Central	15.83	5.84	28.50	1.03
Arkansas	17.51	5.80	--	1.03
Louisiana	15.83	5.90	28.50	1.03
Oklahoma	17.33	5.80	--	1.05
Texas	15.42	5.82	--	1.03
Mountain	18.80	5.76	--	1.04
Arizona	19.66	5.68	--	1.03
Colorado	18.78	5.67	--	1.08
Idaho	--	--	--	1.01
Montana	17.13	5.92	--	--
Nevada	17.62	5.80	--	1.04
New Mexico	18.24	5.66	--	1.05
Utah	21.67	5.88	--	1.04
Wyoming	17.59	5.81	--	--
Pacific Contiguous	18.01	6.00	--	1.04
California	22.84	--	--	1.04
Oregon	17.39	--	--	1.05
Washington	17.20	6.00	--	1.09
Pacific Noncontiguous	18.72	6.20	--	1.01
Alaska	15.00	--	--	1.01
Hawaii	19.20	6.20	--	--
U.S. Total	19.17	6.16	28.24	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.