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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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Fuel	Facility Type	Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
		August 2016	August 2015	Percentage Change	Electric Utilities		Independent Power Producers		August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
					August 2016	August 2015	August 2016	August 2015						
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	135,976	135,285	0.5%	100,386	101,770	34,661	32,373	33	35	896	1,108	0	0
Petroleum Liquids	Utility Scale Facilities	1,271	1,109	14.6%	897	817	316	243	NM	12	NM	37	0	0
Petroleum Coke	Utility Scale Facilities	1,091	1,071	1.8%	856	827	140	143	0	1	94	100	0	0
Natural Gas	Utility Scale Facilities	155,866	139,493	11.7%	73,426	63,431	73,538	67,602	791	732	8,111	7,727	0	0
Other Gas	Utility Scale Facilities	1,096	1,216	-9.9%	18	21	321	327	0	0	757	867	0	0
Nuclear	Utility Scale Facilities	71,526	72,415	-1.2%	37,927	38,482	33,599	33,933	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	19,417	19,434	-0.1%	18,003	17,924	1,328	1,426	NM	NM	81	81	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	24,367	23,071	5.6%	2,660	2,733	19,062	17,583	280	291	2,365	2,464	0	0
... Wind	Utility Scale Facilities	13,565	13,073	3.8%	1,901	1,981	11,651	11,079	NM	NM	NM	NM	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	3,936	2,834	38.8%	231	175	3,640	2,596	61	60	3	3	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,587	3,834	-6.5%	310	325	1,005	1,153	12	NM	2,259	2,354	0	0
... Other Biomass	Utility Scale Facilities	1,853	1,902	-2.6%	125	158	1,432	1,421	198	220	99	103	0	0
... Geothermal	Utility Scale Facilities	1,427	1,427	0.0%	94	93	1,334	1,334	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-902	-626	44.1%	-787	-513	-115	-113	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,177	1,234	-4.6%	22	56	619	610	94	110	442	458	0	0
All Energy Sources	Utility Scale Facilities	410,885	393,704	4.4%	233,408	225,550	163,468	154,128	1,217	1,184	12,792	12,842	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	2,004	1,468	36.5%	0	0	0	0	716	575	187	147	1,101	746
Estimated Total Solar Photovoltaic	All Facilities	5,572	3,907	42.6%	224	160	3,279	2,216	778	635	190	150	1,101	746
Estimated Total Solar	All Facilities	5,940	4,302	38.1%	231	175	3,640	2,596	778	635	190	150	1,101	746
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	73,951	74,067	-0.2%	53,935	54,796	19,669	18,852	11	12	336	406	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,194	1,861	17.9%	1,650	1,453	481	337	NM	22	50	49	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	428	397	7.7%	337	311	62	59	0	0	29	27	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,197,948	1,069,342	12.0%	577,627	498,759	556,314	508,301	6,776	6,936	57,231	55,346	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,178	1,448	-18.6%	90	72	149	171	41	51	898	1,154	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	246	201	22.0%	1	1	96	92	NM	10	137	98	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	76	104	-26.7%	0	0	9	9	0	2	67	94	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	82,837	79,498	4.2%	912	851	26,870	26,684	5,282	4,459	49,773	47,504	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	75,129	75,514	-0.5%	54,024	54,868	19,818	19,023	52	63	1,234	1,560	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,440	2,062	18.3%	1,650	1,454	577	429	NM	32	187	147	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	504	501	0.6%	337	311	71	68	0	2	96	121	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	1,280,785	1,148,840	11.5%	578,539	499,610	583,184	534,984	12,058	11,395	107,003	102,850	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	164,459	158,223	3.9%	130,766	124,825	31,797	31,719	123	172	1,773	1,507	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	36,213	30,673	18.1%	20,427	20,162	14,245	8,831	239	259	1,302	1,421	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	879	1,181	-25.6%	W	891	W	138	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for August									
Sector	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)		
	August 2016	August 2015	Percentage Change	August 2016	August 2015	Percentage Change	August 2016	August 2015	Percentage Change
Residential	155,863	144,091	8.2%	20,104	18,637	7.9%	12.90	12.93	-0.2%
Commercial	134,232	128,387	4.6%	14,365	13,993	2.7%	10.70	10.90	-1.8%
Industrial	85,121	85,891	-0.9%	6,158	6,294	-2.2%	7.23	7.33	-1.4%
Transportation	633	627	0.9%	63	64	-1.5%	9.94	10.18	-2.4%
All Sectors	375,848	358,996	4.7%	40,690	38,988	4.4%	10.83	10.86	-0.3%

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 upon customer class and consumption occurring during and outside the calendar month.

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

Net Generation and Consumption of Fuels for January through August														
Fuel	Facility Type	Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
		August 2016 YTD	August 2015 YTD	Percentage Change	Electric Utilities		Independent Power Producers		August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
					August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD						
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	822,277	962,640	-14.6%	619,587	721,116	195,608	233,300	282	351	6,800	7,873	0	0
Petroleum Liquids	Utility Scale Facilities	8,667	13,511	-35.8%	6,092	7,793	2,194	5,150	73	172	309	395	0	0
Petroleum Coke	Utility Scale Facilities	8,037	7,642	5.2%	6,393	5,778	906	1,110	4	5	734	749	0	0
Natural Gas	Utility Scale Facilities	963,815	889,601	8.3%	459,708	409,343	438,098	418,381	5,397	5,066	60,612	56,811	0	0
Other Gas	Utility Scale Facilities	8,964	8,975	-0.1%	98	169	2,640	2,434	0	0	6,226	6,372	0	0
Nuclear	Utility Scale Facilities	542,300	540,243	0.4%	290,110	283,012	252,190	257,230	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	191,845	175,690	9.2%	176,640	160,959	14,256	13,775	NM	NM	905	928	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	224,796	193,767	16.0%	27,301	23,893	176,764	148,446	2,173	2,262	18,558	19,165	0	0
... Wind	Utility Scale Facilities	147,374	120,892	21.9%	21,884	18,925	125,348	101,851	91	80	52	36	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	24,906	18,566	34.1%	1,556	1,173	22,896	16,985	432	387	22	21	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	26,882	28,557	-5.9%	2,066	2,061	7,153	8,219	52	39	17,610	18,237	0	0
... Other Biomass	Utility Scale Facilities	14,453	14,428	0.2%	1,080	1,018	10,902	10,782	1,598	1,756	874	871	0	0
... Geothermal	Utility Scale Facilities	11,180	11,324	-1.3%	715	716	10,465	10,608	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-4,045	-3,540	14.3%	-3,353	-2,835	-693	-705	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	8,883	8,750	1.5%	321	298	4,610	4,502	729	801	3,223	3,149	0	0
All Energy Sources	Utility Scale Facilities	2,775,540	2,797,277	-0.8%	1,582,897	1,609,526	1,086,574	1,083,623	8,702	8,685	97,367	95,444	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	13,553	9,716	39.5%	0	0	0	0	5,080	4,003	1,251	998	7,221	4,715
Estimated Total Solar Photovoltaic	All Facilities	35,961	25,886	38.9%	1,495	1,086	20,458	14,676	5,513	4,390	1,274	1,019	7,221	4,715
Estimated Total Solar	All Facilities	38,459	28,282	36.0%	1,556	1,173	22,896	16,985	5,513	4,390	1,274	1,019	7,221	4,715
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	448,716	522,498	-14.1%	333,814	386,670	112,378	132,877	92	117	2,432	2,834	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	14,865	22,874	-35.0%	11,095	13,949	3,292	8,015	86	347	392	563	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	3,042	2,863	6.2%	2,447	2,189	386	464	1	1	207	208	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	7,292,480	6,709,252	8.7%	3,556,541	3,159,164	3,261,801	3,094,010	48,142	48,729	425,996	407,349	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	10,098	11,775	-14.2%	658	649	1,165	1,331	387	477	7,887	9,318	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,766	2,179	-18.9%	15	59	687	845	103	149	961	1,126	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	664	968	-31.4%	2	5	67	73	7	9	589	880	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	631,315	611,307	3.3%	6,856	5,475	202,492	204,311	39,152	35,293	382,815	366,228	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	458,813	534,273	-14.1%	334,472	387,318	113,543	134,208	480	595	10,319	12,153	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	16,631	25,053	-33.6%	11,110	14,008	3,980	8,860	189	496	1,353	1,689	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	3,706	3,831	-3.3%	2,449	2,195	453	538	8	11	796	1,088	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	7,923,795	7,320,559	8.2%	3,563,397	3,164,639	3,464,293	3,298,322	87,293	84,022	808,812	773,577	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through August									
Sector	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)		
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	Percentage Change
Residential	963,035	972,398	-1.0%	120,782	122,960	-1.8%	12.54	12.65	-0.9%
Commercial	912,498	913,288	-0.1%	94,323	97,054	-2.8%	10.34	10.63	-2.7%
Industrial	629,434	643,005	-2.1%	42,340	44,712	-5.3%	6.73	6.95	-3.2%
Transportation	5,021	5,176	-3.0%	478	532	-10.1%	9.52	10.28	-7.4%
All Sectors	2,509,987	2,533,868	-0.9%	257,924	265,259	-2.8%	10.28	10.47	-1.8%

NM = Not meaningful due to large relative standard error.

W = Withheld to avoid disclosure of individual company data.

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

Coal generation and consumption includes anthracite, bituminous, subbituminous, lignite, waste coal, 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 upon customer class and consumption occurring during and outside the calendar month.

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)										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date			
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
Coal (1000 tons)	63,913	71,012	40.86	43.22	287	308	407,874	516,154	41.28	43.59
Petroleum Liquids (1000 barrels)	1,475	1,542	57.62	72.84	165	170	11,043	16,045	54.69	77.02
Petroleum Coke (1000 tons)	398	396	48.48	52.86	8	11	2,781	3,147	40.06	55.31
Natural Gas (1000 Mcf)	1,162,659	1,038,238	3.06	3.21	787	777	7,128,969	6,586,602	2.79	3.54

Electric Utilities										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date			
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
Coal (1000 tons)	47,335	53,072	42.28	44.06	201	219	307,107	387,665	42.38	44.15
Petroleum Liquids (1000 barrels)	1,086	946	56.53	71.15	104	108	8,248	9,998	54.17	75.29
Petroleum Coke (1000 tons)	335	342	45.01	50.54	6	9	2,403	2,655	36.13	53.13
Natural Gas (1000 Mcf)	549,200	471,677	3.34	3.57	421	408	3,405,463	3,018,718	3.07	3.83

Independent Power Producers										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date			
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
Coal (1000 tons)	15,952	17,230	35.92	39.81	68	67	95,917	122,792	36.73	40.88
Petroleum Liquids (1000 barrels)	380	575	60.55	75.45	51	52	2,605	5,531	56.17	79.87
Petroleum Coke (1000 tons)	55	45	W	W	1	1	281	336	68.85	68.22
Natural Gas (1000 Mcf)	549,400	502,592	2.72	2.81	319	322	3,241,530	3,092,378	2.48	3.28

Commercial Sector										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date			
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
Coal (1000 tons)	4	8	W	W	1	2	23	84	W	65.03
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	765	680	W	W	3	2	5,461	3,972	W	W

Industrial Sector										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date			
	(Physical Units)		(Dollars / Physical Unit)				(Physical Units)		(Dollars / Physical Unit)	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
Coal (1000 tons)	622	703	W	W	17	20	4,827	5,612	W	64.42
Petroleum Liquids (1000 barrels)	10	21	65.04	79.74	10	10	189	516	57.37	82.66
Petroleum Coke (1000 tons)	8	9	W	W	1	1	96	156	W	W
Natural Gas (1000 Mcf)	63,294	63,289	W	W	44	45	476,515	471,534	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)										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
Coal	1,236,545	1,375,298	2.11	2.23	287	308	7,907,487	9,996,297	2.13	2.25
Petroleum Liquids	9,012	9,220	9.43	12.06	165	170	66,890	97,084	9.02	12.70
Petroleum Coke	11,032	11,327	1.75	1.85	8	11	78,043	89,337	1.43	1.95
Natural Gas	1,204,561	1,073,235	2.96	3.11	787	777	7,369,046	6,809,384	2.70	3.43
Fossil Fuels	2,461,150	2,469,079	2.53	2.62	967	971	15,421,465	16,992,102	2.41	2.75

Electric Utilities										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
Coal	920,974	1,035,462	2.17	2.26	201	219	5,992,452	7,548,694	2.17	2.27
Petroleum Liquids	6,713	5,726	9.14	11.75	104	108	50,463	60,918	8.85	12.35
Petroleum Coke	9,306	9,787	1.62	1.76	6	9	67,671	75,573	1.28	1.87
Natural Gas	569,260	487,563	3.23	3.46	421	408	3,521,131	3,118,782	2.97	3.71
Fossil Fuels	1,506,254	1,538,537	2.60	2.67	543	544	9,631,717	10,803,967	2.49	2.73

Independent Power Producers										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
Coal	301,966	323,784	1.90	2.12	68	67	1,807,445	2,318,355	1.95	2.17
Petroleum Liquids	2,242	3,367	10.26	12.56	51	52	15,270	33,019	9.57	13.31
Petroleum Coke	1,509	1,289	W	W	1	1	7,741	9,440	2.50	2.43
Natural Gas	568,935	519,586	2.62	2.72	319	322	3,350,682	3,198,811	2.40	3.17
Fossil Fuels	874,651	848,026	W	W	373	375	5,181,139	5,559,624	W	W

Commercial Sector										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
Coal	92	187	W	W	1	2	526	1,890	W	2.90
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	802	694	W	W	3	2	5,617	4,038	W	W
Fossil Fuels	893	881	W	W	3	3	6,142	5,928	W	W

Industrial Sector										
Fuel	Receipts		Cost		Number of Plants		Year-to-Date Receipts		Year-to-Date Cost	
	(Billion Btu)		(Dollars / Million Btu)				(Billion Btu)		(Dollars / Million Btu)	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
Coal	13,513	15,865	W	W	17	20	107,064	127,358	W	2.84
Petroleum Liquids	58	127	10.89	13.09	10	10	1,156	3,147	9.40	13.55
Petroleum Coke	217	251	W	W	1	1	2,630	4,324	W	W
Natural Gas	65,565	65,392	W	W	44	45	491,617	487,753	W	W
Fossil Fuels	79,352	81,635	W	W	48	49	602,467	622,582	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.A. Net Generation from Renewable Sources: Total (All Sectors), 2006-August 2016
(Thousand Megawatthours)**

Period	Generation at Utility Scale Facilities										Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
	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	11,233	26,482	28,924
2015	190,927	23,232	3,241	42,358	11,233	7,415	3,184	16,767	251,168	549,527	14,139	37,371	40,612
Year 2014													
January	17,911	697	54	3,626	967	584	299	1,355	21,634	47,127	624	1,321	1,375
February	14,009	752	83	3,265	930	490	267	1,206	17,396	38,397	664	1,416	1,499
March	17,736	1,135	182	3,609	961	599	291	1,338	24,257	50,108	907	2,042	2,224
April	18,636	1,261	226	3,230	957	586	267	1,314	25,440	51,916	988	2,249	2,476
May	15,601	1,457	292	3,290	944	635	270	1,332	26,544	50,366	1,092	2,549	2,842
June	15,799	1,578	345	3,622	943	613	271	1,293	25,744	50,208	1,101	2,678	3,024
July	12,187	1,525	262	3,807	1,035	646	261	1,320	24,357	45,402	1,149	2,674	2,936
August	10,171	1,618	261	3,761	988	647	245	1,329	19,807	38,828	1,139	2,757	3,019
Sept	11,520	1,574	258	3,462	932	606	234	1,308	16,074	35,968	1,046	2,621	2,879
October	14,508	1,484	233	3,422	854	603	269	1,345	17,159	39,878	965	2,448	2,682
November	18,867	1,232	148	3,508	820	612	258	1,362	18,625	45,432	792	2,024	2,171
December	14,711	936	95	3,737	890	609	268	1,375	22,329	44,950	766	1,703	1,798
Year 2015													
January	15,262	1,154	64	3,794	983	617	299	1,475	24,631	48,280	746	1,900	1,964
February	14,959	1,471	162	3,418	822	519	261	1,346	22,770	45,729	816	2,286	2,449
March	15,331	1,954	287	3,447	895	558	278	1,456	24,884	49,090	1,134	3,087	3,374
April	17,881	2,194	374	3,244	913	593	233	1,338	22,558	49,328	1,264	3,457	3,831
May	17,221	2,255	347	3,366	940	626	249	1,466	20,210	46,680	1,394	3,648	3,996
June	13,477	2,334	383	3,539	940	625	240	1,381	20,089	43,009	1,408	3,742	4,125
July	13,686	2,371	383	3,913	987	679	266	1,436	21,114	44,835	1,487	3,858	4,241
August	13,073	2,439	395	3,834	976	667	260	1,427	19,434	42,505	1,468	3,907	4,302
Sept	13,916	2,049	309	3,469	891	615	240	1,281	16,242	39,012	1,330	3,379	3,688
October	16,390	1,822	208	3,300	933	624	279	1,363	16,702	41,620	1,198	3,019	3,228
November	19,663	1,691	204	3,404	947	631	288	1,380	19,381	47,589	982	2,673	2,878
December	20,067	1,499	124	3,629	1,006	660	290	1,418	23,154	51,849	914	2,413	2,537
Year 2016													
January	18,511	1,460	86	3,573	964	627	293	1,436	25,535	52,485	1,035	2,495	2,581
February	20,214	2,182	241	3,392	858	547	272	1,342	24,257	53,304	1,194	3,377	3,618
March	21,752	2,464	257	3,377	893	587	286	1,429	27,158	58,204	1,595	4,058	4,316
April	20,555	2,708	273	2,898	891	601	277	1,305	25,567	55,075	1,746	4,454	4,727
May	18,824	3,255	389	3,115	953	659	265	1,458	25,396	54,314	1,925	5,180	5,569
June	16,364	3,179	412	3,358	929	617	231	1,359	23,152	49,599	1,990	5,169	5,581
July	17,589	3,593	471	3,583	953	638	259	1,425	21,365	49,876	2,064	5,656	6,128
August	13,565	3,568	368	3,587	957	643	253	1,427	19,417	43,783	2,004	5,572	5,940
Year to Date													
2014	122,049	10,024	1,707	28,211	7,724	4,798	2,172	10,487	185,179	372,351	7,664	17,687	19,394
2015	120,892	16,170	2,396	28,557	7,456	4,885	2,087	11,324	175,690	369,456	9,716	25,886	28,282
2016	147,374	22,408	2,498	26,882	7,398	4,919	2,137	11,180	191,845	416,641	13,553	35,961	38,459
Rolling 12 Months Ending in August													
2015	180,497	21,396	3,130	42,685	10,951	7,315	3,117	16,715	249,877	535,684	13,285	34,681	37,812
2016	217,410	29,470	3,343	40,684	11,175	7,449	3,233	16,623	267,324	596,711	17,976	47,446	50,789

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.

Distributed generation and capacity have been updated and finalized for 2014 and 2015; distributed data for 2016 have also been refreshed.

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-August 2016
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities											Total
	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	
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
August	100,386	897	856	73,426	18	37,927	18,003	231	2,430	-787	22	233,408
Year to Date												
2014	815,250	8,024	6,476	335,203	79	279,579	169,644	805	21,954	-3,482	414	1,633,946
2015	721,116	7,793	5,778	409,343	169	283,012	160,959	1,173	22,720	-2,835	298	1,609,526
2016	619,587	6,092	6,393	459,708	98	290,110	176,640	1,556	25,745	-3,353	321	1,582,897
Rolling 12 Months Ending in August												
2015	1,078,940	10,465	8,449	575,554	201	423,304	229,500	1,586	34,044	-4,496	507	2,358,053
2016	915,460	8,889	8,898	664,839	NM	423,777	245,811	2,041	38,667	-4,622	519	2,304,411

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.

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Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.

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

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

**Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2006-August 2016
(Thousand Megawatthours)**

Period	Generation at Utility Scale Facilities											Total
	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	
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	1,566	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
August	34,661	316	140	73,538	321	33,599	1,328	3,640	15,421	-115	619	163,468
Year to Date												
2014	276,462	5,913	987	349,749	1,982	249,158	14,627	10,662	132,272	-691	4,403	1,045,524
2015	233,300	5,150	1,110	418,381	2,434	257,230	13,775	16,985	131,461	-705	4,502	1,083,623
2016	195,608	2,194	906	438,098	2,640	252,190	14,256	22,896	153,868	-693	4,610	1,086,574
Rolling 12 Months Ending in August												
2015	352,539	6,027	1,533	600,390	3,699	385,367	19,009	22,409	195,912	-1,044	6,788	1,592,629
2016	289,257	3,147	1,404	646,181	3,656	375,458	20,157	30,142	227,185	-976	6,878	1,602,489

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.
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 Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
 Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.C. Net Generation by Energy Source: Commercial Sector, 2006-August 2016
(Thousand Megawatthours)

Period	Generation at Utility Scale Facilities											Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation		
	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	5,146	5,516	5,516
2015	488	202	8	7,690	0	0	NM	554	2,835	0	1,211	13,029	5,689	6,243	6,243
Year 2014															
January	76	102	1	651	0	0	4	16	264	0	104	1,218	300	316	316
February	79	37	1	533	0	0	3	20	216	0	71	961	322	342	342
March	66	30	1	529	0	0	4	29	230	0	84	972	432	461	461
April	47	9	1	509	0	0	4	33	229	0	96	927	467	499	499
May	39	8	0	557	0	0	4	38	238	0	102	986	512	550	550
June	42	8	0	605	0	0	3	39	245	0	99	1,041	510	549	549
July	50	9	0	701	0	0	3	38	263	0	109	1,173	529	567	567
August	42	7	1	722	0	0	3	39	256	0	110	1,181	520	559	559
Sept	36	8	1	657	0	0	3	35	243	0	104	1,086	469	504	504
October	31	9	1	601	0	0	2	36	230	0	97	1,008	419	455	455
November	44	9	1	560	0	0	2	28	218	0	98	960	338	366	366
December	45	10	1	602	0	0	2	20	230	0	97	1,007	329	349	349
Year 2015															
January	53	26	1	619	0	0	NM	23	244	0	92	1,062	327	351	351
February	59	80	1	533	0	0	NM	32	215	0	83	1,005	356	388	388
March	51	12	1	616	0	0	NM	46	243	0	95	1,067	479	525	525
April	33	8	1	539	0	0	NM	54	227	0	102	968	525	578	578
May	35	11	0	655	0	0	NM	55	238	0	105	1,102	574	628	628
June	42	NM	0	652	0	0	NM	60	229	0	103	1,101	571	631	631
July	44	13	0	720	0	0	NM	58	248	0	110	1,196	596	654	654
August	35	12	1	732	0	0	NM	60	231	0	110	1,184	575	635	635
Sept	32	NM	1	674	0	0	NM	50	233	0	111	1,113	515	565	565
October	34	NM	1	638	0	0	NM	42	236	0	95	1,057	455	497	497
November	33	NM	1	650	0	0	NM	41	245	0	100	1,079	367	408	408
December	37	8	1	661	0	0	NM	34	246	0	104	1,095	349	384	384
Year 2016															
January	41	11	1	656	0	0	NM	29	231	0	91	1,065	430	459	459
February	46	13	1	577	0	0	NM	47	203	0	76	968	482	529	529
March	44	NM	1	626	0	0	NM	50	242	0	99	1,073	626	676	676
April	30	NM	0	621	0	0	NM	50	217	0	97	1,028	652	702	702
May	NM	NM	0	651	0	0	NM	60	213	0	96	1,059	711	770	770
June	30	NM	0	705	0	0	NM	63	197	0	81	1,089	722	785	785
July	30	NM	1	770	0	0	NM	71	220	0	96	1,202	742	813	813
August	33	NM	0	791	0	0	NM	61	218	0	94	1,217	716	778	778
Year to Date															
2014	440	210	5	4,807	0	0	29	252	1,941	0	775	8,458	3,591	3,843	3,843
2015	351	172	5	5,066	0	0	NM	387	1,875	0	801	8,685	4,003	4,390	4,390
2016	282	73	4	5,397	0	0	NM	432	1,741	0	729	8,702	5,080	5,513	5,513
Rolling 12 Months Ending in August															
2015	507	NM	9	7,486	0	0	NM	506	2,796	0	1,197	12,746	5,557	6,063	6,063
2016	NM	NM	8	8,021	0	0	NM	599	2,701	0	1,139	13,046	6,767	7,366	7,366

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.

Distributed generation and capacity have been updated and finalized for 2014 and 2015; distributed data for 2016 have also been refreshed.

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

Period	Generation at Utility Scale Facilities											Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation		
	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
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	1,139	1,156	1,156
2015	11,632	560	1,088	86,440	9,308	0	1,323	29	28,631	0	4,762	143,773	1,451	1,481	1,481
Year 2014															
January	1,105	85	100	7,441	667	0	120	1	2,466	0	408	12,391	62	62	62
February	998	61	86	6,680	606	0	104	1	2,212	0	363	11,112	65	66	66
March	1,087	56	103	7,105	651	0	114	1	2,439	0	382	11,937	93	94	94
April	955	32	128	6,690	624	0	127	2	2,319	0	375	11,251	101	103	103
May	1,009	40	126	6,918	662	0	130	2	2,385	0	397	11,667	111	113	113
June	1,065	37	130	6,960	711	0	100	2	2,409	0	400	11,814	113	114	114
July	1,105	37	129	7,685	786	0	89	2	2,549	0	408	12,790	117	119	119
August	1,081	35	134	7,716	820	0	96	2	2,496	0	476	12,856	116	118	118
Sept	1,013	39	123	7,234	828	0	86	2	2,275	0	444	12,044	106	107	107
October	942	39	101	7,028	748	0	93	1	2,303	0	411	11,667	100	102	102
November	966	42	108	7,083	772	0	99	1	2,297	0	429	11,797	81	82	82
December	1,015	42	121	7,670	790	0	125	1	2,510	0	484	12,757	74	75	75
Year 2015															
January	992	59	98	7,685	894	0	130	NM	2,572	0	359	12,791	80	NM	NM
February	955	80	107	6,586	747	0	113	NM	2,260	0	306	11,155	85	NM	NM
March	1,007	59	84	6,666	743	0	142	3	2,335	0	349	11,387	119	122	122
April	798	36	99	6,363	668	0	136	3	2,302	0	389	10,793	129	133	133
May	912	45	86	6,863	701	0	113	NM	2,298	0	421	11,442	144	NM	NM
June	1,018	43	70	7,207	804	0	100	3	2,359	0	420	12,025	144	147	147
July	1,083	36	104	7,716	948	0	113	NM	2,558	0	447	13,008	150	NM	NM
August	1,108	37	100	7,727	867	0	81	3	2,460	0	458	12,842	147	150	150
Sept	1,015	37	99	7,286	870	0	61	3	2,352	0	409	12,130	135	137	137
October	956	34	89	6,956	641	0	97	2	2,338	0	419	11,533	125	127	127
November	893	49	NM	7,402	637	0	109	NM	2,348	0	392	11,904	100	NM	NM
December	895	45	81	7,984	788	0	127	NM	2,449	0	392	12,763	93	NM	NM
Year 2016															
January	907	45	106	7,551	885	0	127	NM	2,439	0	402	12,464	97	NM	NM
February	848	NM	77	7,031	805	0	124	NM	2,273	0	342	11,540	106	NM	NM
March	881	NM	88	7,541	864	0	139	NM	2,332	0	382	12,253	148	NM	NM
April	726	25	93	7,207	816	0	123	NM	2,124	0	389	11,506	163	NM	NM
May	771	NM	93	7,478	685	0	123	NM	2,279	0	420	11,902	179	NM	NM
June	851	36	91	7,656	707	0	96	NM	2,314	0	409	12,162	183	NM	NM
July	921	48	92	8,037	706	0	92	NM	2,412	0	437	12,748	190	NM	NM
August	896	NM	94	8,111	757	0	81	3	2,362	0	442	12,792	187	190	190
Year to Date															
2014	8,405	382	936	57,194	5,526	0	879	11	19,275	0	3,210	95,817	778	790	790
2015	7,873	395	749	56,811	6,372	0	928	21	19,144	0	3,149	95,444	998	1,019	1,019
2016	6,800	309	734	60,612	6,226	0	905	22	18,535	0	3,223	97,367	1,251	1,274	1,274
Rolling 12 Months Ending in August															
2015	11,809	558	1,203	85,827	9,510	0	1,331	NM	28,529	0	4,918	143,709	1,359	NM	NM
2016	10,560	NM	NM	90,241	9,162	0	1,300	NM	28,022	0	4,836	145,697	1,705	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.

Distributed generation and capacity have been updated and finalized for 2014 and 2015; distributed data for 2016 have also been refreshed.

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;

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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-August 2016
(Thousand Megawatthours)**

Distributed Generation	
Period	Estimated Distributed Solar Photovoltaic Generation
Annual Totals	
2014	4,947
2015	6,999
Year 2014	
January	263
February	277
March	382
April	421
May	468
June	478
July	502
August	503
Sept	472
October	445
November	373
December	363
Year 2015	
January	340
February	375
March	536
April	609
May	676
June	693
July	741
August	746
Sept	679
October	618
November	515
December	471
Year 2016	
January	509
February	607
March	821
April	931
May	1,035
June	1,085
July	1,132
August	1,101
Year to Date	
2014	3,294
2015	4,715
2016	7,221
Rolling 12 Months Ending in August	
2015	6,368
2016	9,504

Distributed generation and capacity have been updated and finalized for 2014 and 2015; distributed data for 2016 have also been refreshed. 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, August 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	11,082	11,164	-0.7%	265	261	10,420	10,503	125	126	272	274
Connecticut	3,402	3,437	-1.0%	NM	NM	3,311	3,346	40	NM	47	NM
Maine	1,214	993	22.2%	NM	NM	995	767	18	21	202	205
Massachusetts	3,674	3,776	-2.7%	93	115	3,506	3,591	55	53	NM	NM
New Hampshire	1,864	1,843	1.2%	103	69	1,753	1,765	NM	NM	NM	NM
Rhode Island	775	948	-18.2%	1	NM	768	940	NM	NM	0	0
Vermont	151	167	-9.5%	63	72	88	95	NM	NM	0	0
Middle Atlantic	44,392	40,824	8.7%	3,667	3,482	40,105	36,714	209	219	411	408
New Jersey	8,482	6,991	21.3%	0	3	8,360	6,865	65	64	57	60
New York	14,267	13,445	6.1%	3,658	3,470	10,411	9,778	120	117	79	79
Pennsylvania	21,642	20,388	6.2%	NM	NM	21,335	20,072	24	38	275	269
East North Central	58,229	55,116	5.6%	25,972	25,867	31,228	28,117	206	203	823	929
Illinois	17,756	17,245	3.0%	739	892	16,742	16,050	41	47	234	257
Indiana	9,710	9,665	0.5%	8,580	8,435	829	877	28	27	273	326
Michigan	11,275	10,515	7.2%	8,140	7,996	2,903	2,291	100	100	133	128
Ohio	12,611	11,436	10.3%	2,910	3,532	9,611	7,819	NM	NM	73	72
Wisconsin	6,877	6,255	10.0%	5,603	5,012	1,143	1,080	NM	NM	17	110
West North Central	32,166	30,176	6.6%	28,534	26,618	3,177	3,118	74	55	382	385
Iowa	5,029	4,989	0.8%	4,087	3,890	725	883	NM	17	193	200
Kansas	4,904	4,299	14.1%	4,038	3,639	840	645	0	0	27	NM
Minnesota	5,683	4,926	15.4%	4,821	4,066	715	720	NM	20	118	121
Missouri	8,252	8,141	1.4%	7,916	7,817	313	305	19	17	NM	NM
Nebraska	3,660	3,714	-1.5%	3,435	3,481	195	198	NM	NM	28	33
North Dakota	3,587	3,126	14.7%	3,318	2,879	257	233	NM	NM	NM	14
South Dakota	1,051	981	7.2%	919	846	132	135	NM	NM	0	0
South Atlantic	83,769	76,515	9.5%	69,032	63,961	13,065	10,800	137	132	1,535	1,622
Delaware	1,100	828	32.7%	NM	NM	965	708	NM	NM	122	113
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	23,955	22,846	4.9%	21,687	21,019	1,804	1,347	NM	NM	455	472
Georgia	13,748	12,897	6.6%	11,955	10,595	1,406	1,888	NM	3	386	411
Maryland	4,382	3,096	41.6%	NM	3	4,305	3,028	54	NM	20	16
North Carolina	14,046	12,569	11.8%	12,663	11,504	1,223	890	23	20	137	155
South Carolina	9,162	9,005	1.7%	8,668	8,650	330	199	NM	NM	161	155
Virginia	9,839	8,547	15.1%	8,026	6,920	1,587	1,365	40	45	186	218
West Virginia	7,531	6,720	12.1%	6,018	5,262	1,444	1,375	0	0	69	83
East South Central	37,724	35,550	6.1%	31,682	29,972	5,244	4,777	NM	NM	781	786
Alabama	14,213	14,342	-0.9%	9,408	10,128	4,433	3,839	0	0	372	376
Kentucky	8,313	7,525	10.5%	8,144	7,390	116	86	0	0	53	49
Mississippi	6,984	6,202	12.6%	6,145	5,204	675	831	NM	NM	162	164
Tennessee	8,214	7,480	9.8%	7,986	7,250	20	20	NM	NM	194	197
West South Central	70,540	70,442	0.1%	28,032	26,300	37,559	37,442	107	96	6,842	6,603
Arkansas	6,563	5,819	12.8%	4,575	4,121	1,851	1,559	NM	NM	136	138
Louisiana	10,043	10,345	-2.9%	6,508	6,657	790	1,011	NM	17	2,730	2,661
Oklahoma	7,507	7,510	0.0%	4,862	4,848	2,568	2,568	NM	NM	72	91
Texas	46,427	46,768	-0.7%	10,088	10,673	32,349	32,304	85	77	3,904	3,713
Mountain	36,124	37,187	-2.9%	28,147	29,425	7,620	7,395	46	47	311	320
Arizona	12,136	12,672	-4.2%	9,406	9,819	2,717	2,840	13	13	0	0
Colorado	5,028	4,962	1.3%	4,166	4,119	853	833	NM	NM	5	NM
Idaho	1,437	1,342	7.1%	964	894	436	415	0	0	36	33
Montana	2,379	2,333	2.0%	691	652	1,686	1,679	0	0	NM	NM
Nevada	4,078	4,176	-2.3%	3,215	3,439	831	704	13	15	19	18
New Mexico	2,722	3,172	-14.2%	2,088	2,615	622	546	9	9	NM	NM
Utah	3,769	3,975	-5.2%	3,333	3,641	293	193	7	7	136	134
Wyoming	4,576	4,556	0.4%	4,283	4,245	182	184	0	0	111	126
Pacific Contiguous	35,506	35,324	0.5%	19,202	18,718	14,677	14,896	245	244	1,383	1,466
California	21,319	21,105	1.0%	8,453	7,546	11,422	12,035	230	231	1,214	1,292
Oregon	4,855	4,686	3.6%	3,335	3,017	1,460	1,608	NM	NM	50	51
Washington	9,332	9,533	-2.1%	7,414	8,155	1,795	1,253	NM	NM	119	123
Pacific Noncontiguous	1,354	1,407	-3.8%	876	947	372	365	53	47	NM	48
Alaska	470	477	-1.5%	431	431	NM	21	13	13	NM	12
Hawaii	884	930	-4.9%	445	517	357	344	40	34	NM	36
U.S. Total	410,885	393,704	4.4%	233,408	225,550	163,468	154,128	1,217	1,184	12,792	12,842

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.

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

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

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

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

Table 1.3.B. Utility Scale Facility Net Generation

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	75,056	76,990	-2.5%	1,835	2,601	70,323	71,211	876	968	2,022	2,210
Connecticut	24,126	25,552	-5.6%	NM	NM	23,515	24,915	266	292	311	315
Maine	8,559	8,072	6.0%	NM	NM	6,864	6,162	135	153	1,561	1,757
Massachusetts	23,424	22,172	5.6%	425	520	22,478	21,114	390	421	131	118
New Hampshire	12,840	14,818	-13.3%	734	1,429	12,049	13,319	37	50	NM	NM
Rhode Island	4,671	4,979	-6.2%	7	9	4,618	4,921	45	50	0	0
Vermont	1,436	1,397	2.9%	635	613	799	781	NM	NM	0	0
Middle Atlantic	290,256	292,489	-0.8%	24,742	23,312	260,860	264,564	1,563	1,606	3,092	3,005
New Jersey	52,928	49,763	6.4%	15	7	52,033	48,897	468	462	412	397
New York	92,683	94,023	-1.4%	24,655	23,240	66,507	69,304	853	861	667	618
Pennsylvania	144,645	148,703	-2.7%	71	NM	142,319	146,363	242	283	2,012	1,991
East North Central	397,469	413,492	-3.9%	174,523	188,393	215,079	216,844	1,421	1,451	6,446	6,804
Illinois	125,549	131,662	-4.6%	6,506	6,756	117,004	122,721	309	373	1,729	1,812
Indiana	68,655	72,317	-5.1%	58,134	61,990	8,327	7,998	185	160	2,009	2,169
Michigan	78,686	78,095	0.8%	54,493	57,932	22,472	18,463	671	714	1,050	986
Ohio	79,686	85,807	-7.1%	20,070	25,915	58,938	59,227	105	77	574	587
Wisconsin	44,894	45,611	-1.6%	35,321	35,800	8,338	8,434	151	127	1,083	1,250
West North Central	221,735	224,326	-1.2%	186,623	193,087	31,839	27,953	510	435	2,763	2,851
Iowa	36,492	39,487	-7.6%	26,960	29,820	7,976	8,071	181	153	1,374	1,444
Kansas	33,202	31,006	7.1%	24,435	24,682	8,614	6,256	0	0	152	69
Minnesota	40,459	38,380	5.4%	32,413	30,947	6,982	6,329	185	154	879	950
Missouri	54,769	57,878	-5.4%	52,483	56,034	2,125	1,704	131	117	30	23
Nebraska	25,249	26,245	-3.8%	22,892	24,114	2,124	1,867	12	10	221	254
North Dakota	24,384	24,992	-2.4%	21,598	22,313	2,680	2,568	NM	NM	106	111
South Dakota	7,180	6,336	13.3%	5,842	5,177	1,338	1,159	NM	NM	0	0
South Atlantic	559,518	550,347	1.7%	465,258	460,392	81,317	76,769	971	924	11,972	12,262
Delaware	6,176	5,619	9.9%	NM	NM	5,258	4,751	NM	NM	860	821
District of Columbia	44	46	-5.4%	0	0	0	0	44	46	0	0
Florida	162,764	160,793	1.2%	147,082	148,353	12,128	8,878	63	42	3,490	3,520
Georgia	91,685	90,338	1.5%	78,280	75,271	10,337	11,874	8	23	3,059	3,170
Maryland	25,748	25,982	-0.9%	15	17	25,202	25,442	351	328	180	195
North Carolina	90,632	90,819	-0.2%	81,976	84,010	7,452	5,594	191	167	1,013	1,049
South Carolina	66,663	66,779	-0.2%	63,293	64,227	2,129	1,372	NM	NM	1,226	1,174
Virginia	64,073	58,615	9.3%	53,304	47,187	8,933	9,580	295	306	1,541	1,541
West Virginia	51,733	51,356	0.7%	41,254	41,285	9,878	9,279	0	0	602	792
East South Central	251,215	261,801	-4.0%	211,148	221,342	33,946	34,322	108	102	6,013	6,036
Alabama	97,503	103,522	-5.8%	67,536	73,448	27,084	27,154	0	0	2,883	2,920
Kentucky	54,841	59,007	-7.1%	54,004	58,132	438	452	0	0	400	424
Mississippi	45,427	45,209	0.5%	37,886	37,415	6,264	6,554	NM	NM	1,263	1,225
Tennessee	53,444	54,063	-1.1%	51,722	52,347	161	162	93	88	1,468	1,467
West South Central	472,749	472,175	0.1%	165,503	168,689	254,574	253,896	743	654	51,929	48,937
Arkansas	40,852	40,741	0.3%	29,771	28,300	9,990	11,214	NM	NM	1,086	1,222
Louisiana	73,595	72,404	1.6%	44,919	44,668	7,395	7,813	123	124	21,158	19,799
Oklahoma	51,313	51,812	-1.0%	29,795	33,997	20,940	17,237	NM	NM	552	572
Texas	306,989	307,217	-0.1%	61,017	61,724	216,249	217,632	590	517	29,133	27,343
Mountain	243,753	249,502	-2.3%	191,445	199,891	49,783	47,142	324	326	2,201	2,143
Arizona	74,514	75,691	-1.6%	61,492	62,926	12,927	12,670	94	96	0	0
Colorado	36,794	34,988	5.2%	28,668	28,138	8,060	6,779	24	28	42	43
Idaho	11,309	10,550	7.2%	7,596	7,105	3,368	3,126	0	0	346	320
Montana	18,125	19,849	-8.7%	7,439	7,837	10,673	11,999	0	0	13	13
Nevada	26,918	25,698	4.7%	20,700	20,179	5,959	5,275	93	89	165	155
New Mexico	21,273	21,699	-2.0%	15,851	17,311	5,327	4,298	64	65	NM	25
Utah	24,315	28,197	-13.8%	21,988	26,282	1,571	1,248	48	49	708	618
Wyoming	30,505	32,830	-7.1%	27,711	30,113	1,897	1,748	0	0	897	969
Pacific Contiguous	253,742	245,567	3.3%	155,139	144,545	86,210	88,325	1,814	1,859	10,579	10,838
California	135,105	131,822	2.5%	55,130	48,678	69,012	71,923	1,714	1,764	9,249	9,457
Oregon	40,716	38,800	4.9%	30,398	28,303	9,869	9,996	NM	71	380	429
Washington	77,920	74,945	4.0%	69,611	67,563	7,328	6,406	NM	24	950	952
Pacific Noncontiguous	10,048	10,588	-5.1%	6,680	7,273	2,644	2,597	374	362	350	356
Alaska	3,709	4,087	-9.3%	3,385	3,732	135	162	109	107	80	86
Hawaii	6,339	6,501	-2.5%	3,296	3,542	2,509	2,435	264	254	270	270
U.S. Total	2,775,540	2,797,277	-0.8%	1,582,897	1,609,526	1,086,574	1,083,623	8,702	8,685	97,367	95,444

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

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

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

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	214	43	391.9%	48	10	163	30	0	0	NM	NM
Connecticut	12	-3	-494.6%	0	0	12	-3	0	0	0	0
Maine	5	4	17.1%	0	0	4	4	0	0	1	1
Massachusetts	149	32	367.4%	0	0	147	30	0	0	NM	NM
New Hampshire	48	10	362.1%	48	10	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	6,583	6,571	0.2%	0	0	6,520	6,502	NM	NM	63	69
New Jersey	153	103	49.2%	0	0	153	103	0	0	0	0
New York	371	180	105.7%	0	0	342	152	0	0	29	29
Pennsylvania	6,059	6,288	-3.6%	0	0	6,024	6,248	NM	NM	34	40
East North Central	29,048	30,564	-5.0%	16,980	19,453	11,870	10,872	NM	14	192	225
Illinois	6,404	7,231	-11.4%	394	761	5,873	6,315	NM	3	135	152
Indiana	7,217	7,673	-5.9%	6,888	7,165	322	502	5	4	NM	NM
Michigan	3,995	5,044	-20.8%	3,951	4,994	38	36	0	6	NM	8
Ohio	7,711	6,851	12.6%	2,063	2,822	5,636	4,018	NM	NM	12	10
Wisconsin	3,722	3,765	-1.1%	3,684	3,710	0	0	NM	NM	37	55
West North Central	20,012	19,056	5.0%	19,741	18,759	NM	NM	NM	8	254	287
Iowa	3,200	3,122	2.5%	3,025	2,936	0	0	NM	8	164	179
Kansas	2,773	2,488	11.5%	2,773	2,488	0	0	0	0	0	0
Minnesota	2,337	1,984	17.8%	2,283	1,917	0	0	NM	0	54	66
Missouri	6,395	6,378	0.3%	6,386	6,374	NM	NM	3	0	NM	NM
Nebraska	2,305	2,384	-3.3%	2,278	2,350	0	0	0	0	27	33
North Dakota	2,781	2,493	11.5%	2,775	2,486	0	0	0	0	NM	7
South Dakota	222	207	7.3%	222	207	0	0	0	0	0	0
South Atlantic	27,811	24,939	11.5%	24,055	22,047	3,651	2,682	NM	NM	102	205
Delaware	109	67	62.2%	0	0	109	67	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,504	4,184	7.6%	4,341	3,963	143	193	0	0	NM	NM
Georgia	4,620	4,398	5.0%	4,600	4,376	0	0	0	0	NM	21
Maryland	1,852	1,094	69.3%	0	0	1,846	1,084	0	NM	6	10
North Carolina	5,316	4,675	13.7%	5,200	4,535	NM	108	2	3	NM	30
South Carolina	2,407	2,261	6.5%	2,398	2,249	0	0	0	0	NM	12
Virginia	1,729	1,855	-6.8%	1,578	1,715	116	90	NM	NM	NM	48
West Virginia	7,274	6,404	13.6%	5,937	5,210	1,336	1,140	0	0	2	55
East South Central	14,997	15,383	-2.5%	14,593	14,968	309	315	0	0	95	99
Alabama	3,812	4,465	-14.6%	3,795	4,457	0	0	0	0	NM	NM
Kentucky	6,866	6,521	5.3%	6,866	6,521	0	0	0	0	0	0
Mississippi	644	813	-20.8%	335	498	309	315	0	0	0	0
Tennessee	3,675	3,583	2.5%	3,597	3,492	0	0	0	0	78	91
West South Central	19,676	20,001	-1.6%	10,145	10,436	9,495	9,511	0	0	NM	54
Arkansas	2,606	2,258	15.4%	2,145	1,807	456	447	0	0	4	4
Louisiana	1,393	1,615	-13.7%	949	1,072	444	543	0	0	0	0
Oklahoma	2,269	2,678	-15.3%	2,030	2,392	207	236	0	0	NM	50
Texas	13,408	13,450	-0.3%	5,021	5,165	8,387	8,285	0	0	0	0
Mountain	16,270	17,531	-7.2%	14,443	15,705	1,707	1,695	0	0	120	131
Arizona	3,278	3,482	-5.9%	3,278	3,482	0	0	0	0	0	0
Colorado	2,907	3,069	-5.3%	2,902	3,058	NM	NM	0	0	0	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	1,527	1,514	0.9%	NM	NM	1,498	1,487	0	0	NM	NM
Nevada	457	457	-0.1%	352	360	105	97	0	0	0	0
New Mexico	1,379	1,923	-28.3%	1,379	1,923	0	0	0	0	0	0
Utah	2,588	2,940	-12.0%	2,472	2,820	NM	NM	0	0	86	83
Wyoming	4,128	4,139	-0.3%	4,033	4,034	NM	NM	0	0	28	41
Pacific Contiguous	1,193	1,010	18.1%	357	367	810	613	0	0	26	30
California	24	36	-34.9%	0	0	0	NM	0	0	24	28
Oregon	357	367	-2.8%	357	367	0	0	0	0	0	0
Washington	812	607	33.9%	0	0	810	605	0	0	2	2
Pacific Noncontiguous	172	187	-8.0%	23	24	136	150	8	8	NM	NM
Alaska	44	50	-12.5%	23	24	NM	18	8	8	0	0
Hawaii	128	137	-6.4%	0	0	124	132	0	0	NM	NM
U.S. Total	135,976	135,285	0.5%	100,386	101,770	34,661	32,373	33	35	896	1,108

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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 August 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	1,739	3,234	-46.2%	259	869	1,459	2,323	0	0	21	41
Connecticut	70	597	-88.2%	0	0	70	597	0	0	0	0
Maine	44	69	-36.0%	0	0	38	46	0	0	6	24
Massachusetts	1,365	1,698	-19.6%	0	0	1,350	1,681	0	0	15	18
New Hampshire	259	869	-70.2%	259	869	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	39,741	51,673	-23.1%	0	0	39,227	51,138	NM	NM	510	529
New Jersey	903	1,359	-33.6%	0	0	903	1,359	0	0	0	0
New York	1,440	1,965	-26.7%	0	0	1,204	1,756	0	0	235	209
Pennsylvania	37,399	48,350	-22.6%	0	0	37,120	48,024	NM	NM	275	320
East North Central	184,343	222,162	-17.0%	115,149	139,881	67,592	80,336	69	111	1,533	1,834
Illinois	40,079	52,657	-23.9%	5,107	6,278	33,954	45,253	21	29	997	1,098
Indiana	48,864	55,420	-11.8%	46,197	51,785	2,627	3,595	30	29	NM	11
Michigan	27,585	36,223	-23.8%	27,223	35,819	289	276	15	50	57	77
Ohio	45,727	52,237	-12.5%	14,879	20,891	30,722	31,212	NM	NM	124	134
Wisconsin	22,088	25,624	-13.8%	21,743	25,108	0	0	NM	NM	344	515
West North Central	123,630	139,256	-11.2%	121,652	137,014	15	20	97	114	1,866	2,109
Iowa	17,418	22,413	-22.3%	16,172	21,062	0	0	75	73	1,171	1,279
Kansas	15,327	17,957	-14.6%	15,327	17,957	0	0	0	0	0	0
Minnesota	15,389	17,424	-11.7%	14,972	16,921	0	0	NM	NM	416	502
Missouri	42,225	45,383	-7.0%	42,165	45,303	15	20	21	40	24	20
Nebraska	14,153	16,456	-14.0%	13,946	16,205	0	0	0	0	207	252
North Dakota	17,612	18,893	-6.8%	17,564	18,836	0	0	0	0	47	57
South Dakota	1,506	730	106.4%	1,506	730	0	0	0	0	0	0
South Atlantic	163,973	179,852	-8.8%	143,292	157,337	19,655	21,115	44	53	982	1,347
Delaware	449	545	-17.7%	0	0	449	545	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	25,620	29,715	-13.8%	24,881	28,687	584	858	0	0	NM	170
Georgia	26,147	29,027	-9.9%	25,984	28,856	0	0	0	0	164	170
Maryland	9,511	10,980	-13.4%	0	0	9,463	10,895	0	NM	49	84
North Carolina	26,035	31,851	-18.3%	25,365	31,085	496	572	34	41	NM	154
South Carolina	15,348	16,954	-9.5%	15,254	16,841	0	0	0	0	94	113
Virginia	11,837	12,183	-2.8%	11,109	11,048	449	840	NM	NM	268	284
West Virginia	49,027	48,597	0.9%	40,700	40,821	8,214	7,405	0	0	113	372
East South Central	92,502	109,896	-15.8%	89,826	106,938	1,937	2,177	0	0	739	780
Alabama	22,327	29,279	-23.7%	22,220	29,182	0	0	0	0	107	97
Kentucky	45,229	52,023	-13.1%	45,229	52,023	0	0	0	0	0	0
Mississippi	3,621	5,187	-30.2%	1,683	3,010	1,937	2,177	0	0	0	0
Tennessee	21,326	23,407	-8.9%	20,694	22,724	0	0	0	0	632	683
West South Central	108,394	128,570	-15.7%	55,475	67,172	52,645	61,105	0	0	274	293
Arkansas	14,114	15,822	-10.8%	11,253	12,860	2,827	2,925	0	0	34	37
Louisiana	8,391	10,870	-22.8%	5,716	6,027	2,675	4,844	0	0	0	0
Oklahoma	11,173	17,748	-37.0%	9,739	16,432	1,195	1,059	0	0	239	257
Texas	74,716	84,129	-11.2%	28,766	31,853	45,949	52,277	0	0	0	0
Mountain	103,314	122,896	-15.9%	92,705	110,713	10,011	11,522	0	0	599	660
Arizona	19,319	24,489	-21.1%	19,319	24,489	0	0	0	0	0	0
Colorado	19,718	21,921	-10.1%	19,669	21,867	NM	NM	0	0	NM	NM
Idaho	41	49	-16.0%	0	0	0	0	0	0	41	49
Montana	8,935	10,403	-14.1%	169	194	8,761	10,205	0	0	NM	NM
Nevada	1,654	1,806	-8.4%	1,067	1,257	587	549	0	0	0	0
New Mexico	11,247	13,499	-16.7%	11,247	13,499	0	0	0	0	0	0
Utah	16,264	21,590	-24.7%	15,746	21,040	194	239	0	0	324	311
Wyoming	26,137	29,139	-10.3%	25,487	28,367	423	479	0	0	227	292
Pacific Contiguous	3,243	3,821	-15.1%	1,022	995	1,972	2,576	0	0	249	251
California	226	270	-16.4%	0	0	0	NM	0	0	226	227
Oregon	1,022	995	2.7%	1,022	995	0	0	0	0	0	0
Washington	1,995	2,556	-21.9%	0	0	1,972	2,532	0	0	23	23
Pacific Noncontiguous	1,399	1,281	9.3%	209	196	1,095	989	68	68	NM	NM
Alaska	378	394	-3.8%	209	196	101	130	68	68	0	0
Hawaii	1,021	887	15.1%	0	0	993	859	0	0	NM	NM
U.S. Total	822,277	962,640	-14.6%	619,587	721,116	195,608	233,300	282	351	6,800	7,873

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, August 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	70	31	124.8%	NM	6	56	20	NM	NM	NM	NM
Connecticut	29	9	230.5%	NM	NM	27	7	NM	NM	NM	NM
Maine	NM	6	NM	NM	NM	8	5	NM	NM	NM	NM
Massachusetts	26	11	125.6%	NM	NM	20	8	NM	NM	NM	NM
New Hampshire	NM	3	NM	NM	3	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	140	77	82.4%	77	23	55	45	NM	NM	NM	3
New Jersey	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
New York	105	48	118.9%	76	23	NM	18	NM	NM	2	2
Pennsylvania	NM	25	NM	NM	NM	NM	24	NM	NM	NM	NM
East North Central	46	48	-3.4%	27	33	18	12	NM	NM	1	3
Illinois	NM	5	NM	NM	2	4	3	NM	NM	NM	NM
Indiana	NM	11	NM	NM	9	NM	NM	NM	NM	1	2
Michigan	10	13	-23.4%	10	12	0	NM	NM	NM	NM	NM
Ohio	18	14	22.2%	5	7	13	7	NM	NM	NM	NM
Wisconsin	NM	5	NM	NM	2	1	2	NM	NM	NM	NM
West North Central	19	21	-8.2%	18	20	NM	NM	NM	NM	NM	NM
Iowa	NM	3	NM	NM	3	NM	NM	NM	NM	NM	NM
Kansas	1	3	-77.2%	1	3	0	0	0	0	0	0
Minnesota	NM	4	NM	NM	2	NM	NM	NM	NM	NM	NM
Missouri	NM	7	NM	NM	6	0	0	NM	NM	0	0
Nebraska	3	NM	NM	3	NM	0	0	0	0	0	0
North Dakota	NM	1	NM	NM	1	0	0	NM	NM	NM	NM
South Dakota	NM	2	NM	NM	2	NM	NM	NM	NM	0	0
South Atlantic	284	151	88.8%	234	120	41	24	NM	NM	NM	6
Delaware	NM	5	NM	NM	NM	NM	5	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	156	29	433.6%	153	27	NM	NM	0	0	NM	NM
Georgia	7	6	30.0%	4	3	NM	NM	NM	NM	NM	NM
Maryland	23	12	82.8%	NM	NM	21	10	NM	NM	NM	NM
North Carolina	17	15	18.3%	16	13	NM	NM	NM	NM	NM	NM
South Carolina	7	8	-12.2%	6	7	NM	NM	NM	NM	1	1
Virginia	58	65	-11.0%	45	57	12	7	NM	NM	NM	NM
West Virginia	11	11	7.6%	9	10	2	0	0	0	0	0
East South Central	26	25	4.4%	22	23	NM	NM	NM	NM	NM	NM
Alabama	NM	5	NM	1	3	NM	NM	0	0	NM	NM
Kentucky	8	9	-14.3%	8	9	0	0	0	0	0	0
Mississippi	1	1	58.0%	1	1	0	0	0	0	0	0
Tennessee	13	10	25.3%	13	10	NM	NM	NM	NM	NM	NM
West South Central	10	11	-2.7%	6	6	4	4	NM	NM	NM	NM
Arkansas	2	3	-37.6%	1	2	0	0	0	0	0	0
Louisiana	0	1	-26.4%	0	0	0	0	0	0	0	0
Oklahoma	NM	NM	NM	1	NM	0	0	NM	NM	NM	NM
Texas	8	7	2.1%	4	3	4	4	NM	NM	NM	NM
Mountain	NM	18	NM	NM	16	2	1	NM	NM	NM	NM
Arizona	NM	3	NM	NM	3	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	2	NM	NM	NM	1	1	0	0	0	0
Nevada	1	2	-37.7%	1	2	0	0	0	0	0	0
New Mexico	NM	5	NM	NM	5	0	0	0	0	NM	NM
Utah	3	2	57.5%	3	2	NM	NM	0	0	NM	NM
Wyoming	4	4	-4.6%	3	3	0	0	0	0	NM	NM
Pacific Contiguous	7	8	-8.5%	NM	5	NM	NM	NM	NM	NM	NM
California	5	6	-8.4%	3	4	NM	NM	NM	NM	NM	NM
Oregon	NM	1	NM	0	1	0	0	NM	NM	0	0
Washington	NM	NM	NM	NM	NM	1	NM	NM	NM	NM	NM
Pacific Noncontiguous	651	720	-9.7%	488	566	137	134	1	NM	NM	20
Alaska	60	75	-19.9%	57	70	0	0	NM	NM	3	5
Hawaii	591	646	-8.5%	431	496	137	134	1	0	NM	16
U.S. Total	1,271	1,109	14.6%	897	817	316	243	NM	12	NM	37

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	364	1,976	-81.6%	44	173	278	1,680	34	88	NM	35
Connecticut	74	415	-82.1%	4	5	66	402	NM	NM	NM	NM
Maine	100	508	-80.3%	NM	NM	93	474	NM	NM	NM	31
Massachusetts	148	779	-81.0%	15	54	112	671	19	53	NM	NM
New Hampshire	22	168	-86.7%	16	103	NM	52	NM	NM	NM	NM
Rhode Island	18	103	-82.1%	7	9	6	80	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	790	2,578	-69.3%	271	794	468	1,669	NM	50	28	64
New Jersey	62	287	-78.5%	NM	NM	60	285	NM	NM	NM	NM
New York	531	1,779	-70.1%	270	793	218	881	NM	48	23	57
Pennsylvania	197	512	-61.5%	1	NM	191	504	NM	NM	5	NM
East North Central	387	417	-7.3%	251	291	118	103	NM	NM	13	19
Illinois	49	37	33.9%	13	14	35	23	1	NM	NM	NM
Indiana	82	121	-32.0%	74	108	NM	NM	NM	NM	8	12
Michigan	91	85	6.8%	88	82	0	NM	NM	NM	NM	2
Ohio	137	149	-7.7%	54	68	80	77	NM	NM	2	NM
Wisconsin	27	25	5.7%	21	19	3	3	NM	NM	NM	NM
West North Central	164	218	-24.7%	154	203	NM	NM	4	4	NM	NM
Iowa	33	32	5.9%	33	31	1	NM	NM	NM	NM	NM
Kansas	15	35	-56.3%	15	35	0	0	0	0	0	0
Minnesota	26	32	-17.9%	18	19	NM	NM	3	3	NM	NM
Missouri	48	65	-26.3%	48	65	0	0	NM	NM	0	0
Nebraska	18	17	5.5%	18	17	0	0	0	0	0	0
North Dakota	19	18	7.3%	19	18	0	0	NM	NM	NM	NM
South Dakota	NM	18	NM	NM	18	NM	NM	NM	NM	0	0
South Atlantic	1,707	2,521	-32.3%	1,289	1,846	353	581	NM	NM	62	71
Delaware	51	143	-64.2%	NM	NM	49	140	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	579	399	45.3%	557	378	NM	4	0	0	18	16
Georgia	93	134	-30.8%	49	57	20	46	2	2	22	28
Maryland	149	209	-28.7%	NM	10	139	179	NM	NM	2	NM
North Carolina	203	370	-45.1%	167	338	30	23	NM	NM	NM	9
South Carolina	94	171	-45.0%	82	148	NM	13	NM	NM	10	10
Virginia	460	993	-53.7%	352	824	103	163	NM	NM	NM	6
West Virginia	77	102	-23.9%	73	88	4	13	0	0	0	0
East South Central	210	272	-22.9%	187	238	6	13	NM	NM	18	21
Alabama	40	70	-43.6%	19	40	5	12	0	0	NM	18
Kentucky	72	87	-16.5%	72	87	0	0	0	0	0	0
Mississippi	11	12	-8.3%	10	11	0	0	0	0	1	2
Tennessee	87	103	-15.9%	85	101	1	NM	NM	NM	NM	NM
West South Central	105	188	-44.2%	68	114	33	66	NM	NM	NM	7
Arkansas	27	39	-30.1%	18	26	7	7	0	0	2	5
Louisiana	11	64	-82.8%	9	53	2	11	0	0	0	0
Oklahoma	10	5	91.4%	9	5	0	0	NM	NM	NM	NM
Texas	57	81	-28.7%	31	30	25	49	NM	NM	NM	NM
Mountain	161	159	1.2%	141	142	16	12	NM	NM	NM	4
Arizona	36	32	12.4%	36	32	0	0	NM	NM	0	0
Colorado	NM	7	NM	NM	7	0	0	0	0	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	15	NM	NM	NM	13	10	0	0	0	0
Nevada	9	12	-20.9%	7	10	2	2	0	0	0	0
New Mexico	37	49	-25.9%	37	49	0	0	0	0	NM	NM
Utah	20	13	51.0%	19	12	NM	NM	0	0	NM	NM
Wyoming	35	31	13.3%	31	27	0	0	0	0	4	4
Pacific Contiguous	85	81	5.0%	26	28	11	22	NM	NM	48	31
California	69	65	6.5%	22	23	NM	18	NM	NM	42	24
Oregon	2	4	-42.7%	2	4	0	0	NM	NM	0	0
Washington	14	12	11.7%	NM	NM	7	5	NM	NM	6	6
Pacific Noncontiguous	4,694	5,101	-8.0%	3,661	3,962	906	993	5	4	NM	142
Alaska	476	530	-10.2%	447	496	0	0	NM	NM	26	32
Hawaii	4,218	4,571	-7.7%	3,214	3,466	906	993	3	2	NM	110
U.S. Total	8,667	13,511	-35.8%	6,092	7,793	2,194	5,150	73	172	309	395

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

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

Census Division and State	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	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 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	203	331	-38.7%	86	205	100	100	0	0	NM	26
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	124	-100.0%	0	124	0	0	0	0	0	0
Michigan	88	85	3.7%	72	70	0	1	0	0	NM	NM
Ohio	100	100	0.6%	0	0	100	99	0	0	NM	NM
Wisconsin	14	22	-33.7%	14	10	0	0	0	0	0	11
West North Central	NM	NM	NM	0	0	0	0	0	1	NM	NM
Iowa	NM	NM	NM	0	0	0	0	0	1	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	244	220	10.8%	235	207	0	0	0	0	9	14
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	235	207	13.6%	235	207	0	0	0	0	0	0
Georgia	9	14	-31.1%	0	0	0	0	0	0	9	14
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	77	56.3%	120	77	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	120	77	56.3%	120	77	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	453	374	21.3%	416	339	0	0	0	0	NM	NM
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	443	363	22.1%	416	339	0	0	0	0	NM	NM
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	11	NM	0	0	0	0	0	0	NM	11
Mountain	40	42	-3.8%	0	0	40	42	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	40	42	-3.8%	0	0	40	42	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	1,091	1,071	1.8%	856	827	140	143	0	1	94	100

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 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	157	134	16.8%	0	0	0	0	0	0	157	134
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	126	124	2.1%	0	0	0	0	0	0	126	124
East North Central	1,725	2,244	-23.1%	950	1,270	622	785	0	0	153	188
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	497	745	-33.3%	497	745	0	0	0	0	0	0
Michigan	524	596	-12.0%	405	482	3	14	0	0	117	100
Ohio	625	772	-19.1%	0	0	619	771	0	0	NM	NM
Wisconsin	79	131	-39.7%	48	44	0	0	0	0	31	87
West North Central	60	49	21.4%	0	0	0	0	4	5	55	44
Iowa	60	49	21.4%	0	0	0	0	4	5	55	44
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	1,698	1,228	38.3%	1,613	1,111	0	0	0	0	85	116
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	1,613	1,111	45.2%	1,613	1,111	0	0	0	0	0	0
Georgia	85	116	-26.9%	0	0	0	0	0	0	85	116
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	799	719	11.1%	799	719	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	799	719	11.1%	799	719	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	3,314	2,944	12.6%	3,031	2,678	0	0	0	0	283	266
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	3,231	2,847	13.5%	3,031	2,678	0	0	0	0	200	169
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	83	98	-14.7%	0	0	0	0	0	0	83	98
Mountain	284	320	-11.2%	0	0	284	320	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	284	320	-11.2%	0	0	284	320	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	8,037	7,642	5.2%	6,393	5,778	906	1,110	4	5	734	749

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	6,531	6,620	-1.3%	82	107	6,213	6,296	98	97	138	119
Connecticut	1,734	1,722	0.7%	1	0	1,647	1,635	39	NM	47	NM
Maine	573	315	81.7%	0	0	499	258	NM	NM	71	NM
Massachusetts	2,834	3,010	-5.8%	71	94	2,696	2,853	49	48	NM	NM
New Hampshire	639	649	-1.5%	10	14	625	631	NM	NM	NM	NM
Rhode Island	751	924	-18.7%	0	0	746	919	NM	NM	0	0
Vermont	0	0	NM	0	0	0	0	0	0	0	0
Middle Atlantic	20,438	16,396	24.7%	1,740	1,421	18,387	14,682	117	107	194	185
New Jersey	5,392	3,737	44.3%	NM	NM	5,319	3,666	NM	NM	39	NM
New York	7,342	6,358	15.5%	1,723	1,409	5,511	4,857	78	71	30	NM
Pennsylvania	7,703	6,301	22.2%	NM	NM	7,557	6,159	NM	NM	125	125
East North Central	12,958	7,857	64.9%	6,201	3,335	6,419	4,214	164	146	173	161
Illinois	2,299	1,008	127.9%	340	123	1,871	796	39	44	49	NM
Indiana	2,004	1,332	50.5%	1,603	1,068	332	188	20	NM	49	57
Michigan	3,775	1,766	113.7%	1,762	424	1,893	1,245	71	57	49	40
Ohio	2,958	2,594	14.0%	805	672	2,129	1,902	NM	NM	NM	NM
Wisconsin	1,923	1,156	66.3%	1,692	1,047	194	83	NM	15	NM	11
West North Central	3,442	2,308	49.1%	2,835	1,849	513	392	NM	36	55	30
Iowa	525	330	58.8%	498	317	NM	NM	NM	NM	NM	NM
Kansas	353	217	63.0%	327	202	0	0	0	0	NM	NM
Minnesota	1,374	844	62.8%	1,088	685	259	142	NM	NM	NM	NM
Missouri	800	667	20.0%	536	399	254	250	10	17	NM	NM
Nebraska	141	88	59.6%	139	88	0	0	NM	NM	NM	0
North Dakota	87	44	98.1%	85	42	0	0	0	0	NM	NM
South Dakota	161	117	37.2%	161	117	0	0	0	0	0	0
South Atlantic	34,868	30,129	15.7%	27,740	24,063	6,715	5,697	69	59	344	309
Delaware	941	719	30.9%	NM	NM	842	625	0	0	89	88
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	16,397	15,074	8.8%	14,948	14,118	1,320	828	NM	NM	122	124
Georgia	5,534	4,978	11.2%	4,231	3,121	1,267	1,813	0	0	36	44
Maryland	1,077	553	94.8%	0	0	1,017	501	52	NM	NM	NM
North Carolina	3,928	3,393	15.8%	3,286	2,923	619	454	1	1	22	16
South Carolina	1,759	1,613	9.1%	1,457	1,450	294	160	NM	NM	NM	NM
Virginia	5,133	3,605	42.4%	3,776	2,437	1,327	1,137	NM	NM	30	30
West Virginia	92	187	-50.9%	33	7	30	180	0	0	29	0
East South Central	13,382	10,952	22.2%	8,306	6,358	4,889	4,416	NM	NM	171	162
Alabama	6,037	5,267	14.6%	1,546	1,365	4,407	3,815	0	0	85	86
Kentucky	909	600	51.4%	772	490	115	85	0	0	NM	NM
Mississippi	5,167	4,253	21.5%	4,763	3,702	366	515	NM	NM	36	34
Tennessee	1,270	833	52.5%	1,224	802	NM	NM	NM	NM	30	17
West South Central	37,135	37,326	-0.5%	11,991	11,825	19,113	19,765	101	91	5,930	5,645
Arkansas	2,233	1,659	34.6%	830	532	1,381	1,103	NM	NM	22	24
Louisiana	6,099	6,205	-1.7%	3,563	3,667	244	351	NM	17	2,276	2,171
Oklahoma	3,845	3,653	5.3%	2,613	2,179	1,216	1,457	NM	NM	NM	NM
Texas	24,957	25,810	-3.3%	4,985	5,447	16,272	16,854	80	72	3,620	3,437
Mountain	11,757	11,998	-2.0%	8,273	8,400	3,333	3,455	32	31	120	112
Arizona	4,867	5,196	-6.3%	2,469	2,713	2,387	2,472	11	11	0	0
Colorado	1,389	1,195	16.3%	1,186	972	202	221	0	0	NM	NM
Idaho	487	469	4.0%	299	311	185	155	0	0	NM	NM
Montana	118	78	50.1%	105	71	NM	NM	0	0	0	0
Nevada	2,905	3,091	-6.0%	2,730	2,915	152	152	5	NM	19	18
New Mexico	1,052	1,041	1.1%	670	661	371	369	9	9	NM	NM
Utah	859	871	-1.4%	793	751	NM	76	7	7	37	37
Wyoming	79	57	37.7%	NM	NM	NM	NM	0	0	NM	50
Pacific Contiguous	15,121	15,680	-3.6%	6,031	5,851	7,957	8,685	155	150	978	995
California	11,445	12,576	-9.0%	3,893	3,939	6,451	7,514	144	141	957	982
Oregon	2,036	1,664	22.3%	1,130	704	882	945	NM	NM	16	8
Washington	1,639	1,440	13.8%	1,008	1,208	624	226	NM	NM	5	5
Pacific Noncontiguous	234	227	2.9%	226	220	0	0	NM	NM	NM	NM
Alaska	234	227	2.9%	226	220	0	0	NM	NM	NM	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	155,866	139,493	11.7%	73,426	63,431	73,538	67,602	791	732	8,111	7,727

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.B. Utility Scale Facility Net Generation from Natural Gas

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	38,442	36,241	6.1%	236	303	36,650	34,445	664	672	891	821
Connecticut	12,181	11,206	8.7%	2	1	11,606	10,622	263	271	310	313
Maine	2,850	1,852	53.9%	0	0	2,381	1,441	NM	NM	453	394
Massachusetts	15,903	14,378	9.9%	201	281	15,154	13,661	340	343	108	93
New Hampshire	3,120	4,098	-23.9%	33	20	3,057	4,047	NM	NM	NM	NM
Rhode Island	4,487	4,704	-4.6%	0	0	4,453	4,674	NM	30	0	0
Vermont	0	1	-61.4%	0	1	0	0	0	0	0	0
Middle Atlantic	116,255	101,685	14.3%	9,006	8,232	105,146	91,434	799	743	1,304	1,275
New Jersey	30,695	24,050	27.6%	NM	NM	30,224	23,584	135	131	261	271
New York	40,182	38,336	4.8%	8,918	8,159	30,520	29,519	549	511	195	146
Pennsylvania	45,378	39,299	15.5%	NM	NM	44,402	38,331	115	102	848	858
East North Central	80,402	59,791	34.5%	35,832	25,648	42,180	31,974	1,097	1,027	1,293	1,143
Illinois	12,394	6,929	78.9%	1,340	422	10,456	5,867	282	339	315	301
Indiana	13,642	10,995	24.1%	10,818	8,902	2,334	1,605	130	104	360	384
Michigan	21,978	13,484	63.0%	7,574	3,218	13,543	9,552	468	402	393	311
Ohio	19,966	19,352	3.2%	4,897	4,790	14,930	14,444	97	73	41	44
Wisconsin	12,423	9,032	37.5%	11,203	8,316	917	505	119	108	184	102
West North Central	17,991	12,493	44.0%	14,784	10,496	2,564	1,589	276	208	367	201
Iowa	2,598	1,790	45.2%	2,419	1,676	NM	NM	80	54	98	60
Kansas	1,590	1,123	41.6%	1,446	1,058	0	0	0	0	145	66
Minnesota	7,366	4,901	50.3%	5,957	4,201	1,201	550	120	98	89	52
Missouri	4,567	3,405	34.1%	3,126	2,308	1,363	1,039	75	56	NM	NM
Nebraska	588	392	50.0%	573	389	0	0	NM	NM	NM	NM
North Dakota	418	249	68.1%	399	230	0	0	0	0	NM	NM
South Dakota	865	634	36.4%	865	634	0	0	0	0	0	0
South Atlantic	223,982	205,302	9.1%	180,552	167,079	40,556	35,548	436	369	2,438	2,306
Delaware	5,385	4,704	14.5%	NM	NM	4,682	3,990	0	0	657	681
District of Columbia	44	46	-5.4%	0	0	0	0	44	46	0	0
Florida	109,615	104,346	5.0%	99,489	98,106	9,156	5,283	40	NM	929	935
Georgia	37,576	33,871	10.9%	27,852	22,254	9,446	11,299	0	0	279	318
Maryland	4,304	3,044	41.4%	0	0	3,916	2,719	328	287	60	38
North Carolina	27,673	24,871	11.3%	24,054	21,926	3,468	2,846	8	4	143	95
South Carolina	10,506	10,351	1.5%	8,598	9,267	1,849	1,063	NM	NM	47	17
Virginia	28,122	23,227	21.1%	20,404	15,392	7,476	7,609	NM	NM	237	222
West Virginia	758	841	-10.0%	109	102	563	739	0	0	85	NM
East South Central	87,819	78,741	11.5%	54,756	45,610	31,653	31,791	105	99	1,304	1,241
Alabama	39,139	37,719	3.8%	11,533	10,051	26,901	26,974	0	0	706	693
Kentucky	5,856	3,480	68.3%	5,271	2,864	429	443	0	0	156	173
Mississippi	35,087	31,332	12.0%	30,491	26,693	4,318	4,369	NM	NM	263	256
Tennessee	7,737	6,211	24.6%	7,462	6,002	NM	NM	90	85	180	118
West South Central	245,412	240,832	1.9%	78,944	72,008	120,968	126,628	688	604	44,812	41,592
Arkansas	12,483	11,545	8.1%	5,244	3,106	7,033	8,202	NM	NM	204	236
Louisiana	46,508	43,237	7.6%	25,063	24,985	3,859	2,162	123	124	17,463	15,966
Oklahoma	25,689	23,436	9.6%	17,408	14,863	8,157	8,465	NM	NM	100	101
Texas	160,731	162,614	-1.2%	31,228	29,055	101,918	107,800	538	471	27,046	25,289
Mountain	70,505	62,013	13.7%	52,879	43,968	16,469	16,929	223	235	933	881
Arizona	24,759	21,474	15.3%	14,560	11,247	10,122	10,149	77	78	0	0
Colorado	9,460	7,045	34.3%	7,990	5,430	1,459	1,596	0	NM	NM	NM
Idaho	2,376	2,325	2.2%	1,453	1,384	873	911	0	0	51	30
Montana	629	473	32.8%	566	431	NM	NM	0	0	0	0
Nevada	19,634	18,548	5.9%	18,340	17,247	1,095	1,110	36	37	164	153
New Mexico	7,005	6,397	9.5%	4,286	3,566	2,626	2,744	62	63	NM	25
Utah	6,152	5,318	15.7%	5,601	4,633	230	368	48	49	273	268
Wyoming	489	434	12.7%	NM	NM	NM	NM	0	0	404	395
Pacific Contiguous	81,262	90,494	-10.2%	31,027	34,043	41,911	48,042	1,103	1,107	7,221	7,302
California	64,175	73,697	-12.9%	21,319	24,073	34,764	41,365	1,027	1,040	7,065	7,219
Oregon	9,510	9,579	-0.7%	4,355	3,841	4,998	5,634	NM	55	101	49
Washington	7,576	7,218	5.0%	5,353	6,129	2,149	1,043	NM	NM	56	35
Pacific Noncontiguous	1,746	2,008	-13.1%	1,692	1,955	0	0	NM	NM	NM	51
Alaska	1,746	2,008	-13.1%	1,692	1,955	0	0	NM	NM	NM	51
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	963,815	889,601	8.3%	459,708	409,343	438,098	418,381	5,397	5,066	60,612	56,811

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

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

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

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

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

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

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

Census Division and State	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	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 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	61	53	14.8%	0	0	0	0	0	0	61	53
New Jersey	NM	16	NM	0	0	0	0	0	0	NM	16
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	47	37	26.6%	0	0	0	0	0	0	47	37
East North Central	414	479	-13.5%	18	21	159	181	0	0	237	277
Illinois	NM	33	NM	0	0	0	0	0	0	NM	33
Indiana	187	223	-15.9%	NM	NM	0	0	0	0	182	220
Michigan	113	132	-14.5%	12	18	100	113	0	0	0	0
Ohio	87	91	-5.1%	0	0	59	67	0	0	NM	24
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	35	27	27.0%	0	0	0	0	0	0	35	27
Delaware	32	24	35.0%	0	0	0	0	0	0	32	24
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	1	-4.1%	0	0	0	0	0	0	1	1
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	2	3	-29.0%	0	0	0	0	0	0	2	3
East South Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Alabama	NM	NM	NM	0	0	0	0	0	0	NM	NM
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	15.3%	0	0	0	0	0	0	1	1
West South Central	399	422	-5.5%	0	0	129	111	0	0	270	312
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	158	196	-19.4%	0	0	0	0	0	0	158	196
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	241	226	6.5%	0	0	129	111	0	0	112	115
Mountain	NM	36	NM	0	0	0	1	0	0	NM	35
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	64.9%	0	0	0	0	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	35	NM	0	0	0	0	0	0	NM	35
Pacific Contiguous	149	182	-18.6%	0	0	32	35	0	0	116	148
California	116	148	-21.3%	0	0	0	0	0	0	116	148
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	32	35	-7.1%	0	0	32	35	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	1,096	1,216	-9.9%	18	21	321	327	0	0	757	867

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.

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

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

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 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	480	407	18.0%	0	0	0	0	0	0	480	407
New Jersey	119	114	4.0%	0	0	0	0	0	0	119	114
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	362	293	23.4%	0	0	0	0	0	0	362	293
East North Central	3,363	3,399	-1.1%	98	169	1,507	1,375	0	0	1,758	1,855
Illinois	243	233	4.2%	0	0	4	1	0	0	239	232
Indiana	1,361	1,477	-7.9%	NM	NM	0	0	0	0	1,336	1,459
Michigan	1,080	1,047	3.1%	73	150	1,006	897	0	0	0	0
Ohio	679	641	6.0%	0	0	496	477	0	0	183	164
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	NM	31	NM	0	0	0	0	0	0	NM	31
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	31	NM	0	0	0	0	0	0	NM	31
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	212	152	39.2%	0	0	0	0	0	0	212	152
Delaware	193	129	50.1%	0	0	0	0	0	0	193	129
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3	3	11.0%	0	0	0	0	0	0	3	3
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	15	20	-25.5%	0	0	0	0	0	0	15	20
East South Central	34	54	-38.4%	0	0	0	0	0	0	34	54
Alabama	24	47	-49.0%	0	0	0	0	0	0	24	47
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	10	8	24.5%	0	0	0	0	0	0	10	8
West South Central	3,230	3,274	-1.3%	0	0	856	790	0	0	2,374	2,484
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,500	1,632	-8.1%	0	0	0	0	0	0	1,500	1,632
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	1,730	1,642	5.4%	0	0	856	790	0	0	874	852
Mountain	269	294	-8.5%	0	0	7	15	0	0	262	279
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	-44.4%	0	0	6	11	0	0	0	0
Nevada	1	4	-80.0%	0	0	1	4	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	262	279	-6.1%	0	0	0	0	0	0	262	279
Pacific Contiguous	1,304	1,327	-1.7%	0	0	270	254	0	0	1,034	1,073
California	1,034	1,073	-3.6%	0	0	0	0	0	0	1,034	1,073
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	270	254	6.5%	0	0	270	254	0	0	0	0
Pacific Noncontiguous	42	36	16.5%	0	0	0	0	0	0	42	36
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	42	36	16.5%	0	0	0	0	0	0	42	36
U.S. Total	8,964	8,975	-0.1%	98	169	2,640	2,434	0	0	6,226	6,372

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	2,789	2,917	-4.4%	0	0	2,789	2,917	0	0	0	0
Connecticut	1,466	1,548	-5.3%	0	0	1,466	1,548	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	397	442	-10.2%	0	0	397	442	0	0	0	0
New Hampshire	926	926	0.0%	0	0	926	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	13,770	14,077	-2.2%	0	0	13,770	14,077	0	0	0	0
New Jersey	2,713	2,923	-7.2%	0	0	2,713	2,923	0	0	0	0
New York	3,761	3,927	-4.2%	0	0	3,761	3,927	0	0	0	0
Pennsylvania	7,296	7,227	1.0%	0	0	7,296	7,227	0	0	0	0
East North Central	13,902	13,867	0.2%	2,267	2,362	11,635	11,506	0	0	0	0
Illinois	8,603	8,429	2.1%	0	0	8,603	8,429	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,851	2,940	-3.0%	2,267	2,362	584	578	0	0	0	0
Ohio	1,568	1,611	-2.7%	0	0	1,568	1,611	0	0	0	0
Wisconsin	880	887	-0.8%	0	0	880	887	0	0	0	0
West North Central	4,392	4,379	0.3%	3,965	3,935	427	444	0	0	0	0
Iowa	427	444	-3.9%	0	0	427	444	0	0	0	0
Kansas	885	887	-0.3%	885	887	0	0	0	0	0	0
Minnesota	1,268	1,269	-0.1%	1,268	1,269	0	0	0	0	0	0
Missouri	893	839	6.5%	893	839	0	0	0	0	0	0
Nebraska	919	940	-2.3%	919	940	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	17,372	18,151	-4.3%	16,103	16,869	1,269	1,282	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,971	2,614	-24.6%	1,971	2,614	0	0	0	0	0	0
Georgia	3,027	3,000	0.9%	3,027	3,000	0	0	0	0	0	0
Maryland	1,269	1,282	-1.0%	0	0	1,269	1,282	0	0	0	0
North Carolina	3,797	3,738	1.6%	3,797	3,738	0	0	0	0	0	0
South Carolina	4,739	4,848	-2.2%	4,739	4,848	0	0	0	0	0	0
Virginia	2,569	2,669	-3.7%	2,569	2,669	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	7,208	6,978	3.3%	7,208	6,978	0	0	0	0	0	0
Alabama	3,611	3,697	-2.3%	3,611	3,697	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	1,046	1,004	4.1%	1,046	1,004	0	0	0	0	0	0
Tennessee	2,551	2,277	12.0%	2,551	2,277	0	0	0	0	0	0
West South Central	6,847	6,615	0.5%	2,938	2,908	3,709	3,707	0	0	0	0
Arkansas	1,360	1,329	2.3%	1,360	1,329	0	0	0	0	0	0
Louisiana	1,579	1,579	0.0%	1,579	1,579	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,709	3,707	0.1%	0	0	3,709	3,707	0	0	0	0
Mountain	2,939	2,929	0.3%	2,939	2,929	0	0	0	0	0	0
Arizona	2,939	2,929	0.3%	2,939	2,929	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	2,508	2,503	0.2%	2,508	2,503	0	0	0	0	0	0
California	1,686	1,666	1.2%	1,686	1,666	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	823	837	-1.7%	823	837	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	71,526	72,415	-1.2%	37,927	38,482	33,599	33,933	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 August 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	21,353	22,406	-4.7%	0	0	21,353	22,406	0	0	0	0
Connecticut	10,485	12,119	-13.5%	0	0	10,485	12,119	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	3,763	3,019	24.6%	0	0	3,763	3,019	0	0	0	0
New Hampshire	7,105	7,268	-2.2%	0	0	7,105	7,268	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	101,921	106,174	-4.0%	0	0	101,921	106,174	0	0	0	0
New Jersey	19,581	22,480	-12.9%	0	0	19,581	22,480	0	0	0	0
New York	27,086	29,603	-8.5%	0	0	27,086	29,603	0	0	0	0
Pennsylvania	55,254	54,090	2.2%	0	0	55,254	54,090	0	0	0	0
East North Central	104,996	103,837	1.1%	17,489	16,309	87,507	87,527	0	0	0	0
Illinois	65,382	64,854	0.8%	0	0	65,382	64,854	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	22,184	20,987	5.7%	17,489	16,309	4,696	4,678	0	0	0	0
Ohio	10,795	11,004	-1.9%	0	0	10,795	11,004	0	0	0	0
Wisconsin	6,635	6,992	-5.1%	0	0	6,635	6,992	0	0	0	0
West North Central	33,074	29,919	10.5%	29,673	26,448	3,402	3,471	0	0	0	0
Iowa	3,402	3,471	-2.0%	0	0	3,402	3,471	0	0	0	0
Kansas	7,069	5,071	39.4%	7,069	5,071	0	0	0	0	0	0
Minnesota	9,363	7,985	17.3%	9,363	7,985	0	0	0	0	0	0
Missouri	5,868	6,850	-14.3%	5,868	6,850	0	0	0	0	0	0
Nebraska	7,373	6,542	12.7%	7,373	6,542	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	138,812	135,960	2.1%	129,172	126,373	9,639	9,588	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	19,991	19,627	1.9%	19,991	19,627	0	0	0	0	0	0
Georgia	22,432	22,836	-1.8%	22,432	22,836	0	0	0	0	0	0
Maryland	9,639	9,588	0.5%	0	0	9,639	9,588	0	0	0	0
North Carolina	28,540	27,879	2.4%	28,540	27,879	0	0	0	0	0	0
South Carolina	37,808	36,768	2.8%	37,808	36,768	0	0	0	0	0	0
Virginia	20,402	19,262	5.9%	20,402	19,262	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	51,269	52,993	-3.3%	51,269	52,993	0	0	0	0	0	0
Alabama	27,290	27,623	-1.2%	27,290	27,623	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	5,701	7,702	-26.0%	5,701	7,702	0	0	0	0	0	0
Tennessee	18,278	17,669	3.4%	18,278	17,669	0	0	0	0	0	0
West South Central	49,976	48,902	2.2%	21,608	20,838	28,368	28,064	0	0	0	0
Arkansas	10,508	9,912	6.0%	10,508	9,912	0	0	0	0	0	0
Louisiana	11,100	10,926	1.6%	11,100	10,926	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	28,368	28,064	1.1%	0	0	28,368	28,064	0	0	0	0
Mountain	22,031	22,117	-0.4%	22,031	22,117	0	0	0	0	0	0
Arizona	22,031	22,117	-0.4%	22,031	22,117	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	18,869	17,934	5.2%	18,869	17,934	0	0	0	0	0	0
California	12,357	13,113	-5.8%	12,357	13,113	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	6,512	4,820	35.1%	6,512	4,820	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	542,300	540,243	0.4%	290,110	283,012	252,190	257,230	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, August 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	463	567	-18.4%	56	65	386	472	NM	NM	NM	NM
Connecticut	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Maine	231	289	-19.9%	0	0	212	260	0	0	NM	NM
Massachusetts	50	NM	NM	NM	NM	35	NM	NM	NM	NM	NM
New Hampshire	61	83	-26.6%	NM	NM	49	66	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	88	99	-10.4%	NM	NM	61	NM	0	0	0	0
Middle Atlantic	2,348	2,581	-9.0%	1,925	2,086	418	490	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,235	2,458	-9.1%	1,919	2,079	311	373	NM	NM	NM	NM
Pennsylvania	111	122	-8.7%	NM	NM	105	115	0	0	0	0
East North Central	359	363	-1.2%	311	308	NM	NM	NM	NM	NM	NM
Illinois	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
Indiana	43	37	16.7%	43	37	0	0	0	0	0	0
Michigan	98	105	-6.4%	90	97	NM	NM	0	0	NM	NM
Ohio	53	49	8.3%	35	27	NM	NM	0	0	0	0
Wisconsin	155	161	-3.3%	140	144	NM	NM	0	0	NM	NM
West North Central	925	991	-6.7%	908	976	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	88	151	-41.7%	88	151	0	0	0	0	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	191	194	-1.2%	191	194	0	0	0	0	0	0
South Dakota	476	473	0.7%	476	473	0	0	0	0	0	0
South Atlantic	965	894	8.0%	844	780	81	84	NM	NM	38	29
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	228	221	3.2%	225	218	NM	NM	0	0	NM	NM
Maryland	46	56	-16.7%	0	0	46	56	0	0	0	0
North Carolina	337	301	11.8%	331	295	NM	NM	NM	NM	NM	NM
South Carolina	153	174	-11.8%	147	167	NM	NM	NM	NM	0	0
Virginia	92	54	71.0%	87	48	NM	NM	0	0	NM	NM
West Virginia	94	71	32.2%	NM	NM	19	11	0	0	36	25
East South Central	1,504	1,646	-8.6%	1,504	1,645	NM	NM	0	0	0	0
Alabama	454	604	-24.9%	454	604	0	0	0	0	0	0
Kentucky	367	282	30.2%	366	281	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	684	760	-10.1%	684	760	0	0	0	0	0	0
West South Central	523	791	-33.8%	424	677	99	114	0	0	0	0
Arkansas	239	450	-46.9%	236	448	NM	NM	0	0	0	0
Louisiana	94	109	-14.1%	0	0	94	109	0	0	0	0
Oklahoma	137	201	-32.1%	137	201	0	0	0	0	0	0
Texas	54	NM	NM	52	NM	NM	NM	0	0	0	0
Mountain	2,368	2,263	4.7%	2,263	2,157	105	106	NM	NM	0	0
Arizona	650	615	5.7%	650	615	0	0	0	0	0	0
Colorado	119	112	6.0%	104	97	NM	NM	NM	NM	0	0
Idaho	742	648	14.4%	665	571	77	77	0	0	0	0
Montana	552	551	0.2%	542	541	NM	NM	0	0	0	0
Nevada	131	163	-20.1%	128	161	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	120	117	2.3%	119	117	NM	NM	0	0	0	0
Pacific Contiguous	9,834	9,217	6.7%	9,647	9,118	185	98	NM	NM	0	0
California	2,832	1,696	67.0%	2,683	1,631	147	64	NM	NM	0	0
Oregon	1,730	1,808	-4.3%	1,711	1,790	NM	NM	0	0	0	0
Washington	5,272	5,713	-7.7%	5,253	5,697	NM	NM	0	0	0	0
Pacific Noncontiguous	127	121	5.5%	121	112	3	5	0	0	NM	NM
Alaska	120	110	8.6%	120	110	0	0	0	0	0	0
Hawaii	NM	NM	NM	NM	NM	3	5	0	0	NM	NM
U.S. Total	19,417	19,434	-0.1%	18,003	17,924	1,328	1,426	NM	NM	81	81

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	5,063	5,211	-2.8%	700	662	4,097	4,263	NM	NM	262	282
Connecticut	311	303	2.9%	NM	NM	286	279	0	0	0	0
Maine	2,320	2,476	-6.3%	0	0	2,063	2,198	0	0	257	278
Massachusetts	638	616	3.6%	157	134	472	474	NM	NM	NM	NM
New Hampshire	917	992	-7.6%	225	226	692	766	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	873	822	6.3%	294	278	580	543	0	0	0	0
Middle Atlantic	20,789	19,662	5.7%	15,830	14,621	4,910	4,991	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	18,934	17,734	6.8%	15,773	14,565	3,112	3,119	NM	NM	NM	NM
Pennsylvania	1,831	1,908	-4.0%	58	NM	1,774	1,852	0	0	0	0
East North Central	3,468	3,315	4.6%	2,981	2,830	362	360	NM	NM	122	124
Illinois	91	89	2.3%	NM	NM	55	55	NM	NM	0	0
Indiana	287	225	27.7%	287	225	0	0	0	0	0	0
Michigan	1,071	1,061	1.0%	975	971	77	70	0	0	NM	NM
Ohio	384	311	23.3%	220	142	164	169	0	0	0	0
Wisconsin	1,635	1,630	0.3%	1,466	1,459	66	66	0	0	104	105
West North Central	7,029	7,813	-10.0%	6,861	7,661	143	138	0	0	25	NM
Iowa	568	580	-2.1%	564	576	NM	NM	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	386	366	5.6%	236	231	125	121	0	0	25	NM
Missouri	1,040	1,154	-9.8%	1,040	1,154	0	0	0	0	0	0
Nebraska	801	783	2.2%	801	783	0	0	0	0	0	0
North Dakota	1,369	1,563	-12.4%	1,369	1,563	0	0	0	0	0	0
South Dakota	2,850	3,354	-15.0%	2,850	3,354	0	0	0	0	0	0
South Atlantic	11,416	9,218	23.8%	9,500	7,185	1,488	1,596	NM	NM	415	428
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	150	147	2.2%	150	147	0	0	0	0	0	0
Georgia	2,367	1,897	24.8%	2,343	1,873	NM	NM	0	0	NM	NM
Maryland	1,113	1,233	-9.8%	0	0	1,113	1,233	0	0	0	0
North Carolina	3,748	2,829	32.5%	3,691	2,777	NM	NM	NM	NM	NM	NM
South Carolina	2,024	1,615	25.3%	1,962	1,561	59	NM	NM	NM	0	0
Virginia	1,037	606	71.0%	981	554	NM	NM	0	0	NM	NM
West Virginia	977	891	9.6%	372	273	216	218	0	0	389	400
East South Central	14,672	15,140	-3.1%	14,667	15,135	NM	NM	0	0	0	0
Alabama	6,469	6,551	-1.3%	6,469	6,551	0	0	0	0	0	0
Kentucky	2,537	2,357	7.7%	2,532	2,351	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	5,666	6,233	-9.1%	5,666	6,233	0	0	0	0	0	0
West South Central	6,135	5,464	12.3%	5,285	4,687	850	777	0	0	0	0
Arkansas	2,739	2,384	14.9%	2,713	2,369	NM	NM	0	0	0	0
Louisiana	799	739	8.2%	0	0	799	739	0	0	0	0
Oklahoma	1,785	1,815	-1.6%	1,785	1,815	0	0	0	0	0	0
Texas	811	526	54.2%	787	503	NM	NM	0	0	0	0
Mountain	22,410	21,902	2.3%	21,483	21,052	921	845	NM	NM	0	0
Arizona	5,086	4,589	10.8%	5,086	4,589	0	0	0	0	0	0
Colorado	1,301	1,080	20.5%	1,148	932	147	143	NM	NM	0	0
Idaho	6,697	6,191	8.2%	6,064	5,627	633	564	0	0	0	0
Montana	6,654	7,172	-7.2%	6,551	7,069	103	103	0	0	0	0
Nevada	1,278	1,679	-23.9%	1,252	1,655	NM	NM	0	0	0	0
New Mexico	99	88	12.9%	99	88	0	0	0	0	0	0
Utah	458	432	6.1%	454	427	NM	NM	0	0	0	0
Wyoming	836	671	24.5%	830	665	NM	NM	0	0	0	0
Pacific Contiguous	99,832	86,880	14.9%	98,351	86,095	1,464	779	NM	NM	0	0
California	20,870	10,069	107.3%	19,827	9,679	1,026	385	NM	NM	0	0
Oregon	24,194	22,728	6.4%	23,987	22,531	207	197	0	0	0	0
Washington	54,769	54,082	1.3%	54,537	53,885	232	198	0	0	0	0
Pacific Noncontiguous	1,031	1,085	-5.0%	981	1,031	15	20	0	0	NM	NM
Alaska	965	1,015	-4.9%	965	1,015	0	0	0	0	0	0
Hawaii	65	70	-6.2%	NM	NM	15	20	0	0	NM	NM
U.S. Total	191,845	175,690	9.2%	176,640	160,959	14,256	13,775	NM	NM	905	928

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells. NM = Not meaningful due to large relative standard error or excessive percentage change.

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

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	901	865	4.1%	71	72	716	668	14	16	99	109
Connecticut	79	72	9.0%	NM	0	78	72	0	0	0	0
Maine	361	343	5.1%	0	0	254	225	8	9	99	109
Massachusetts	195	193	1.1%	NM	NM	187	185	NM	NM	NM	NM
New Hampshire	181	166	9.0%	30	25	148	137	NM	4	0	0
Rhode Island	22	22	3.0%	0	0	22	21	NM	NM	0	0
Vermont	63	68	-8.7%	35	41	27	28	NM	NM	0	0
Middle Atlantic	979	953	2.7%	12	10	849	805	55	65	63	72
New Jersey	178	174	2.7%	12	10	134	131	32	32	NM	NM
New York	435	430	1.0%	0	0	404	388	18	20	13	22
Pennsylvania	366	349	4.9%	0	0	311	285	5	13	50	51
East North Central	1,317	1,576	-16.5%	192	228	979	1,175	20	23	126	151
Illinois	387	501	-22.7%	NM	NM	386	500	NM	NM	0	0
Indiana	213	222	-4.1%	33	28	174	187	NM	NM	5	5
Michigan	431	477	-9.5%	89	100	269	296	14	18	59	62
Ohio	115	125	-8.0%	NM	NM	88	92	NM	NM	25	29
Wisconsin	170	252	-32.5%	67	95	63	101	NM	NM	37	53
West North Central	3,327	3,325	0.0%	1,049	1,018	2,208	2,251	17	7	53	51
Iowa	813	1,026	-20.8%	507	578	297	438	NM	NM	6	7
Kansas	890	703	26.7%	52	59	838	643	0	0	0	0
Minnesota	627	751	-16.5%	142	153	432	551	7	NM	46	44
Missouri	69	56	21.6%	5	5	57	52	7	0	NM	NM
Nebraska	217	220	-1.7%	20	21	195	198	NM	NM	0	0
North Dakota	520	387	34.5%	263	154	257	233	0	0	NM	0
South Dakota	192	183	5.1%	60	47	132	135	0	0	0	0
South Atlantic	2,214	1,993	11.1%	248	249	1,090	835	44	45	832	864
Delaware	13	14	-5.0%	NM	NM	11	11	NM	NM	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	390	435	-10.2%	24	52	209	215	NM	NM	155	166
Georgia	454	393	15.6%	6	NM	138	74	NM	3	309	314
Maryland	86	69	24.5%	NM	NM	76	65	NM	NM	6	0
North Carolina	621	416	49.1%	34	NM	467	292	19	16	101	107
South Carolina	208	210	-0.9%	39	42	29	32	0	0	140	136
Virginia	385	413	-6.8%	142	151	103	102	20	21	120	139
West Virginia	58	45	29.3%	0	0	58	45	0	0	0	0
East South Central	562	567	-1.0%	11	8	46	45	NM	NM	504	514
Alabama	291	299	-2.7%	NM	NM	25	24	0	0	264	275
Kentucky	42	32	32.3%	10	8	NM	NM	0	0	32	24
Mississippi	126	131	-3.4%	0	0	NM	NM	0	0	125	130
Tennessee	102	106	-3.0%	0	0	19	19	NM	NM	83	86
West South Central	5,580	4,799	16.3%	120	117	5,007	4,229	NM	NM	448	447
Arkansas	122	117	4.3%	0	0	12	7	NM	NM	110	109
Louisiana	236	237	-0.3%	0	0	8	8	0	0	229	230
Oklahoma	1,261	988	27.7%	93	87	1,143	875	0	0	25	26
Texas	3,961	3,457	14.6%	27	30	3,844	3,340	NM	NM	84	82
Mountain	2,681	2,321	15.5%	232	214	2,407	2,067	13	15	29	25
Arizona	385	425	-9.4%	52	55	330	367	2	2	0	0
Colorado	642	600	7.0%	7	10	632	587	NM	NM	NM	NM
Idaho	202	218	-7.4%	NM	12	174	183	0	0	27	23
Montana	113	118	-4.4%	15	12	97	104	0	0	NM	NM
Nevada	583	461	26.5%	NM	0	571	451	8	10	NM	NM
New Mexico	277	194	43.2%	26	16	251	178	NM	NM	0	0
Utah	261	102	154.3%	22	23	239	80	0	0	0	0
Wyoming	219	203	7.7%	105	86	113	117	0	0	0	0
Pacific Contiguous	6,662	6,543	1.8%	708	792	5,664	5,433	87	93	203	225
California	5,190	4,816	7.8%	241	230	4,807	4,428	84	90	58	68
Oregon	727	841	-13.6%	137	155	555	641	NM	NM	33	43
Washington	745	886	-15.9%	330	407	302	364	NM	NM	112	114
Pacific Noncontiguous	145	129	12.4%	17	26	95	75	24	21	8	6
Alaska	13	14	-13.1%	NM	NM	NM	NM	NM	4	NM	NM
Hawaii	132	114	15.6%	12	19	93	72	20	17	7	6
U.S. Total	24,367	23,071	5.6%	2,660	2,733	19,062	17,583	280	291	2,365	2,464

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities	August 2016 YTD	August 2015 YTD	Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
				August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD		
										Percentage Change	
New England	7,160	7,001	2.3%	595	593	5,690	5,338	113	135	760	935
Connecticut	604	539	12.0%	NM	0	601	530	0	9	0	0
Maine	2,984	2,905	2.7%	0	0	2,168	1,901	58	71	758	933
Massachusetts	1,468	1,430	2.7%	52	51	1,387	1,354	27	22	NM	NM
New Hampshire	1,380	1,387	-0.5%	200	210	1,158	1,150	22	27	0	0
Rhode Island	162	169	-3.9%	0	0	157	164	NM	NM	0	0
Vermont	561	571	-1.7%	340	331	219	238	NM	NM	0	0
Middle Atlantic	9,361	9,370	-0.1%	82	68	8,254	8,256	458	497	566	549
New Jersey	1,300	1,231	5.6%	82	68	978	927	238	235	NM	NM
New York	4,218	4,263	-1.0%	0	0	3,911	3,949	139	156	168	158
Pennsylvania	3,843	3,876	-0.9%	0	0	3,365	3,380	81	106	397	390
East North Central	18,587	17,880	4.0%	2,278	2,292	15,085	14,270	144	170	1,080	1,148
Illinois	7,131	6,680	6.8%	12	9	7,117	6,669	NM	NM	0	0
Indiana	3,655	3,063	19.3%	236	207	3,366	2,798	12	14	40	43
Michigan	4,486	4,686	-4.3%	1,182	1,218	2,760	2,872	93	134	451	463
Ohio	1,360	1,327	2.4%	20	24	1,125	1,064	NM	3	210	237
Wisconsin	1,955	2,123	-7.9%	828	835	718	868	30	17	378	404
West North Central	39,253	33,932	15.7%	13,156	10,807	25,615	22,632	105	81	377	412
Iowa	12,413	11,152	11.3%	7,772	6,475	4,569	4,595	22	21	50	60
Kansas	9,184	6,806	35.0%	579	561	8,601	6,243	0	0	5	NM
Minnesota	7,651	7,401	3.4%	1,748	1,474	5,557	5,555	37	29	310	344
Missouri	817	700	16.8%	32	31	747	646	36	21	NM	NM
Nebraska	2,316	2,054	12.7%	181	177	2,124	1,867	11	10	0	0
North Dakota	4,915	4,219	16.5%	2,226	1,647	2,680	2,568	0	0	10	NM
South Dakota	1,957	1,601	22.2%	618	441	1,338	1,159	0	0	0	0
South Atlantic	16,669	15,305	8.9%	1,690	1,442	8,102	6,850	339	332	6,539	6,680
Delaware	98	98	-0.2%	6	6	78	76	NM	NM	9	11
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,044	3,441	-11.6%	294	253	1,474	1,857	23	19	1,253	1,313
Georgia	3,336	3,024	10.3%	52	10	862	520	6	21	2,416	2,474
Maryland	815	720	13.2%	8	8	715	620	23	21	69	72
North Carolina	4,200	2,791	50.5%	159	6	3,182	1,883	138	114	720	787
South Carolina	1,549	1,538	0.7%	287	297	214	240	0	0	1,049	1,002
Virginia	2,747	2,789	-1.5%	885	864	696	750	144	152	1,023	1,022
West Virginia	880	904	-2.6%	0	0	880	904	0	0	0	0
East South Central	4,323	4,321	0.1%	73	61	344	335	NM	3	3,903	3,922
Alabama	2,215	2,234	-0.8%	NM	NM	178	167	0	0	2,031	2,065
Kentucky	313	313	0.3%	66	59	3	3	0	0	244	250
Mississippi	1,004	974	3.2%	0	0	8	8	0	0	996	965
Tennessee	790	801	-1.3%	0	0	154	156	NM	3	633	642
West South Central	55,394	41,226	34.4%	1,108	1,213	50,827	36,455	54	49	3,405	3,509
Arkansas	943	1,004	-6.0%	0	0	98	65	NM	3	843	935
Louisiana	1,796	1,815	-1.1%	0	0	60	58	0	0	1,736	1,757
Oklahoma	12,677	8,845	43.3%	905	929	11,573	7,713	0	0	199	203
Texas	39,978	29,562	35.2%	204	284	39,097	28,619	51	46	626	613
Mountain	24,545	19,639	25.0%	2,339	2,010	21,845	17,288	95	87	267	253
Arizona	3,211	2,925	9.8%	388	387	2,805	2,521	17	17	0	0
Colorado	6,494	5,096	27.4%	67	90	6,406	4,987	18	16	NM	NM
Idaho	2,195	1,985	10.6%	79	94	1,862	1,650	0	0	254	241
Montana	1,373	1,249	9.9%	148	138	1,217	1,103	0	0	8	8
Nevada	4,332	3,640	19.0%	25	0	4,248	3,586	57	52	NM	NM
New Mexico	2,884	1,665	73.3%	181	108	2,701	1,555	NM	NM	0	0
Utah	1,308	803	63.0%	168	169	1,140	634	0	0	0	0
Wyoming	2,747	2,277	20.7%	1,282	1,024	1,465	1,253	0	0	0	0
Pacific Contiguous	48,505	44,147	9.9%	5,842	5,278	40,381	36,430	695	745	1,587	1,694
California	35,822	32,801	9.2%	1,601	1,650	33,099	29,969	670	718	453	464
Oregon	5,956	5,463	9.0%	1,032	932	4,633	4,135	13	15	280	381
Washington	6,726	5,883	14.3%	3,210	2,696	2,650	2,327	12	11	854	849
Pacific Noncontiguous	999	948	5.4%	137	128	620	592	167	164	75	64
Alaska	143	138	3.4%	70	68	33	32	34	36	6	NM
Hawaii	856	810	5.8%	67	60	587	560	134	129	69	61
U.S. Total	224,796	193,767	16.0%	27,301	23,893	176,764	148,446	2,173	2,262	18,558	19,165

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

Census Division and State	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	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	-53	-52	2.6%	0	0	-53	-52	0	0	0	0
Connecticut	0	0	-42.2%	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-53	-52	2.4%	0	0	-53	-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	-148	-120	23.6%	-86	-59	-62	-61	0	0	0	0
New Jersey	-26	-18	44.7%	-26	-18	0	0	0	0	0	0
New York	-60	-41	48.7%	-60	-41	0	0	0	0	0	0
Pennsylvania	-62	-61	0.8%	0	0	-62	-61	0	0	0	0
East North Central	-112	-82	36.4%	-112	-82	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	-112	-82	36.4%	-112	-82	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	1	36	-96.9%	1	36	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	1	36	-96.9%	1	36	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	-428	-394	8.5%	-428	-394	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	-139	-125	10.8%	-139	-125	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	-118	-112	5.1%	-118	-112	0	0	0	0	0	0
Virginia	-171	-157	9.1%	-171	-157	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-82	-91	-9.5%	-82	-91	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	-82	-91	-9.5%	-82	-91	0	0	0	0	0	0
West South Central	-8	-8	-2.3%	-8	-8	0	0	0	0	0	0
Arkansas	3	3	0.3%	3	3	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-11	-11	-1.7%	-11	-11	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-18	4	-528.9%	-18	4	0	0	0	0	0	0
Arizona	16	23	-31.2%	16	23	0	0	0	0	0	0
Colorado	-34	-19	76.3%	-34	-19	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	-53	82	-164.9%	-53	82	0	0	0	0	0	0
California	-54	76	-170.5%	-54	76	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	6	-90.4%	1	6	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	-902	-626	44.1%	-787	-513	-115	-113	0	0	0	0

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	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	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	-340	-332	2.4%	0	0	-340	-332	0	0	0	0
Connecticut	2	-5	-131.5%	0	0	2	-5	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-341	-327	4.4%	0	0	-341	-327	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	-801	-777	3.0%	-448	-404	-353	-373	0	0	0	0
New Jersey	-143	-127	13.2%	-143	-127	0	0	0	0	0	0
New York	-305	-277	9.8%	-305	-277	0	0	0	0	0	0
Pennsylvania	-353	-373	-5.4%	0	0	-353	-373	0	0	0	0
East North Central	-523	-334	56.5%	-523	-334	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	-523	-334	56.5%	-523	-334	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	196	282	-30.6%	196	282	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	196	282	-30.6%	196	282	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	-1,958	-2,026	-3.4%	-1,958	-2,026	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	-431	-615	-30.0%	-431	-615	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	-697	-654	6.5%	-697	-654	0	0	0	0	0	0
Virginia	-830	-756	9.7%	-830	-756	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-463	-382	21.2%	-463	-382	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	-463	-382	21.2%	-463	-382	0	0	0	0	0	0
West South Central	-17	-21	-19.2%	-17	-21	0	0	0	0	0	0
Arkansas	34	27	25.9%	34	27	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-50	-48	6.0%	-50	-48	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-141	-123	14.5%	-141	-123	0	0	0	0	0	0
Arizona	72	66	10.4%	72	66	0	0	0	0	0	0
Colorado	-213	-188	13.1%	-213	-188	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	1	173	-99.4%	1	173	0	0	0	0	0	0
California	4	140	-97.4%	4	140	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-3	33	-108.2%	-3	33	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-4,045	-3,540	14.3%	-3,353	-2,835	-693	-705	0	0	0	0

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	167	173	-3.2%	0	0	149	152	7	9	11	12
Connecticut	51	51	0.0%	0	0	51	51	0	0	0	0
Maine	36	37	-3.2%	0	0	18	16	7	9	11	12
Massachusetts	76	80	-5.3%	0	0	76	80	0	0	0	0
New Hampshire	5	5	-2.0%	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	-8.2%	0	0	168	175	30	42	0	0
New Jersey	46	47	-2.2%	0	0	34	35	12	12	0	0
New York	80	84	-5.7%	0	0	61	64	18	21	0	0
Pennsylvania	73	85	-14.1%	0	0	73	76	0	9	0	0
East North Central	94	113	-16.3%	2	4	11	14	16	20	66	74
Illinois	22	26	-16.5%	0	0	0	0	0	0	23	26
Indiana	37	43	-13.2%	0	0	0	0	NM	NM	35	41
Michigan	27	36	-25.6%	0	NM	12	14	14	18	1	2
Ohio	1	0	369.1%	0	0	0	0	0	0	1	0
Wisconsin	8	8	-0.4%	2	3	0	0	0	0	6	NM
West North Central	39	47	-17.4%	18	25	13	13	NM	NM	5	NM
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	NM	NM	NM	0	0	0	0	0	0	NM	NM
Minnesota	35	38	-6.2%	15	16	13	13	NM	NM	5	NM
Missouri	1	7	-92.3%	1	7	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	3	NM	NM	3	NM	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	402	405	-0.7%	0	21	218	196	18	20	166	169
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	285	284	0.5%	0	21	132	111	0	0	153	152
Georgia	8	14	-44.5%	0	0	0	0	0	0	8	14
Maryland	29	29	0.5%	0	0	29	29	0	NM	0	0
North Carolina	31	31	-1.3%	0	0	31	31	0	0	0	0
South Carolina	6	4	43.4%	0	0	NM	NM	0	0	5	4
Virginia	43	43	0.4%	0	0	25	23	18	20	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	4	7	-47.3%	2	5	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	2	5	-63.4%	2	5	0	0	0	0	0	0
Mississippi	NM	NM	NM	0	0	0	0	0	0	NM	NM
Tennessee	2	2	-16.9%	0	0	0	0	0	0	2	2
West South Central	123	111	10.7%	0	0	4	NM	0	0	119	110
Arkansas	0	1	-82.8%	0	0	0	0	0	0	0	1
Louisiana	39	39	-0.9%	0	0	0	0	0	0	39	39
Oklahoma	4	NM	NM	0	0	2	0	0	0	NM	NM
Texas	79	69	14.4%	0	0	NM	NM	0	0	78	68
Mountain	44	47	-5.8%	NM	NM	27	28	0	0	16	18
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	0	0	0	NM	NM
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	26	28	-6.4%	0	0	26	28	0	0	0	0
Nevada	NM	NM	NM	NM	NM	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	14	14	-3.4%	0	0	NM	NM	0	0	13	14
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	85	97	-13.0%	0	0	28	30	0	0	57	68
California	74	85	-12.5%	0	0	17	19	0	0	57	66
Oregon	4	4	-1.8%	0	0	4	4	0	0	0	0
Washington	6	8	-23.7%	0	0	6	6	0	0	0	2
Pacific Noncontiguous	20	17	16.7%	0	0	1	1	19	16	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	20	17	16.7%	0	0	1	1	19	16	0	0
U.S. Total	1,177	1,234	-4.6%	22	56	619	610	94	110	442	458

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	1,275	1,254	1.6%	0	0	1,135	1,088	60	70	80	97
Connecticut	399	379	5.2%	0	0	399	372	0	7	0	0
Maine	260	261	-0.4%	0	0	120	102	60	62	80	97
Massachusetts	580	579	0.1%	0	0	580	579	0	0	0	0
New Hampshire	36	35	3.2%	0	0	36	35	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	1,562	1,583	-1.3%	0	0	1,286	1,275	276	308	0	0
New Jersey	358	339	5.6%	0	0	264	243	94	96	0	0
New York	597	621	-3.9%	0	0	456	478	141	143	0	0
Pennsylvania	607	623	-2.6%	0	0	567	555	41	69	0	0
East North Central	722	782	-7.7%	19	37	105	113	105	138	493	494
Illinois	179	182	-1.5%	0	0	1	0	0	0	178	182
Indiana	267	271	-1.5%	0	0	0	0	12	12	255	258
Michigan	209	261	-19.6%	7	17	98	104	93	126	12	14
Ohio	13	14	-3.2%	0	0	6	9	0	0	8	5
Wisconsin	53	55	-2.9%	12	19	0	0	0	0	41	35
West North Central	309	333	-7.4%	148	176	95	93	24	23	41	41
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	NM	NM	NM	0	0	0	0	0	0	NM	NM
Minnesota	278	271	2.5%	120	116	95	93	24	23	39	39
Missouri	8	40	-80.3%	8	40	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	20	20	1.6%	20	20	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,007	2,834	6.1%	108	44	1,524	1,490	136	138	1,239	1,162
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	2,149	2,003	7.3%	108	44	909	876	0	0	1,132	1,083
Georgia	79	47	67.7%	0	0	0	0	0	0	79	47
Maryland	217	208	4.0%	0	0	217	208	NM	NM	0	0
North Carolina	233	229	1.8%	0	0	233	229	0	0	0	0
South Carolina	32	36	-12.3%	0	0	NM	NM	0	0	27	32
Virginia	298	311	-4.0%	0	0	162	173	136	137	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	50	46	9.0%	35	29	0	0	0	0	15	17
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	35	29	19.7%	35	29	0	0	0	0	0	0
Mississippi	NM	NM	NM	0	0	0	0	0	0	NM	NM
Tennessee	12	14	-10.3%	0	0	0	0	0	0	12	14
West South Central	805	795	1.3%	0	0	27	10	0	0	778	785
Arkansas	3	9	-63.4%	0	0	0	0	0	0	3	9
Louisiana	258	274	-5.6%	0	0	0	0	0	0	258	274
Oklahoma	30	11	158.1%	0	0	16	0	0	0	14	11
Texas	514	501	2.6%	0	0	11	10	0	0	503	491
Mountain	375	286	31.1%	10	10	230	211	0	0	135	65
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	27	29	-5.5%	0	0	NM	NM	0	0	25	26
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	225	206	9.7%	0	0	225	206	0	0	0	0
Nevada	9	10	-8.3%	9	10	0	0	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	113	41	173.8%	0	0	NM	NM	0	0	110	39
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	641	707	-9.3%	NM	NM	199	217	0	0	441	489
California	549	589	-6.8%	NM	NM	119	139	0	0	430	450
Oregon	31	31	2.9%	0	0	31	31	0	0	0	0
Washington	61	87	-30.3%	0	0	49	48	0	0	12	39
Pacific Noncontiguous	136	129	5.3%	NM	NM	7	4	128	124	0	0
Alaska	NM	NM	NM	NM	NM	0	0	0	0	0	0
Hawaii	136	128	6.4%	0	0	7	4	128	124	0	0
U.S. Total	8,883	8,750	1.5%	321	298	4,610	4,502	729	801	3,223	3,149

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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, August 2016 and 2015 (Thousand Megawatthours)

Census Division and State	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	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	173	102	69.8%	16	14	155	86	NM	NM	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	111	54	104.8%	0	0	111	54	0	0	0	0
Massachusetts	13	12	7.9%	NM	NM	9	7	NM	NM	NM	NM
New Hampshire	27	18	49.4%	0	0	27	18	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	NM	NM	0	0
Vermont	19	16	19.0%	13	10	6	6	0	0	0	0
Middle Atlantic	365	318	14.9%	0	0	365	317	0	0	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	214	195	9.5%	0	0	213	195	0	0	NM	NM
Pennsylvania	150	121	24.0%	0	0	150	121	0	0	0	0
East North Central	783	997	-21.5%	125	161	655	833	NM	NM	NM	NM
Illinois	333	446	-25.5%	NM	NM	332	445	NM	NM	0	0
Indiana	148	165	-10.1%	0	0	148	164	NM	NM	0	0
Michigan	202	246	-18.0%	87	99	115	147	0	0	0	0
Ohio	42	46	-9.1%	NM	NM	38	43	NM	0	NM	NM
Wisconsin	59	94	-37.7%	36	60	22	33	0	0	NM	NM
West North Central	3,114	3,125	-0.4%	999	970	2,113	2,153	NM	NM	0	0
Iowa	792	1,004	-21.1%	505	576	287	428	NM	NM	0	0
Kansas	884	697	26.9%	52	59	832	637	0	0	0	0
Minnesota	466	593	-21.3%	107	117	358	474	NM	NM	0	0
Missouri	52	47	11.0%	0	0	52	47	0	0	0	0
Nebraska	208	215	-3.5%	13	17	194	198	0	0	0	0
North Dakota	520	387	34.4%	263	154	257	233	0	0	0	0
South Dakota	192	183	5.1%	60	47	132	135	0	0	0	0
South Atlantic	78	57	37.6%	0	0	78	56	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	21	12	67.0%	0	0	21	12	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	57	44	29.7%	0	0	57	44	0	0	0	0
East South Central	1	1	-6.5%	0	0	1	1	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	-6.5%	0	0	1	1	0	0	0	0
West South Central	4,948	4,194	18.0%	114	111	4,831	4,080	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	1,234	961	28.5%	93	87	1,142	874	0	0	0	0
Texas	3,713	3,233	14.9%	22	24	3,689	3,206	NM	NM	0	0
Mountain	1,367	1,275	7.2%	127	119	1,238	1,154	NM	NM	NM	NM
Arizona	21	30	-27.8%	0	0	21	30	0	0	0	0
Colorado	586	559	4.8%	7	10	577	548	NM	NM	NM	NM
Idaho	142	167	-14.9%	0	11	142	156	0	0	0	0
Montana	112	117	-4.4%	15	12	97	104	0	0	0	0
Nevada	26	23	10.7%	0	0	26	23	0	0	0	0
New Mexico	195	125	56.0%	0	0	194	125	NM	NM	0	0
Utah	67	52	29.6%	0	0	67	52	0	0	0	0
Wyoming	219	203	7.7%	105	86	113	117	0	0	0	0
Pacific Contiguous	2,665	2,952	-9.7%	514	599	2,150	2,352	NM	NM	NM	NM
California	1,458	1,500	-2.8%	100	87	1,356	1,412	NM	NM	NM	NM
Oregon	633	736	-14.0%	130	148	504	588	0	0	0	0
Washington	574	716	-19.8%	284	364	290	352	0	0	0	0
Pacific Noncontiguous	70	53	33.1%	NM	NM	65	46	0	0	0	0
Alaska	8	10	-19.8%	NM	NM	NM	NM	0	0	0	0
Hawaii	62	43	45.4%	0	0	62	43	0	0	0	0
U.S. Total	13,565	13,073	3.8%	1,901	1,981	11,651	11,079	NM	NM	NM	NM

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	1,673	1,413	18.4%	167	178	1,479	1,211	25	23	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	1,025	769	33.3%	0	0	1,025	769	0	0	0	0
Massachusetts	143	139	3.4%	39	38	83	81	19	18	NM	NM
New Hampshire	295	277	6.1%	0	0	295	277	0	0	0	0
Rhode Island	10	9	10.5%	0	0	NM	NM	NM	NM	0	0
Vermont	200	219	-8.8%	128	140	72	79	0	0	0	0
Middle Atlantic	4,654	4,732	-1.6%	0	0	4,652	4,730	0	0	NM	NM
New Jersey	15	14	4.3%	0	0	15	14	0	0	0	0
New York	2,507	2,564	-2.2%	0	0	2,504	2,562	0	0	NM	NM
Pennsylvania	2,133	2,154	-1.0%	0	0	2,133	2,154	0	0	0	0
East North Central	14,461	13,620	6.2%	1,788	1,883	12,626	11,707	NM	NM	40	25
Illinois	6,716	6,257	7.3%	9	9	6,704	6,246	NM	NM	0	0
Indiana	3,184	2,651	20.1%	0	0	3,183	2,650	NM	NM	0	0
Michigan	2,825	2,959	-4.5%	1,172	1,216	1,653	1,743	0	0	0	0
Ohio	797	732	8.9%	10	9	750	702	NM	0	35	21
Wisconsin	938	1,019	-8.0%	598	649	335	366	0	0	NM	NM
West North Central	37,697	32,387	16.4%	12,788	10,471	24,888	21,895	21	20	0	0
Iowa	12,247	10,977	11.6%	7,755	6,458	4,489	4,517	NM	NM	0	0
Kansas	9,135	6,760	35.1%	579	561	8,556	6,199	0	0	0	0
Minnesota	6,491	6,206	4.6%	1,483	1,218	4,989	4,969	18	18	0	0
Missouri	714	616	16.0%	0	0	714	616	0	0	0	0
Nebraska	2,248	2,013	11.6%	127	147	2,121	1,867	0	0	0	0
North Dakota	4,906	4,215	16.4%	2,226	1,647	2,680	2,568	0	0	0	0
South Dakota	1,957	1,601	22.2%	618	441	1,338	1,159	0	0	0	0
South Atlantic	1,200	1,168	2.8%	0	0	1,197	1,165	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	320	264	21.0%	0	0	320	264	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	877	901	-2.6%	0	0	877	901	0	0	0	0
East South Central	26	28	-5.9%	0	0	26	28	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	26	28	-5.9%	0	0	26	28	0	0	0	0
West South Central	50,817	36,725	38.4%	1,086	1,113	49,707	35,591	25	21	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	12,463	8,631	44.4%	901	929	11,562	7,703	0	0	0	0
Texas	38,354	28,094	36.5%	185	184	38,144	27,888	25	21	0	0
Mountain	15,303	11,928	28.3%	1,570	1,340	13,723	10,580	NM	NM	NM	NM
Arizona	351	273	28.6%	0	0	351	273	0	0	0	0
Colorado	6,077	4,809	26.4%	67	90	6,002	4,713	NM	NM	NM	NM
Idaho	1,726	1,534	12.5%	73	88	1,653	1,446	0	0	0	0
Montana	1,365	1,241	10.0%	148	138	1,217	1,103	0	0	0	0
Nevada	214	200	7.0%	0	0	214	200	0	0	0	0
New Mexico	2,323	1,182	96.5%	0	0	2,320	1,180	NM	NM	0	0
Utah	500	413	21.2%	0	0	500	413	0	0	0	0
Wyoming	2,747	2,277	20.7%	1,282	1,024	1,465	1,253	0	0	0	0
Pacific Contiguous	21,040	18,412	14.3%	4,415	3,872	16,617	14,533	NM	NM	NM	NM
California	10,384	9,165	13.3%	530	573	9,846	8,586	NM	NM	NM	NM
Oregon	5,183	4,593	12.9%	971	884	4,212	3,709	0	0	0	0
Washington	5,473	4,654	17.6%	2,914	2,416	2,559	2,238	0	0	0	0
Pacific Noncontiguous	503	479	5.0%	70	68	433	411	0	0	0	0
Alaska	104	100	3.4%	70	68	33	32	0	0	0	0
Hawaii	400	379	5.4%	0	0	400	379	0	0	0	0
U.S. Total	147,374	120,892	21.9%	21,884	18,925	125,348	101,851	91	80	52	36

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

Census Division and State	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	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	636	679	-6.4%	53	56	473	501	11	13	99	109
Connecticut	76	70	8.7%	0	0	76	70	0	0	0	0
Maine	250	289	-13.6%	0	0	143	171	8	9	99	109
Massachusetts	103	108	-4.7%	0	0	103	108	NM	0	0	0
New Hampshire	154	148	4.0%	30	25	120	119	NM	4	0	0
Rhode Island	18	19	-6.3%	0	0	18	19	0	0	0	0
Vermont	36	45	-21.5%	22	30	NM	15	NM	NM	0	0
Middle Atlantic	492	529	-6.9%	0	0	395	412	36	46	62	71
New Jersey	84	86	-2.1%	0	0	70	72	14	14	0	0
New York	201	224	-10.4%	0	0	171	183	17	20	13	21
Pennsylvania	207	219	-5.3%	0	0	154	157	NM	12	49	49
East North Central	484	540	-10.4%	57	63	286	308	19	22	122	148
Illinois	48	48	0.1%	0	0	48	48	0	0	0	0
Indiana	34	34	-1.9%	27	26	NM	NM	NM	NM	5	5
Michigan	227	230	-1.0%	0	NM	154	149	14	18	59	62
Ohio	64	71	-9.6%	NM	NM	43	43	0	0	21	27
Wisconsin	111	157	-29.4%	31	35	41	68	NM	NM	37	53
West North Central	207	197	5.3%	49	47	91	94	15	5	53	51
Iowa	21	22	-3.8%	2	3	10	10	NM	NM	6	7
Kansas	6	6	1.2%	0	0	6	6	0	0	0	0
Minnesota	160	158	1.1%	35	36	73	77	5	NM	46	44
Missouri	13	7	96.4%	4	5	2	NM	6	0	NM	NM
Nebraska	8	5	57.7%	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	1,582	1,670	-5.3%	188	224	532	547	30	34	832	864
Delaware	6	7	-4.3%	0	0	5	5	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	364	405	-10.2%	7	31	199	206	NM	NM	155	166
Georgia	369	378	-2.4%	0	0	60	62	0	NM	309	314
Maryland	46	40	15.9%	0	0	38	38	NM	NM	6	0
North Carolina	205	218	-6.0%	0	0	98	103	6	7	101	107
South Carolina	207	209	-0.9%	39	42	28	32	0	0	140	136
Virginia	384	413	-7.0%	142	151	103	102	20	21	120	139
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	548	555	-1.2%	9	8	34	33	0	0	504	514
Alabama	291	299	-2.7%	NM	NM	25	24	0	0	264	275
Kentucky	40	32	26.2%	8	8	NM	NM	0	0	32	24
Mississippi	126	131	-3.4%	0	0	NM	NM	0	0	125	130
Tennessee	90	93	-2.8%	0	0	7	7	0	0	83	86
West South Central	567	557	1.8%	6	6	110	101	NM	3	448	447
Arkansas	119	117	1.8%	0	0	9	7	NM	NM	110	109
Louisiana	236	237	-0.3%	0	0	8	8	0	0	229	230
Oklahoma	27	27	-2.0%	0	0	1	NM	0	0	25	26
Texas	185	176	5.3%	6	6	92	85	NM	NM	84	82
Mountain	87	86	0.7%	NM	3	58	60	0	0	28	24
Arizona	19	21	-8.2%	0	NM	19	19	0	0	0	0
Colorado	NM	11	NM	0	0	NM	11	0	0	0	0
Idaho	46	43	6.8%	NM	NM	18	19	0	0	27	23
Montana	NM	NM	NM	0	0	0	0	0	0	NM	NM
Nevada	2	NM	NM	0	0	2	NM	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	6	6	0.4%	0	0	6	6	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	799	883	-9.5%	66	64	458	518	73	78	202	223
California	550	622	-11.6%	14	14	409	466	70	75	57	66
Oregon	79	91	-13.8%	6	6	38	41	NM	NM	33	43
Washington	171	170	0.4%	46	43	12	12	NM	NM	112	114
Pacific Noncontiguous	38	41	-6.2%	6	13	0	0	24	21	8	6
Alaska	NM	4	NM	0	0	0	0	NM	4	NM	NM
Hawaii	34	36	-7.3%	6	13	0	0	20	17	7	6
U.S. Total	5,439	5,736	-5.2%	435	484	2,437	2,574	210	222	2,358	2,457

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

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

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	4,871	5,026	-3.1%	412	402	3,619	3,583	82	108	758	933
Connecticut	585	523	11.9%	0	0	585	514	0	9	0	0
Maine	1,959	2,136	-8.3%	0	0	1,143	1,133	58	71	758	933
Massachusetts	790	802	-1.4%	0	0	790	801	NM	NM	0	0
New Hampshire	1,086	1,110	-2.1%	200	210	864	873	22	27	0	0
Rhode Island	140	150	-6.6%	0	0	140	150	0	0	0	0
Vermont	311	305	1.9%	212	191	97	112	NM	NM	0	0
Middle Atlantic	3,906	3,928	-0.6%	0	0	3,024	3,020	328	369	554	538
New Jersey	658	638	3.1%	0	0	543	524	115	114	0	0
New York	1,599	1,627	-1.7%	0	0	1,297	1,317	137	154	165	156
Pennsylvania	1,649	1,662	-0.8%	0	0	1,183	1,178	76	101	389	383
East North Central	3,794	4,009	-5.4%	436	392	2,187	2,334	135	164	1,037	1,119
Illinois	368	378	-2.6%	0	0	368	378	0	0	0	0
Indiana	260	261	-0.5%	204	201	4	4	11	13	40	43
Michigan	1,651	1,725	-4.3%	NM	NM	1,106	1,129	93	134	451	463
Ohio	500	542	-7.7%	NM	6	327	322	0	0	172	213
Wisconsin	1,016	1,103	-7.9%	231	185	381	501	30	17	374	400
West North Central	1,525	1,526	0.0%	367	336	699	717	83	61	377	412
Iowa	166	175	-5.3%	17	18	79	78	20	19	50	60
Kansas	48	44	8.4%	0	0	43	42	0	0	5	NM
Minnesota	1,154	1,193	-3.2%	265	256	561	583	18	11	310	344
Missouri	82	69	20.2%	31	31	15	15	34	21	NM	NM
Nebraska	65	41	59.1%	54	31	0	0	11	10	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	11,944	12,501	-4.5%	1,339	1,278	3,833	4,285	234	256	6,539	6,680
Delaware	50	51	-2.8%	0	0	40	40	0	0	9	11
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,856	3,254	-12.2%	171	117	1,411	1,806	21	18	1,253	1,313
Georgia	2,855	2,923	-2.3%	0	0	436	432	3	18	2,416	2,474
Maryland	369	360	2.5%	0	0	281	272	19	17	69	72
North Carolina	1,522	1,585	-4.0%	0	0	756	747	46	51	720	787
South Carolina	1,545	1,534	0.7%	287	297	210	236	0	0	1,049	1,002
Virginia	2,743	2,789	-1.6%	881	864	696	750	144	152	1,023	1,022
West Virginia	3	3	-2.5%	0	0	3	3	0	0	0	0
East South Central	4,216	4,217	0.0%	67	61	246	234	0	0	3,903	3,922
Alabama	2,215	2,234	-0.8%	NM	NM	178	167	0	0	2,031	2,065
Kentucky	307	313	-1.7%	60	59	3	3	0	0	244	250
Mississippi	1,004	974	3.2%	0	0	8	8	0	0	996	965
Tennessee	689	697	-1.1%	0	0	56	55	0	0	633	642
West South Central	4,080	4,218	-3.3%	19	100	629	584	27	25	3,405	3,509
Arkansas	923	1,004	-8.0%	0	0	77	65	NM	3	843	935
Louisiana	1,796	1,815	-1.1%	0	0	60	58	0	0	1,736	1,757
Oklahoma	210	214	-1.7%	0	0	10	10	0	0	199	203
Texas	1,151	1,185	-2.9%	19	100	482	450	25	22	626	613
Mountain	712	709	0.4%	8	19	442	441	0	0	263	249
Arizona	144	156	-7.7%	NM	13	142	143	0	0	0	0
Colorado	89	87	1.7%	0	0	89	87	0	0	0	0
Idaho	398	385	3.4%	6	6	138	138	0	0	254	241
Montana	8	8	0.2%	0	0	0	0	0	0	8	8
Nevada	17	16	2.3%	0	0	17	16	0	0	0	0
New Mexico	8	9	-7.8%	0	0	8	9	0	0	0	0
Utah	48	47	1.7%	0	0	48	47	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	6,017	6,587	-8.7%	473	455	3,377	3,803	594	647	1,574	1,682
California	4,149	4,623	-10.2%	133	132	3,007	3,418	569	621	440	453
Oregon	616	736	-16.4%	44	43	279	297	13	15	280	381
Washington	1,252	1,228	1.9%	296	280	90	89	12	11	854	849
Pacific Noncontiguous	269	264	1.8%	26	36	0	0	167	164	75	64
Alaska	39	38	3.6%	0	0	0	0	34	36	6	NM
Hawaii	229	226	1.4%	26	36	0	0	134	129	69	61
U.S. Total	41,335	42,985	-3.8%	3,146	3,079	18,055	19,001	1,650	1,796	18,483	19,109

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 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, August 2016 and 2015 (Thousand Megawatthours)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 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	340	322	5.5%	22	23	318	299	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	8	8	-0.4%	0	0	8	8	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	285	272	4.7%	0	0	285	272	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	45	40	12.3%	22	23	24	18	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,063	1,080	-1.6%	72	70	991	1,010	0	0	0	0
California	1,053	1,070	-1.6%	71	70	982	1,000	0	0	0	0
Oregon	10	10	-1.1%	NM	0	9	10	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	25	25	-0.4%	0	0	25	25	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	25	25	-0.4%	0	0	25	25	0	0	0	0
U.S. Total	1,427	1,427	0.0%	94	93	1,334	1,334	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 1.16.B. Utility Scale Facility Net Generation from Geothermal

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 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	2,802	2,646	5.9%	168	169	2,633	2,477	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	65	66	-1.4%	0	0	65	66	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	2,366	2,239	5.7%	0	0	2,366	2,239	0	0	0	0
New Mexico	NM	9	NM	0	0	NM	9	0	0	0	0
Utah	362	332	9.1%	168	169	194	163	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	8,224	8,527	-3.6%	547	547	7,677	7,980	0	0	0	0
California	8,102	8,416	-3.7%	535	547	7,566	7,869	0	0	0	0
Oregon	122	111	9.9%	NM	0	111	111	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	155	152	2.1%	0	0	155	152	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	155	152	2.1%	0	0	155	152	0	0	0	0
U.S. Total	11,180	11,324	-1.3%	715	716	10,465	10,608	0	0	0	0

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

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, August 2016 and 2015 (Thousand Megawatt-hours)

Census Division and State	All Sectors										Electric Power Sector				Commercial Sector				Industrial Sector				Residential Sector		
	Estimated Net Generation From Utility Scale Facilities and Distributed Solar Photovoltaic Generation			Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Electric Utilities		Independent Power Producers		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			
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015		
New England	283	213	33.2%	92	84	192	129	NM	NM	88	81	192	129	NM	NM	102	80	9	6	0	0	9	6	81	43
Connecticut	NM	24	NM	NM	NM	35	22	NM	0	NM	NM	14	10	0	0	14	10	2	1	0	0	2	1	20	11
Maine	3	2	56.2%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Massachusetts	215	167	28.5%	79	73	136	94	NM	NM	76	70	NM	NM	NM	NM	80	66	7	4	0	0	7	4	49	24
New Hampshire	6	3	131.6%	0	0	6	3	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	4	2
Rhode Island	NM	3	NM	NM	NM	2	1	0	0	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	1	0
Vermont	17	13	24.0%	8	7	9	6	0	0	8	7	3	2	0	0	3	2	0	0	0	0	0	0	6	4
Middle Atlantic	429	348	23.4%	122	106	307	242	12	10	90	76	182	161	19	19	163	142	NM	NM	NM	NM	16	16	128	84
New Jersey	271	234	15.7%	93	86	178	148	12	10	63	58	132	121	18	18	114	103	NM	NM	NM	NM	9	8	55	37
New York	119	78	52.3%	20	11	99	67	0	0	20	11	NM	NM	NM	NM	36	28	1	1	0	0	1	1	62	38
Pennsylvania	40	36	10.7%	9	9	31	27	0	0	7	7	NM	NM	NM	NM	14	11	NM	NM	NM	NM	6	6	11	9
East North Central	75	60	24.3%	49	39	26	22	10	3	39	34	NM	NM	NM	NM	18	16	NM	NM	NM	NM	1	7	5	
Illinois	11	10	10.3%	7	7	4	3	NM	NM	6	7	3	2	0	0	3	2	0	0	0	0	0	0	NM	1
Indiana	33	25	32.9%	32	24	1	1	6	NM	25	22	1	1	0	0	1	1	NM	NM	0	0	0	0	NM	1
Michigan	NM	4	NM	NM	NM	5	4	NM	NM	0	0	3	3	0	0	3	3	NM	NM	0	0	0	0	NM	1
Ohio	21	18	13.1%	9	8	12	11	NM	NM	7	6	NM	NM	NM	NM	9	9	NM	NM	NM	NM	0	0	2	2
Wisconsin	NM	3	NM	NM	NM	4	3	0	0	NM	NM	2	2	0	0	2	2	NM	NM	0	0	0	0	NM	2
West North Central	34	26	30.5%	5	NM	29	23	1	0	NM	NM	NM	14	NM	0	16	14	1	0	0	0	0	1	0	12
Iowa	6	4	31.2%	0	0	6	4	0	0	0	0	4	3	0	0	4	3	0	0	0	0	0	0	0	2
Kansas	NM	1	NM	NM	NM	1	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Minnesota	NM	3	NM	NM	NM	4	3	0	0	NM	NM	2	2	0	0	2	2	0	0	0	0	0	0	0	2
Missouri	NM	18	NM	NM	NM	18	15	1	0	NM	NM	NM	9	NM	0	10	9	0	0	0	0	0	0	0	8
Nebraska	NM	0	NM	NM	0	0	0	0	0	NM	0	NM	0	0	0	NM	0	NM	0	0	0	0	0	0	0
North Dakota	0	0	3.4%	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	74.7%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	697	337	107.1%	548	252	149	85	53	10	480	231	96	59	14	11	82	49	5	3	0	0	5	3	62	33
Delaware	19	15	26.0%	6	7	12	8	NM	NM	5	6	NM	NM	NM	NM	7	5	0	0	0	0	0	0	5	2
District of Columbia	6	3	76.6%	0	0	6	3	0	0	0	0	4	2	0	0	4	2	0	0	0	0	0	0	0	2
Florida	43	29	44.9%	20	15	22	15	10	6	10	9	NM	NM	NM	NM	11	7	1	1	0	0	1	1	11	7
Georgia	NM	24	NM	85	14	NM	NM	6	NM	78	12	NM	NM	NM	NM	NM	NM	NM	NM	0	0	0	NM	NM	NM
Maryland	89	54	64.5%	19	17	69	37	NM	NM	18	15	NM	NM	NM	NM	30	18	4	1	0	0	4	1	36	17
North Carolina	432	207	108.6%	416	199	15	8	34	NM	369	188	24	15	13	9	12	6	0	0	0	0	0	0	4	2
South Carolina	NM	1	NM	NM	NM	3	1	0	0	NM	NM	1	0	0	0	1	0	0	0	0	0	0	0	3	1
Virginia	NM	3	NM	NM	0	4	3	NM	0	0	0	2	1	0	0	2	1	NM	NM	0	0	0	0	NM	3
West Virginia	1	0	35.2%	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	13.9%	13	11	9	8	2	0	10	11	NM	NM	NM	NM	9	8	0	0	0	0	0	0	1	0
Alabama	0	0	20.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kentucky	4	1	154.4%	2	0	2	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Mississippi	1	0	212.0%	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	17	17	-0.2%	11	11	7	6	0	0	10	11	NM	NM	NM	NM	6	6	0	0	0	0	0	0	0	0
West South Central	123	89	38.9%	66	49	57	39	0	0	66	49	NM	NM	NM	NM	15	11	0	0	0	0	0	0	42	28
Arkansas	NM	1	NM	NM	0	1	1	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Louisiana	19	15	23.9%	0	0	19	15	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	18	15
Oklahoma	1	1	90.3%	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Texas	99	72	37.7%	63	49	36	23	0	0	63	49	NM	NM	NM	NM	13	10	0	0	0	0	0	0	23	13
Mountain	1,072	743	44.2%	803	535	269	208	82	69	709	452	100	93	12	14	87	79	NM	NM	NM	NM	17	15	164	114
Arizona	452	409	10.5%	301	282	151	127	52	53	247	227	49	47	2	2	47	45	14	13	0	0	14	13	91	69
Colorado	91	69	30.7%	45	30	45	40	0	0	43	28	NM	NM	NM	NM	19	17	0	0	0	0	0	0	26	22
Idaho	7	1	836.7%	6	0	1	1	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Montana	1	1	33.6%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nevada	267	173	54.7%	229	152	38	20	NM	0	217	142	18	17	8	10	9	8	NM	NM	NM	NM	2	2	26	11
New Mexico	96	79	20.7%	80	67	15	13	26	16	54	51	7	6	0	0	7	6	0	0	0	0	0	0	8	6
Utah	158	11	NM	142	4	16	7	0	0	142	4	4	3	0	0	4	3	1	0	0	0	1	0	11	4
Wyoming	0	0	26.2%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM
Pacific Contiguous	2,755	2,001	37.6%	1,858	1,350	897	652	57	60	1,787	1,274	213	168	14	14	200	154	NM	NM	NM	NM	139	107	558	391
California	2,723	1,979	37.6%	1,853	1,346	871	633	56	59	1,782	1,272	205	162	14	14	192	147	NM	NM	NM	NM	138	106	541	379
Oregon	20	15	35.4%	5	3	15	11	NM	NM	5	NM	6	5	0	0	6	5	1	0	0	0	1	0	8	6
Washington	12	7	55.7%	0	0	12	7	0	0	0	0	2	1	0	0	2	1	0	NM	0	0	0	0	NM	10
Pacific Noncontiguous	81	71	15.4%	11	10	70	60	6	6</																

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

Census Division and State	All Sectors									Electric Power Sector				Commercial Sector						Industrial Sector				Residential Sector			
	Estimated Net Generation From Utility Scale Facilities and Distributed Solar Photovoltaic Generation			Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Electric Utilities		Independent Power Producers		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			
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	1,797	1,373	30.9%	615	562	1,182	811	17	14	592	544	1,182	811	671	530	6	4	664	526	49	35	0	0	49	35	468	250
Connecticut	244	152	61.2%	18	16	226	136	NM	0	16	16	91	63	0	0	0	0	91	63	11	7	0	0	11	7	124	66
Maine	21	13	59.8%	0	0	21	13	0	0	0	0	7	4	0	0	0	0	7	4	0	0	0	0	0	0	13	9
Massachusetts	1,358	1,089	24.7%	534	489	823	600	14	14	514	471	529	438	6	4	523	433	37	27	0	0	37	27	263	139		
New Hampshire	37	16	136.2%	0	0	37	16	0	0	0	0	11	5	0	0	11	5	1	1	0	0	1	1	1	25	10	
Rhode Island	27	19	41.9%	12	10	15	9	0	0	12	10	10	8	0	0	10	8	0	0	0	0	0	0	0	0	4	2
Vermont	111	85	30.3%	51	47	60	38	0	0	51	47	22	13	0	0	22	13	0	0	0	0	0	0	0	0	38	25
Middle Atlantic	2,882	2,341	23.1%	800	710	2,082	1,632	82	68	579	506	1,294	1,128	130	127	1,164	1,000	125	116	9	9	116	107	116	107	802	524
New Jersey	1,854	1,608	15.3%	627	578	1,227	1,030	82	68	420	388	948	855	123	121	825	734	64	58	NM	NM	63	57	339	238		
New York	750	483	55.3%	112	71	638	412	0	0	110	69	245	188	NM	NM	243	186	9	7	0	0	9	7	385	219		
Pennsylvania	278	250	11.2%	61	60	217	190	0	0	49	48	101	84	5	5	96	80	51	51	8	8	44	43	77	67		
East North Central	507	396	28.1%	332	251	175	145	53	17	273	229	124	110	NM	3	121	107	9	6	NM	NM	6	4	47	34		
Illinois	73	64	14.7%	47	45	26	19	NM	NM	45	44	18	14	0	0	18	14	0	0	0	0	0	0	0	0	8	5
Indiana	221	159	38.9%	211	150	10	9	32	0	179	144	4	5	0	0	4	5	0	0	0	0	0	0	0	0	6	4
Michigan	43	29	46.7%	10	NM	33	28	10	NM	0	0	23	20	0	0	23	20	1	0	0	0	1	0	0	0	9	7
Ohio	144	122	17.6%	83	54	81	69	9	9	48	40	65	58	NM	3	62	56	8	6	NM	NM	5	3	14	10		
Wisconsin	26	21	21.6%	NM	NM	25	20	0	0	NM	NM	14	12	0	0	14	12	1	0	0	0	0	0	0	0	10	7
West North Central	226	174	30.1%	31	19	195	154	1	0	29	19	111	91	NM	0	110	91	3	2	0	0	3	2	82	61		
Iowa	39	29	35.1%	0	0	39	29	0	0	0	0	26	19	0	0	26	19	1	1	0	0	1	1	12	10		
Kansas	9	5	82.1%	NM	NM	7	3	0	0	NM	NM	3	1	0	0	3	1	0	0	0	0	0	0	0	0	4	2
Minnesota	32	21	55.5%	6	NM	26	18	0	0	6	NM	12	10	0	0	12	10	2	1	0	0	2	1	12	7		
Missouri	140	118	19.2%	20	15	120	102	1	0	18	15	68	61	NM	0	67	61	1	1	0	0	1	1	1	53	41	
Nebraska	5	1	408.5%	NM	0	2	1	0	0	NM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
North Dakota	0	0	11.4%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	1	0	72.7%	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	4,483	2,122	111.3%	3,465	1,549	1,018	572	291	77	3,072	1,400	706	427	102	72	604	355	34	15	0	0	34	15	380	202		
Delaware	126	100	26.3%	45	44	81	56	6	6	38	37	54	40	NM	NM	52	39	3	3	0	0	3	3	3	26	15	
District of Columbia	37	23	57.1%	0	0	37	23	0	0	0	0	26	17	0	0	26	17	4	0	0	0	0	0	0	11	7	
Florida	297	204	45.3%	127	100	170	104	62	49	64	50	90	51	NM	NM	89	50	4	2	0	0	4	2	77	52		
Georgia	604	171	252.7%	481	101	123	70	52	10	426	89	120	68	NM	3	117	65	1	1	0	0	1	1	1	5	4	
Maryland	570	326	75.1%	126	95	445	231	8	8	114	84	220	131	4	4	216	128	24	7	0	0	24	7	204	96		
North Carolina	2,791	1,265	120.6%	2,678	1,205	113	60	159	6	2,426	1,137	178	109	92	63	86	46	2	1	0	0	2	1	25	12		
South Carolina	21	9	140.6%	4	4	16	5	0	0	4	4	4	1	0	0	4	1	0	0	0	0	0	0	0	13	3	
Virginia	34	20	69.3%	NM	0	30	20	NM	0	0	0	13	9	0	0	13	9	0	0	0	0	0	0	0	17	11	
West Virginia	4	3	33.5%	0	0	4	3	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	3	2	
East South Central	145	132	10.1%	80	76	64	56	6	0	72	73	63	56	NM	3	61	54	0	0	0	0	0	0	0	4	2	
Alabama	3	2	19.9%	0	0	3	2	0	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	0	0	0	
Kentucky	18	10	86.1%	6	0	12	10	6	0	0	0	9	8	0	0	9	8	0	0	0	0	0	0	0	3	2	
Mississippi	4	1	203.9%	0	0	4	1	0	0	0	0	3	1	0	0	3	1	0	0	0	0	0	0	0	0	0	
Tennessee	120	118	1.6%	74	76	46	43	0	0	72	73	48	45	NM	3	46	43	0	0	0	0	0	0	0	0	0	
West South Central	878	540	62.5%	497	283	381	257	4	0	491	281	108	76	NM	NM	106	74	0	0	0	0	0	0	0	275	183	
Arkansas	25	4	574.5%	20	0	5	4	0	0	20	0	2	2	0	0	2	2	0	0	0	0	0	0	0	3	2	
Louisiana	135	101	32.9%	0	0	135	101	0	0	0	0	9	4	0	0	9	4	0	0	0	0	0	0	0	126	97	
Oklahoma	8	2	222.8%	4	0	4	2	4	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	0	2	2	
Texas	710	433	64.2%	473	283	238	150	0	0	471	281	96	69	NM	NM	94	67	0	0	0	0	0	0	0	144	82	
Mountain	7,023	5,209	34.8%	5,061	3,744	1,962	1,465	593	482	4,379	3,179	757	672	87	81	669	591	137	117	NM	NM	135	115	1,157	760		
Arizona	3,381	2,899	16.6%	2,231	1,966	1,150	934	387	374	1,827	1,575	389	365	17	17	372	348	113	98	0	0	113	98	665	488		
Colorado	657	469	40.0%	328	200	328	269	0	0	316	188	156	137	13	12	143	125	2	2	0	0	2	2	184	143		
Idaho	12	4	194.4%	6	0	7	4	0	0	6	0	2	2	0	0	2	2	0	0	0	0	0	0	0	4	2	
Montana	8	6	33.6%	0	0	8	6	0	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	0	5	4	
Nevada	1,813	1,215	49.3%	1,554	1,103	259	111	25	0	1,469	1,049	124	98	57	52	67	46	18	13	NM	NM	16	12	177	54		
New Mexico	659	561	17.6%	545	464	115	96	181	108	364	357	54	50	0	0	54	50	1	1	0	0	1	1	61	46		
Utah	491	53	821.9%	398	11	93	43	0	0	398	11	29	18	0	0	29	18	4	3	0	0	4	3	60	22		
Wyoming	2	2	28.4%	0	0	2	2	0																			

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

Census Division and State	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	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 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	7	15	-56.0%	7	15	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	7	15	-56.0%	7	15	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	84	103	-18.6%	0	0	84	103	0	0	0	0
Arizona	43	91	-53.2%	0	0	43	91	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	41	11	260.7%	0	0	41	11	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	277	278	-0.2%	0	0	277	278	0	0	0	0
California	277	278	-0.2%	0	0	277	278	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	368	395	-7.1%	7	15	361	381	0	0	0	0

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
	Generation at Utility Scale Facilities			Electric Utilities		Independent Power Producers		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 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	60	87	-30.4%	60	87	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	60	87	-30.4%	60	87	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	667	612	9.0%	0	0	667	612	0	0	0	0
Arizona	485	530	-8.6%	0	0	485	530	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	182	82	123.6%	0	0	182	82	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	1,770	1,697	4.3%	0	0	1,770	1,697	0	0	0	0
California	1,770	1,697	4.3%	0	0	1,770	1,697	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	2,498	2,396	4.3%	60	87	2,437	2,309	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-August 2016 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	73,951	53,935	19,669	11	336
Year to Date					
2014	590,927	431,983	155,644	149	3,151
2015	522,498	386,670	132,877	117	2,834
2016	448,716	333,814	112,378	92	2,432
Rolling 12 Months Ending in August					
2015	785,205	578,922	201,801	170	4,312
2016	667,072	495,634	167,534	138	3,766

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-August 2016 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	1,178	90	149	41	898
Year to Date					
2014	12,341	680	1,297	621	9,743
2015	11,775	649	1,331	477	9,318
2016	10,098	658	1,165	387	7,887
Rolling 12 Months Ending in August					
2015	17,541	947	1,854	718	14,023
2016	16,046	1,243	1,767	607	12,428

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-August 2016 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	75,129	54,024	19,818	52	1,234
Year to Date					
2014	603,268	432,662	156,942	770	12,894
2015	534,273	387,318	134,208	595	12,153
2016	458,813	334,472	113,543	480	10,319
Rolling 12 Months Ending in August					
2015	802,746	579,868	203,655	888	18,335
2016	683,118	496,878	169,301	746	16,194

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

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

Values for 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-August 2016 (Thousand Barrels)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	2,194	1,650	481	NM	50
Year to Date					
2014	24,935	14,640	9,433	340	521
2015	22,874	13,949	8,015	347	563
2016	14,865	11,095	3,292	86	392
Rolling 12 Months Ending in August					
2015	29,470	18,961	9,271	458	780
2016	21,536	16,217	4,597	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.B. Petroleum Liquids: Consumption for Useful Thermal Output, by Sector, 2006-August 2016 (Thousand Barrels)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	246	1	96	NM	137
Year to Date					
2014	2,298	61	845	204	1,187
2015	2,179	59	845	149	1,126
2016	1,766	15	687	103	961
Rolling 12 Months Ending in August					
2015	2,980	62	1,170	160	1,588
2016	2,668	20	1,065	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-August 2016 (Thousand Barrels)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	2,440	1,650	577	NM	187
Year to Date					
2014	27,233	14,701	10,278	544	1,709
2015	25,053	14,008	8,860	496	1,689
2016	16,631	11,110	3,980	189	1,353
Rolling 12 Months Ending in August					
2015	32,450	19,023	10,441	618	2,369
2016	24,204	16,237	5,662	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 2.3.A. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2006-August 2016 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	428	337	62	0	29
Year to Date					
2014	3,098	2,418	422	1	258
2015	2,863	2,189	464	1	208
2016	3,042	2,447	386	1	207
Rolling 12 Months Ending in August					
2015	4,177	3,212	642	2	321
2016	4,266	3,377	593	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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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 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-August 2016 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	76	0	9	0	67
Year to Date					
2014	865	1	54	9	801
2015	968	5	73	9	880
2016	664	2	67	7	589
Rolling 12 Months Ending in August					
2015	1,386	7	109	16	1,253
2016	1,059	6	104	14	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 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-August 2016 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	504	337	71	0	96
Year to Date					
2014	3,963	2,419	475	10	1,058
2015	3,831	2,195	538	11	1,088
2016	3,706	2,449	453	8	796
Rolling 12 Months Ending in August					
2015	5,563	3,219	751	19	1,575
2016	5,325	3,382	697	16	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 Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases. See the Technical Notes for fuel conversion factors.

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

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

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

Table 2.4.A. Natural Gas: Consumption for Electricity Generation, by Sector, 2006-August 2016 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	1,197,948	577,627	556,314	6,776	57,231
Year to Date					
2014	5,695,210	2,623,203	2,610,792	48,126	413,088
2015	6,709,252	3,159,164	3,094,010	48,729	407,349
2016	7,292,480	3,556,541	3,261,801	48,142	425,996
Rolling 12 Months Ending in August					
2015	9,558,429	4,430,969	4,437,250	72,559	617,651
2016	10,631,574	5,130,418	4,791,894	72,960	636,301

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	82,837	912	26,870	5,282	49,773
Year to Date					
2014	578,553	3,033	195,455	31,572	348,492
2015	611,307	5,475	204,311	35,293	366,228
2016	631,315	6,856	202,492	39,152	382,815
Rolling 12 Months Ending in August					
2015	897,899	7,367	300,872	50,355	539,305
2016	939,967	9,906	303,606	57,321	569,133

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	1,280,785	578,539	583,184	12,058	107,003
Year to Date					
2014	6,273,763	2,626,237	2,806,248	79,699	761,580
2015	7,320,559	3,164,639	3,298,322	84,022	773,577
2016	7,923,795	3,563,397	3,464,293	87,293	808,812
Rolling 12 Months Ending in August					
2015	10,456,328	4,438,336	4,738,122	122,914	1,156,955
2016	11,571,540	5,140,324	5,095,501	130,281	1,205,435

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

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

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

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

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	28,180	2,699	23,151	1,922	408
Year to Date					
2014	197,445	17,436	157,998	18,828	3,184
2015	217,480	20,863	175,559	17,680	3,379
2016	215,218	20,229	174,617	16,869	3,503
Rolling 12 Months Ending in August					
2015	306,017	29,246	246,008	25,890	4,873
2016	324,192	30,478	262,135	26,230	5,349

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-August 2016 (Million Cubic Feet)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	172	0	94	42	36
Year to Date					
2014	1,225	142	415	446	222
2015	1,860	139	854	578	289
2016	2,574	18	1,298	693	565
Rolling 12 Months Ending in August					
2015	2,345	173	963	806	402
2016	3,711	88	1,820	1,032	771

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	28,353	2,699	23,245	1,964	444
Year to Date					
2014	198,670	17,578	158,412	19,274	3,406
2015	219,340	21,002	176,412	18,258	3,668
2016	217,792	20,247	175,915	17,562	4,068
Rolling 12 Months Ending in August					
2015	308,362	29,420	246,971	26,696	5,275
2016	327,903	30,566	263,955	27,262	6,120

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.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2006-August 2016 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	1,423	42	1,188	192	0
Year to Date					
2014	11,178	299	9,240	1,635	4
2015	10,357	417	8,479	1,458	2
2016	10,747	572	8,688	1,481	5
Rolling 12 Months Ending in August					
2015	15,885	562	13,048	2,270	4
2016	16,033	921	12,880	2,225	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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Totals may not equal sum of components because of independent rounding.

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

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

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

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	159	0	50	95	13
Year to Date					
2014	1,306	0	433	738	134
2015	1,229	0	428	687	114
2016	1,297	0	474	717	105
Rolling 12 Months Ending in August					
2015	1,879	0	645	1,053	180
2016	1,920	0	694	1,063	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-August 2016 (Thousand Tons)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	1,582	42	1,239	287	14
Year to Date					
2014	12,484	299	9,673	2,373	138
2015	11,586	417	8,907	2,145	116
2016	12,044	572	9,163	2,199	110
Rolling 12 Months Ending in August					
2015	17,763	562	13,693	3,323	184
2016	17,954	921	13,574	3,288	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-August 2016 (Billion Btus)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	34,520	4,312	14,655	122	15,432
Year to Date					
2014	286,141	30,357	114,838	746	140,199
2015	285,295	30,022	118,591	514	136,167
2016	259,379	29,795	104,343	527	124,714
Rolling 12 Months Ending in August					
2015	430,438	45,309	178,266	729	206,135
2016	398,049	43,769	160,789	735	192,755

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.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2006-August 2016 (Billion Btus)

Period	Total (all sectors)	Electric Power Sector		Commercial Sector	Industrial Sector
		Electric Utilities	Independent Power Producers		
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
August	77,307	704	1,311	422	74,870
Year to Date					
2014	630,512	5,881	14,989	2,605	607,037
2015	620,077	6,160	12,133	2,351	599,433
2016	606,953	5,842	11,430	2,891	586,789
Rolling 12 Months Ending in August					
2015	935,909	9,114	19,405	3,512	903,877
2016	910,513	8,926	17,325	4,072	880,189

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

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

Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.

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

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

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	107	24	344.0%	22	5	84	18	0	0	NM	1
Connecticut	10	0	--	0	0	10	0	0	0	0	0
Maine	1	1	19.0%	0	0	1	1	0	0	0	0
Massachusetts	74	18	316.0%	0	0	73	17	0	0	NM	NM
New Hampshire	22	5	303.0%	22	5	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	3,039	3,156	-3.7%	0	0	3,021	3,135	NM	NM	18	21
New Jersey	63	45	41.0%	0	0	63	45	0	0	0	0
New York	142	84	70.0%	0	0	136	78	0	0	6	6
Pennsylvania	2,833	3,027	-6.4%	0	0	2,821	3,012	NM	NM	12	15
East North Central	15,240	16,135	-5.5%	8,900	10,269	6,268	5,786	2	4	70	77
Illinois	3,977	4,348	-8.5%	222	449	3,703	3,843	NM	1	51	55
Indiana	3,552	3,863	-8.1%	3,388	3,605	162	256	1	1	NM	NM
Michigan	2,279	2,793	-18.0%	2,252	2,765	21	21	0	2	NM	5
Ohio	3,299	2,936	12.0%	914	1,267	2,381	1,666	NM	NM	3	3
Wisconsin	2,134	2,196	-2.8%	2,124	2,182	0	0	NM	NM	10	14
West North Central	12,570	12,000	4.7%	12,448	11,863	NM	1	4	2	116	134
Iowa	1,876	1,854	1.2%	1,807	1,780	0	0	3	2	66	72
Kansas	1,741	1,573	11.0%	1,741	1,573	0	0	0	0	0	0
Minnesota	1,385	1,194	16.0%	1,359	1,162	0	0	NM	0	26	32
Missouri	3,794	3,750	1.2%	3,790	3,748	NM	1	1	0	NM	1
Nebraska	1,382	1,456	-5.1%	1,364	1,433	0	0	0	0	18	23
North Dakota	2,246	2,033	10.0%	2,241	2,028	0	0	0	0	NM	6
South Dakota	146	140	4.3%	146	140	0	0	0	0	0	0
South Atlantic	12,110	10,863	11.0%	10,523	9,620	1,563	1,186	1	NM	23	54
Delaware	51	34	51.0%	0	0	51	34	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,027	1,881	7.7%	1,970	1,800	53	75	0	0	NM	NM
Georgia	2,314	2,192	5.6%	2,309	2,187	0	0	0	0	NM	4
Maryland	797	493	62.0%	0	0	795	489	0	NM	2	3
North Carolina	2,109	1,835	15.0%	2,064	1,785	NM	43	1	1	NM	NM
South Carolina	987	926	6.6%	985	921	0	0	0	0	NM	5
Virginia	795	837	-4.9%	737	781	51	45	NM	NM	7	10
West Virginia	3,030	2,665	14.0%	2,458	2,145	571	500	0	0	0	20
East South Central	7,608	7,723	-1.5%	7,259	7,376	327	326	0	0	22	20
Alabama	1,936	2,269	-15.0%	1,929	2,267	0	0	0	0	NM	NM
Kentucky	3,305	3,109	6.3%	3,305	3,109	0	0	0	0	0	0
Mississippi	529	581	-8.9%	202	255	327	326	0	0	0	0
Tennessee	1,839	1,764	4.3%	1,823	1,746	0	0	0	0	16	18
West South Central	13,286	13,620	-2.5%	6,578	6,773	6,694	6,825	0	0	NM	NM
Arkansas	1,550	1,355	14.0%	1,296	1,107	254	247	0	0	1	1
Louisiana	1,023	1,124	-9.0%	700	749	323	375	0	0	0	0
Oklahoma	1,460	1,696	-14.0%	1,313	1,526	133	149	0	0	NM	NM
Texas	9,253	9,445	-2.0%	3,269	3,391	5,984	6,053	0	0	0	0
Mountain	9,142	9,807	-6.8%	7,977	8,658	1,101	1,081	0	0	63	69
Arizona	1,768	1,895	-6.7%	1,768	1,895	0	0	0	0	0	0
Colorado	1,608	1,683	-4.4%	1,607	1,680	NM	NM	0	0	0	NM
Idaho	NM	1	NM	0	0	0	0	0	0	NM	1
Montana	998	972	2.7%	NM	NM	972	947	0	0	NM	NM
Nevada	242	252	-3.8%	183	196	60	56	0	0	0	0
New Mexico	815	1,101	-26.0%	815	1,101	0	0	0	0	0	0
Utah	1,216	1,367	-11.0%	1,143	1,287	NM	NM	0	0	48	47
Wyoming	2,493	2,537	-1.7%	2,436	2,476	NM	41	0	0	14	20
Pacific Contiguous	746	631	18.0%	209	213	530	412	0	0	6	6
California	6	10	-42.0%	0	0	0	NM	0	0	6	6
Oregon	209	213	-1.7%	209	213	0	0	0	0	0	0
Washington	531	409	30.0%	0	0	530	408	0	0	1	0
Pacific Noncontiguous	103	106	-3.2%	19	19	79	82	3	3	NM	NM
Alaska	36	41	-12.0%	19	19	NM	19	3	3	0	0
Hawaii	67	66	2.4%	0	0	65	63	0	0	NM	NM
U.S. Total	73,951	74,067	-0.2%	53,935	54,796	19,669	18,852	11	12	336	406

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

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

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

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	837	1,487	-44.0%	119	374	712	1,103	0	0	5	10
Connecticut	57	350	-84.0%	0	0	57	350	0	0	0	0
Maine	10	16	-38.0%	0	0	8	10	0	0	2	7
Massachusetts	650	747	-13.0%	0	0	648	743	0	0	3	3
New Hampshire	119	374	-68.0%	119	374	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	19,065	24,147	-21.0%	0	0	18,916	23,981	NM	2	148	165
New Jersey	385	581	-34.0%	0	0	385	581	0	0	0	0
New York	603	899	-33.0%	0	0	554	853	0	0	49	46
Pennsylvania	18,077	22,667	-20.0%	0	0	17,977	22,546	NM	2	99	119
East North Central	96,278	116,236	-17.0%	60,238	73,134	35,472	42,450	21	32	546	621
Illinois	24,380	31,542	-23.0%	2,942	3,685	21,057	27,445	8	10	372	401
Indiana	24,010	27,593	-13.0%	22,636	25,739	1,363	1,842	8	8	3	3
Michigan	15,709	20,095	-22.0%	15,498	19,870	162	162	4	12	45	51
Ohio	19,512	22,175	-12.0%	6,588	9,137	12,890	13,001	NM	1	34	37
Wisconsin	12,666	14,831	-15.0%	12,574	14,701	0	0	NM	NM	92	129
West North Central	77,995	87,743	-11.0%	77,093	86,704	8	11	31	36	863	993
Iowa	10,145	13,278	-24.0%	9,652	12,731	0	0	21	21	472	526
Kansas	9,737	11,521	-15.0%	9,737	11,521	0	0	0	0	0	0
Minnesota	9,181	10,346	-11.0%	8,980	10,103	0	0	2	2	199	241
Missouri	24,913	26,635	-6.5%	24,885	26,600	8	11	7	13	14	12
Nebraska	8,575	10,074	-15.0%	8,434	9,903	0	0	0	0	141	171
North Dakota	14,430	15,414	-6.4%	14,393	15,371	0	0	0	0	37	43
South Dakota	1,013	475	113.0%	1,013	475	0	0	0	0	0	0
South Atlantic	71,398	78,172	-8.7%	62,657	68,533	8,500	9,258	13	21	228	359
Delaware	209	248	-16.0%	0	0	209	248	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	11,496	13,248	-13.0%	11,243	12,879	220	333	0	0	33	36
Georgia	13,382	14,933	-10.0%	13,347	14,896	0	0	0	0	36	37
Maryland	4,124	4,776	-14.0%	0	0	4,110	4,748	0	5	14	23
North Carolina	10,361	12,447	-17.0%	10,121	12,188	203	217	8	11	29	32
South Carolina	6,292	6,918	-9.0%	6,257	6,877	0	0	0	0	35	40
Virginia	5,368	5,423	-1.0%	5,108	4,990	201	370	NM	NM	54	57
West Virginia	20,165	20,179	-0.1%	16,581	16,704	3,557	3,342	0	0	27	134
East South Central	46,687	54,630	-15.0%	44,471	52,203	2,051	2,257	0	0	165	170
Alabama	11,360	14,752	-23.0%	11,322	14,720	0	0	0	0	38	32
Kentucky	21,773	24,838	-12.0%	21,773	24,838	0	0	0	0	0	0
Mississippi	3,071	3,746	-18.0%	1,020	1,489	2,051	2,257	0	0	0	0
Tennessee	10,483	11,293	-7.2%	10,356	11,155	0	0	0	0	127	138
West South Central	75,241	87,877	-14.0%	36,852	43,647	38,283	44,114	0	0	107	116
Arkansas	8,397	9,261	-9.3%	6,813	7,626	1,576	1,626	0	0	9	9
Louisiana	6,037	7,645	-21.0%	4,184	4,374	1,854	3,271	0	0	0	0
Oklahoma	7,276	11,254	-35.0%	6,425	10,446	753	701	0	0	98	106
Texas	53,531	59,716	-10.0%	19,431	21,201	34,100	38,516	0	0	0	0
Mountain	58,442	69,081	-15.0%	51,612	61,336	6,527	7,410	0	0	303	334
Arizona	10,650	13,432	-21.0%	10,650	13,432	0	0	0	0	0	0
Colorado	10,869	12,105	-10.0%	10,856	12,089	NM	NM	0	0	NM	NM
Idaho	9	11	-16.0%	0	0	0	0	0	0	9	11
Montana	5,906	6,763	-13.0%	161	184	5,740	6,575	0	0	4	4
Nevada	900	1,037	-13.0%	560	718	340	318	0	0	0	0
New Mexico	6,543	7,885	-17.0%	6,543	7,885	0	0	0	0	0	0
Utah	7,632	10,004	-24.0%	7,297	9,640	158	192	0	0	176	172
Wyoming	15,933	17,845	-11.0%	15,544	17,388	276	313	0	0	113	144
Pacific Contiguous	1,977	2,364	-16.0%	604	584	1,318	1,728	0	0	54	52
California	49	65	-25.0%	0	0	0	NM	0	0	49	46
Oregon	604	584	3.6%	604	584	0	0	0	0	0	0
Washington	1,324	1,716	-23.0%	0	0	1,318	1,710	0	0	6	6
Pacific Noncontiguous	796	761	4.6%	166	156	591	564	27	27	NM	NM
Alaska	304	321	-5.2%	166	156	111	138	27	27	0	0
Hawaii	492	440	12.0%	0	0	479	426	0	0	NM	NM
U.S. Total	448,716	522,498	-14.0%	333,814	386,670	112,378	132,877	92	117	2,432	2,834

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	139	64	117.0%	NM	12	117	47	NM	NM	NM	NM
Connecticut	57	18	208.0%	NM	NM	55	16	NM	NM	NM	NM
Maine	NM	16	NM	NM	NM	21	15	NM	NM	NM	NM
Massachusetts	NM	19	NM	NM	NM	2	15	NM	NM	NM	NM
New Hampshire	NM	7	NM	NM	NM	6	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	283	154	84.0%	160	47	NM	94	NM	7	NM	6
New Jersey	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
New York	203	88	131.0%	159	46	NM	33	NM	6	2	2
Pennsylvania	NM	56	NM	NM	NM	NM	52	NM	NM	3	NM
East North Central	93	89	4.7%	55	64	36	21	NM	NM	1	3
Illinois	NM	9	NM	NM	4	9	5	NM	NM	NM	NM
Indiana	NM	20	NM	NM	18	NM	NM	NM	NM	1	2
Michigan	20	24	-15.0%	20	23	0	0	0	0	NM	NM
Ohio	35	27	30.0%	NM	14	26	13	NM	NM	NM	1
Wisconsin	NM	8	NM	NM	5	1	3	NM	NM	0	NM
West North Central	44	46	-5.2%	41	42	NM	NM	1	NM	NM	NM
Iowa	NM	6	NM	NM	6	NM	NM	NM	NM	NM	NM
Kansas	3	7	-62.0%	3	7	0	0	0	0	0	0
Minnesota	NM	NM	NM	NM	5	NM	NM	1	NM	NM	NM
Missouri	NM	14	NM	NM	14	NM	NM	NM	NM	0	0
Nebraska	6	NM	NM	6	NM	0	0	0	0	0	0
North Dakota	NM	2	NM	NM	2	0	0	NM	NM	NM	NM
South Dakota	NM	4	NM	NM	4	NM	NM	NM	NM	0	0
South Atlantic	528	282	87.0%	437	218	81	45	NM	NM	9	10
Delaware	NM	8	NM	NM	NM	NM	8	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	289	52	453.0%	286	50	NM	NM	0	0	NM	1
Georgia	12	13	-7.3%	9	7	NM	NM	NM	NM	NM	5
Maryland	NM	31	NM	NM	NM	NM	21	NM	NM	0	NM
North Carolina	29	25	18.0%	27	23	NM	NM	NM	NM	NM	NM
South Carolina	14	15	-8.3%	11	12	NM	NM	NM	NM	2	2
Virginia	108	118	-8.5%	85	105	22	13	NM	NM	NM	NM
West Virginia	21	19	8.5%	16	19	5	0	0	0	0	0
East South Central	47	45	2.9%	41	42	NM	NM	NM	NM	NM	2
Alabama	NM	9	NM	2	6	NM	NM	0	0	NM	2
Kentucky	15	17	-14.0%	15	17	0	0	0	0	0	0
Mississippi	2	1	61.0%	2	1	0	0	0	0	0	0
Tennessee	23	18	25.0%	23	18	NM	NM	NM	NM	NM	NM
West South Central	19	20	-4.8%	11	12	8	8	NM	NM	NM	NM
Arkansas	3	5	-38.0%	2	4	1	0	0	0	0	0
Louisiana	1	1	-19.0%	1	1	0	0	0	0	0	0
Oklahoma	NM	NM	NM	2	NM	0	0	NM	NM	NM	NM
Texas	NM	14	NM	6	6	7	7	NM	NM	NM	NM
Mountain	NM	34	NM	NM	30	4	3	NM	NM	NM	NM
Arizona	NM	6	NM	NM	6	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	4	NM	NM	NM	3	2	0	0	0	0
Nevada	2	4	-38.0%	1	3	1	1	0	0	0	0
New Mexico	NM	9	NM	NM	9	0	0	0	0	NM	NM
Utah	NM	3	NM	4	3	NM	NM	0	0	NM	NM
Wyoming	7	7	-5.0%	6	6	0	0	0	0	0	NM
Pacific Contiguous	14	16	-11.0%	NM	9	NM	NM	NM	NM	3	NM
California	NM	12	NM	NM	7	NM	NM	NM	NM	NM	NM
Oregon	NM	NM	NM	0	1	0	0	NM	NM	0	0
Washington	3	NM	NM	NM	NM	2	1	NM	NM	1	NM
Pacific Noncontiguous	997	1,112	-10.0%	856	977	113	111	3	NM	NM	23
Alaska	118	139	-15.0%	111	128	0	0	NM	NM	7	11
Hawaii	878	974	-9.8%	745	849	113	111	2	1	NM	13
U.S. Total	2,194	1,861	18.0%	1,650	1,453	481	337	NM	22	50	49

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	707	3,221	-78.0%	89	318	579	2,769	30	87	NM	48
Connecticut	166	685	-76.0%	NM	8	153	662	NM	NM	NM	NM
Maine	197	851	-77.0%	NM	NM	188	801	NM	NM	6	44
Massachusetts	271	1,260	-78.0%	29	88	227	1,128	NM	43	NM	NM
New Hampshire	44	278	-84.0%	38	201	NM	67	5	10	NM	NM
Rhode Island	24	132	-82.0%	12	15	9	110	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	1,485	4,351	-66.0%	532	1,369	888	2,845	NM	59	41	77
New Jersey	105	463	-77.0%	NM	NM	103	459	NM	NM	NM	NM
New York	950	2,907	-67.0%	529	1,365	380	1,434	NM	54	21	54
Pennsylvania	430	981	-56.0%	1	NM	405	952	NM	NM	19	23
East North Central	752	800	-6.0%	496	575	235	196	5	3	17	25
Illinois	97	71	37.0%	NM	28	71	42	1	NM	NM	NM
Indiana	151	220	-31.0%	141	202	NM	NM	NM	NM	10	16
Michigan	180	165	8.9%	174	160	0	0	2	NM	3	4
Ohio	264	287	-8.0%	102	135	159	149	NM	NM	3	4
Wisconsin	60	58	4.5%	54	51	4	5	1	1	1	1
West North Central	380	475	-20.0%	351	433	NM	NM	11	10	1	1
Iowa	80	65	23.0%	78	63	1	NM	0	NM	NM	NM
Kansas	47	82	-43.0%	47	82	0	0	0	0	0	0
Minnesota	62	81	-23.0%	NM	41	NM	NM	10	10	1	1
Missouri	102	132	-22.0%	102	131	NM	NM	NM	NM	0	0
Nebraska	43	40	5.7%	43	40	0	0	0	0	0	0
North Dakota	38	36	5.1%	38	36	0	0	NM	NM	NM	NM
South Dakota	NM	39	NM	NM	39	NM	NM	NM	NM	0	0
South Atlantic	3,201	4,793	-33.0%	2,442	3,407	665	1,040	NM	176	91	170
Delaware	90	235	-62.0%	NM	NM	86	230	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,085	743	46.0%	1,060	721	NM	NM	0	0	15	14
Georgia	188	328	-43.0%	108	126	34	83	1	NM	45	118
Maryland	299	554	-46.0%	NM	17	283	364	NM	172	2	NM
North Carolina	380	704	-46.0%	315	650	57	43	NM	NM	7	12
South Carolina	179	346	-48.0%	156	308	NM	16	NM	NM	19	21
Virginia	844	1,706	-50.0%	658	1,425	182	274	NM	NM	3	5
West Virginia	137	178	-23.0%	128	156	9	22	0	0	0	0
East South Central	408	511	-20.0%	372	455	12	28	NM	NM	24	27
Alabama	71	129	-45.0%	38	77	11	27	0	0	22	25
Kentucky	145	166	-13.0%	145	166	0	0	0	0	0	0
Mississippi	23	26	-10.0%	22	25	0	0	0	0	1	1
Tennessee	168	190	-11.0%	166	187	1	NM	NM	NM	1	NM
West South Central	200	337	-41.0%	132	198	63	129	NM	NM	4	9
Arkansas	50	70	-27.0%	37	51	11	12	0	0	2	6
Louisiana	22	101	-78.0%	19	80	3	20	0	0	0	0
Oklahoma	18	9	95.0%	17	9	0	0	NM	NM	NM	NM
Texas	110	158	-30.0%	59	58	48	97	NM	NM	NM	NM
Mountain	313	312	0.5%	274	280	34	28	NM	NM	4	4
Arizona	68	60	14.0%	68	60	0	0	NM	NM	0	0
Colorado	NM	18	NM	NM	18	0	0	0	0	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	35	NM	NM	NM	30	23	0	0	0	0
Nevada	18	23	-20.0%	14	19	4	NM	0	0	0	0
New Mexico	73	100	-27.0%	73	99	0	0	0	0	NM	NM
Utah	34	22	52.0%	33	21	NM	NM	0	0	NM	NM
Wyoming	63	54	16.0%	59	51	0	0	0	0	4	4
Pacific Contiguous	141	156	-9.7%	48	53	30	61	NM	NM	62	41
California	113	128	-12.0%	41	43	NM	53	NM	NM	53	31
Oregon	NM	NM	NM	4	7	0	0	NM	NM	0	0
Washington	24	22	13.0%	NM	NM	12	8	NM	NM	9	10
Pacific Noncontiguous	7,277	7,918	-8.1%	6,359	6,861	769	887	11	9	139	160
Alaska	876	950	-7.8%	815	878	0	0	3	3	58	70
Hawaii	6,401	6,968	-8.1%	5,543	5,984	769	887	8	6	NM	91
U.S. Total	14,865	22,874	-35.0%	11,095	13,949	3,292	8,015	86	347	392	563

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

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 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	94	130	-28.0%	43	82	47	42	0	0	NM	6
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	41	-100.0%	0	41	0	0	0	0	0	0
Michigan	41	40	0.9%	37	36	0	0	0	0	NM	4
Ohio	47	42	12.0%	0	0	47	42	0	0	NM	NM
Wisconsin	6	7	-3.0%	6	4	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	86	76	12.0%	83	74	0	0	0	0	3	3
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	83	74	13.0%	83	74	0	0	0	0	0	0
Georgia	3	3	1.9%	0	0	0	0	0	0	3	3
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	46	29	59.0%	46	29	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	46	29	59.0%	46	29	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	176	137	28.0%	164	126	0	0	0	0	12	11
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	173	133	30.0%	164	126	0	0	0	0	NM	7
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	4	NM	0	0	0	0	0	0	NM	4
Mountain	15	16	-5.5%	0	0	15	16	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	15	16	-5.5%	0	0	15	16	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	428	397	7.7%	337	311	62	59	0	0	29	27

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

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 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	40	33	23.0%	0	0	0	0	0	0	40	33
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	31	30	2.6%	0	0	0	0	0	0	31	30
East North Central	699	904	-23.0%	384	518	279	341	0	0	37	45
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	159	249	-36.0%	159	249	0	0	0	0	0	0
Michigan	232	282	-18.0%	201	248	1	7	0	0	29	27
Ohio	279	334	-17.0%	0	0	278	334	0	0	1	0
Wisconsin	30	39	-23.0%	23	21	0	0	0	0	7	18
West North Central	25	21	21.0%	0	0	0	0	1	1	24	20
Iowa	25	21	21.0%	0	0	0	0	1	1	24	20
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	596	422	41.0%	578	402	0	0	0	0	18	20
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	578	402	44.0%	578	402	0	0	0	0	0	0
Georgia	18	20	-8.6%	0	0	0	0	0	0	18	20
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	311	274	14.0%	311	274	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	311	274	14.0%	311	274	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	1,262	1,086	16.0%	1,175	995	0	0	0	0	87	91
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,232	1,033	19.0%	1,175	995	0	0	0	0	57	39
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	31	52	-41.0%	0	0	0	0	0	0	31	52
Mountain	107	122	-12.0%	0	0	107	122	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	107	122	-12.0%	0	0	107	122	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	3,042	2,863	6.2%	2,447	2,189	386	464	1	1	207	208

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	49,128	50,468	-2.7%	837	1,102	46,371	47,538	933	921	987	906
Connecticut	12,976	13,067	-0.7%	12	0	12,069	12,145	402	413	494	509
Maine	3,931	2,139	84.0%	0	0	3,555	1,839	NM	NM	346	270
Massachusetts	21,837	23,519	-7.1%	709	930	20,573	22,068	421	408	134	113
New Hampshire	4,612	4,653	-0.9%	114	172	4,468	4,450	NM	NM	NM	NM
Rhode Island	5,768	7,091	-19.0%	0	0	5,705	7,037	NM	NM	0	0
Vermont	3	0	NM	3	0	0	0	0	0	0	0
Middle Atlantic	162,481	130,167	25.0%	17,798	14,169	142,424	113,824	1,050	999	1,209	1,176
New Jersey	41,076	28,520	44.0%	NM	NM	40,422	27,882	NM	168	348	369
New York	63,493	54,045	17.0%	17,631	14,051	44,927	39,162	733	682	202	150
Pennsylvania	57,912	47,602	22.0%	NM	NM	57,075	46,779	NM	NM	659	657
East North Central	107,620	62,085	73.0%	53,342	26,598	51,381	32,331	NM	1,496	NM	1,660
Illinois	21,035	8,728	141.0%	2,876	1,031	17,512	6,565	343	829	304	302
Indiana	16,086	9,980	61.0%	12,895	7,756	2,729	1,708	118	112	344	405
Michigan	31,933	14,906	114.0%	16,625	3,898	13,900	9,826	NM	350	NM	831
Ohio	23,412	19,606	19.0%	7,694	5,861	15,542	13,565	NM	NM	40	51
Wisconsin	15,155	8,865	71.0%	13,251	8,051	1,697	667	NM	77	NM	70
West North Central	28,149	19,348	45.0%	23,370	15,771	4,013	2,967	NM	398	NM	213
Iowa	3,977	2,467	61.0%	3,819	2,364	NM	NM	NM	NM	NM	NM
Kansas	3,270	2,470	32.0%	3,080	2,353	0	0	0	0	NM	116
Minnesota	10,635	6,397	66.0%	8,273	5,077	2,089	1,110	NM	183	NM	27
Missouri	6,926	5,763	20.0%	4,888	3,736	1,923	1,857	109	166	NM	NM
Nebraska	1,224	890	38.0%	1,206	890	0	0	NM	NM	17	0
North Dakota	NM	418	NM	832	407	0	0	0	0	NM	NM
South Dakota	1,272	943	35.0%	1,272	943	0	0	0	0	0	0
South Atlantic	265,935	228,454	16.0%	207,359	180,177	55,268	45,064	692	674	2,617	2,539
Delaware	8,136	6,188	31.0%	NM	NM	6,951	5,059	0	0	1,082	1,069
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	121,704	113,966	6.8%	110,251	106,493	10,612	6,648	NM	NM	805	802
Georgia	41,560	36,274	15.0%	31,781	22,656	9,540	13,205	0	0	240	413
Maryland	10,771	5,358	101.0%	0	0	10,164	4,769	557	556	50	NM
North Carolina	30,147	24,956	21.0%	24,894	21,209	5,135	3,671	7	5	111	70
South Carolina	14,614	13,548	7.9%	12,104	12,254	2,461	1,277	NM	NM	34	NM
Virginia	38,093	26,216	45.0%	27,873	17,420	10,074	8,650	NM	NM	141	139
West Virginia	837	1,871	-55.0%	353	85	331	1,786	0	0	153	NM
East South Central	100,600	81,833	23.0%	64,441	48,854	34,918	31,614	NM	NM	1,109	1,235
Alabama	43,952	38,312	15.0%	12,152	10,368	31,199	27,175	0	0	602	769
Kentucky	7,837	4,984	57.0%	6,443	3,914	1,240	884	0	0	154	185
Mississippi	38,134	32,350	18.0%	35,457	28,599	2,467	3,547	NM	NM	200	195
Tennessee	10,676	6,187	73.0%	10,389	5,974	NM	NM	NM	NM	153	85
West South Central	283,060	286,937	-1.4%	100,416	101,021	139,415	144,414	816	754	42,413	40,748
Arkansas	15,936	12,107	32.0%	6,188	4,449	9,622	7,517	NM	NM	124	139
Louisiana	49,632	50,712	-2.1%	29,345	30,678	1,996	2,597	NM	NM	18,137	17,271
Oklahoma	29,766	28,040	6.2%	21,239	17,712	8,434	10,239	NM	NM	NM	83
Texas	187,725	196,079	-4.3%	43,644	48,182	119,363	124,062	637	580	24,081	23,255
Mountain	88,316	91,317	-3.3%	62,917	64,918	24,118	25,148	348	343	NM	908
Arizona	36,279	38,340	-5.4%	19,043	20,527	17,121	17,700	115	112	0	0
Colorado	10,039	9,992	0.5%	8,388	8,122	1,632	1,851	0	0	NM	NM
Idaho	3,696	3,631	1.8%	2,401	2,547	NM	1,049	0	0	NM	35
Montana	1,184	803	47.0%	1,070	737	NM	NM	0	0	0	0
Nevada	21,550	22,797	-5.5%	20,163	21,395	1,157	1,168	NM	NM	173	178
New Mexico	8,632	8,715	-0.9%	5,894	5,964	2,608	2,617	98	99	NM	NM
Utah	6,401	6,659	-3.9%	5,762	5,563	NM	674	78	77	338	344
Wyoming	NM	382	NM	NM	NM	NM	NM	0	0	NM	297
Pacific Contiguous	110,196	116,521	-5.4%	44,801	44,033	58,408	65,401	NM	1,221	5,724	5,866
California	83,759	94,656	-12.0%	29,287	30,386	47,738	57,360	1,162	1,129	5,572	5,781
Oregon	14,411	11,641	24.0%	8,076	4,922	6,127	6,572	NM	NM	NM	61
Washington	12,025	10,224	18.0%	7,438	8,725	4,542	1,469	NM	NM	36	25
Pacific Noncontiguous	2,464	2,212	11.0%	2,346	2,116	0	0	NM	NM	NM	NM
Alaska	2,464	2,212	11.0%	2,346	2,116	0	0	NM	NM	NM	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,197,948	1,069,342	12.0%	577,627	498,759	556,314	508,301	6,776	6,936	57,231	55,346

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	285,707	272,607	4.8%	2,464	3,133	270,522	256,804	6,244	6,364	6,477	6,305
Connecticut	89,248	83,458	6.9%	24	12	83,190	77,195	2,707	2,805	3,327	3,446
Maine	19,201	12,435	54.0%	0	0	16,782	10,186	NM	NM	2,213	2,044
Massachusetts	120,491	111,957	7.6%	2,016	2,832	114,806	105,496	2,823	2,908	846	721
New Hampshire	22,494	29,087	-23.0%	418	273	21,874	28,602	NM	NM	NM	NM
Rhode Island	34,267	35,654	-3.9%	0	0	33,870	35,325	397	329	0	0
Vermont	6	16	-62.0%	6	16	0	0	0	0	0	0
Middle Atlantic	902,649	788,502	14.0%	89,469	81,494	797,586	691,870	7,360	7,023	8,234	8,114
New Jersey	226,349	181,676	25.0%	NM	NM	222,154	177,463	1,125	1,102	2,366	2,505
New York	335,968	316,770	6.1%	88,640	80,802	240,735	229,987	5,290	4,927	1,304	1,054
Pennsylvania	340,332	290,056	17.0%	NM	NM	334,698	284,420	945	995	4,565	4,556
East North Central	636,462	465,784	37.0%	289,218	198,933	324,610	243,846	8,962	10,769	13,673	12,236
Illinois	107,032	58,850	82.0%	10,948	3,841	90,276	46,678	3,785	6,309	2,023	2,022
Indiana	107,139	83,043	29.0%	83,630	65,028	20,087	14,599	774	613	2,648	2,803
Michigan	179,955	112,340	60.0%	67,472	28,448	101,856	74,919	2,894	2,491	7,733	6,483
Ohio	149,273	145,239	2.8%	42,583	40,169	105,608	103,968	863	787	219	316
Wisconsin	93,063	66,312	40.0%	84,585	61,448	6,783	3,681	NM	570	1,049	613
West North Central	143,624	103,193	39.0%	118,504	87,478	19,694	11,868	2,846	2,383	2,579	1,463
Iowa	18,875	13,547	39.0%	17,785	12,695	NM	NM	NM	381	NM	471
Kansas	15,698	13,082	20.0%	14,564	12,516	0	0	0	0	1,134	566
Minnesota	54,925	36,212	52.0%	43,389	30,229	9,439	4,308	NM	1,379	NM	295
Missouri	38,372	29,326	31.0%	27,261	21,118	10,252	7,559	821	622	NM	NM
Nebraska	5,267	3,720	42.0%	5,101	3,698	0	0	NM	NM	NM	NM
North Dakota	3,966	2,316	71.0%	3,883	2,233	0	0	0	0	NM	84
South Dakota	6,522	4,990	31.0%	6,522	4,990	0	0	0	0	0	0
South Atlantic	1,693,806	1,535,463	10.0%	1,345,530	1,233,572	325,049	278,212	4,561	4,482	18,666	19,198
Delaware	44,937	40,552	11.0%	NM	NM	36,658	31,907	0	0	7,843	8,320
District of Columbia	492	520	-5.3%	0	0	0	0	492	520	0	0
Florida	828,557	776,225	6.7%	746,545	728,506	75,729	41,602	NM	NM	6,069	5,993
Georgia	273,032	243,214	12.0%	201,169	157,517	69,994	82,668	0	0	1,868	3,029
Maryland	41,836	29,597	41.0%	0	0	37,812	25,653	3,679	3,735	346	210
North Carolina	205,745	182,000	13.0%	178,459	159,789	26,510	21,689	51	29	725	493
South Carolina	86,159	84,552	1.9%	69,955	74,979	15,849	9,423	NM	NM	276	118
Virginia	205,681	170,112	21.0%	147,789	111,299	56,753	57,743	NM	NM	1,094	1,027
West Virginia	7,364	8,691	-15.0%	1,176	1,157	5,742	7,526	0	0	446	NM
East South Central	651,353	586,801	11.0%	417,834	351,977	223,937	224,441	898	883	8,684	9,500
Alabama	285,586	273,448	4.4%	90,150	76,633	190,294	190,630	0	0	5,142	6,185
Kentucky	48,437	33,713	44.0%	42,768	27,840	4,529	4,610	0	0	1,139	1,263
Mississippi	256,349	230,897	11.0%	225,734	200,227	29,053	29,148	NM	NM	1,489	1,454
Tennessee	60,981	48,743	25.0%	59,181	47,278	NM	NM	826	815	913	597
West South Central	1,846,478	1,809,248	2.1%	647,636	595,779	875,508	908,419	5,757	5,251	317,577	299,799
Arkansas	89,890	81,087	11.0%	40,172	23,923	48,522	55,765	NM	NM	1,178	1,382
Louisiana	375,776	350,707	7.1%	203,199	205,470	33,638	15,237	1,215	1,236	137,723	128,764
Oklahoma	194,583	175,288	11.0%	137,385	115,306	56,496	59,371	NM	NM	592	597
Texas	1,186,229	1,202,166	-1.3%	266,879	251,080	736,851	778,046	4,414	3,984	178,084	169,056
Mountain	526,663	466,259	13.0%	397,248	332,176	119,780	124,751	2,465	2,527	7,170	6,804
Arizona	185,463	159,411	16.0%	112,351	85,074	72,297	73,505	815	831	0	0
Colorado	69,061	55,940	23.0%	56,735	42,217	12,179	13,573	0	0	146	NM
Idaho	17,462	17,191	1.6%	11,045	10,709	5,886	6,176	0	0	531	307
Montana	6,417	4,920	30.0%	5,868	4,539	NM	NM	0	0	0	0
Nevada	142,930	134,536	6.2%	132,900	124,370	8,409	8,512	390	408	1,232	1,245
New Mexico	57,148	51,709	11.0%	37,872	31,419	18,350	19,331	700	721	225	238
Utah	44,923	39,721	13.0%	39,710	33,498	NM	3,161	560	567	2,580	2,495
Wyoming	3,259	2,831	15.0%	NM	NM	NM	NM	0	0	2,455	2,369
Pacific Contiguous	588,782	661,401	-11.0%	232,464	255,358	305,114	353,799	8,989	9,031	42,215	43,212
California	467,205	542,383	-14.0%	162,436	183,641	255,286	307,654	8,289	8,359	41,194	42,729
Oregon	67,201	67,764	-0.8%	30,700	27,341	35,192	39,494	NM	626	676	304
Washington	54,376	51,255	6.1%	39,328	44,377	14,637	6,651	NM	47	345	180
Pacific Noncontiguous	16,956	19,995	-15.0%	16,174	19,263	0	0	NM	NM	NM	717
Alaska	16,956	19,995	-15.0%	16,174	19,263	0	0	NM	NM	NM	717
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	7,292,480	6,709,252	8.7%	3,556,541	3,159,164	3,261,801	3,094,010	48,142	48,729	425,996	407,349

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, August 2016 and August 2015 (Million Cubic Feet)

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	1,219	1,188	2.6%	0	0	1,139	1,106	NM	NM	0	0
Connecticut	51	NM	NM	0	0	51	NM	0	0	0	0
Maine	91	NM	NM	0	0	91	NM	0	0	0	0
Massachusetts	437	429	1.8%	0	0	437	429	0	0	0	0
New Hampshire	220	192	14.0%	0	0	140	NM	NM	NM	0	0
Rhode Island	366	372	-1.5%	0	0	366	372	0	0	0	0
Vermont	53	NM	NM	0	0	53	NM	0	0	0	0
Middle Atlantic	5,675	5,640	0.6%	0	0	5,494	5,459	NM	NM	NM	140
New Jersey	1,017	1,033	-1.6%	0	0	980	1,003	NM	NM	0	0
New York	1,852	1,818	1.8%	0	0	1,852	1,818	0	0	0	0
Pennsylvania	2,806	2,788	0.6%	0	0	2,662	2,638	NM	NM	NM	140
East North Central	6,972	6,844	1.9%	785	796	6,102	5,981	NM	9	NM	NM
Illinois	1,546	1,526	1.3%	0	0	1,546	1,526	0	0	0	0
Indiana	801	788	1.7%	768	756	NM	NM	0	0	NM	NM
Michigan	2,221	2,177	2.0%	0	0	2,221	2,177	0	0	0	0
Ohio	1,133	1,140	-0.6%	0	NM	1,133	1,121	0	0	0	0
Wisconsin	1,271	1,214	4.8%	NM	NM	1,185	1,141	NM	9	NM	NM
West North Central	1,157	1,132	2.3%	360	353	797	779	0	0	0	0
Iowa	276	270	2.3%	0	0	276	270	0	0	0	0
Kansas	163	159	2.5%	0	0	163	159	0	0	0	0
Minnesota	397	398	-0.2%	91	NM	306	299	0	0	0	0
Missouri	164	176	-6.7%	112	125	52	NM	0	0	0	0
Nebraska	157	130	22.0%	157	130	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	4,741	4,774	-0.7%	503	558	3,804	3,812	211	212	223	192
Delaware	175	170	2.8%	0	0	145	143	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	637	714	-11.0%	141	191	496	523	0	0	0	0
Georgia	379	404	-6.3%	0	0	331	325	0	NM	NM	NM
Maryland	273	271	0.8%	0	0	200	202	NM	NM	0	0
North Carolina	1,173	1,120	4.8%	0	0	1,058	1,036	NM	NM	0	0
South Carolina	536	523	2.4%	352	358	NM	NM	0	0	NM	NM
Virginia	1,555	1,557	-0.2%	NM	NM	1,523	1,529	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	564	556	1.4%	230	227	334	330	0	0	0	0
Alabama	103	NM	NM	0	0	103	NM	0	0	0	0
Kentucky	244	241	1.1%	230	227	NM	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	191	189	1.4%	0	0	191	189	0	0	0	0
West South Central	1,734	1,684	2.9%	0	0	1,675	1,647	NM	NM	0	0
Arkansas	175	169	3.2%	0	0	175	169	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	1,518	1,474	3.0%	0	0	1,459	1,436	NM	NM	0	0
Mountain	486	546	-11.0%	NM	NM	463	452	0	0	0	0
Arizona	96	163	-41.0%	0	NM	96	NM	0	0	0	0
Colorado	115	NM	NM	0	0	115	NM	0	0	0	0
Idaho	64	NM	NM	NM	NM	NM	NM	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	57	NM	NM	0	0	57	NM	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	154	149	3.0%	0	0	154	149	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,542	5,578	-0.7%	798	693	3,343	3,367	1,401	1,518	0	0
California	4,376	4,446	-1.6%	263	172	2,758	2,797	1,355	1,477	0	0
Oregon	638	618	3.2%	142	140	451	438	NM	NM	0	0
Washington	527	514	2.6%	393	381	134	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	28,180	28,004	0.6%	2,699	2,720	23,151	22,933	1,922	1,962	408	389

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	9,141	9,152	-0.1%	0	0	8,546	8,494	594	658	0	0
Connecticut	380	383	-0.9%	0	0	380	383	0	0	0	0
Maine	681	683	-0.4%	0	0	681	683	0	0	0	0
Massachusetts	3,288	3,288	0.0%	0	0	3,288	3,288	0	0	0	0
New Hampshire	1,574	1,481	6.3%	0	0	980	823	594	658	0	0
Rhode Island	2,815	2,914	-3.4%	0	0	2,815	2,914	0	0	0	0
Vermont	403	403	0.1%	0	0	403	403	0	0	0	0
Middle Atlantic	42,839	42,477	0.9%	0	0	41,298	40,998	522	429	1,019	1,050
New Jersey	7,759	7,955	-2.5%	0	0	7,416	7,650	343	305	0	0
New York	13,926	13,928	0.0%	0	0	13,926	13,928	0	0	0	0
Pennsylvania	21,153	20,594	2.7%	0	0	19,956	19,420	NM	NM	1,019	1,050
East North Central	52,581	53,042	-0.9%	5,891	6,011	45,920	46,409	293	139	477	483
Illinois	11,583	12,128	-4.5%	0	0	11,583	12,128	0	0	0	0
Indiana	6,044	6,034	0.2%	5,762	5,769	128	128	0	0	NM	136
Michigan	16,672	16,675	0.0%	0	0	16,672	16,675	0	0	0	0
Ohio	8,515	8,637	-1.4%	NM	118	8,499	8,519	0	0	0	0
Wisconsin	9,766	9,568	2.1%	114	123	9,037	8,959	293	139	322	347
West North Central	8,630	8,489	1.7%	2,617	2,486	6,013	6,002	0	0	0	0
Iowa	2,083	2,079	0.2%	0	0	2,083	2,079	0	0	0	0
Kansas	1,229	1,226	0.2%	0	0	1,229	1,226	0	0	0	0
Minnesota	2,943	2,966	-0.8%	637	663	2,307	2,304	0	0	0	0
Missouri	1,161	1,203	-3.5%	767	809	394	393	0	0	0	0
Nebraska	1,214	1,014	20.0%	1,214	1,014	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	36,371	36,991	-1.7%	3,792	4,084	28,568	28,948	2,003	2,112	2,008	1,846
Delaware	1,318	1,323	-0.4%	0	0	1,081	1,084	0	0	237	238
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,912	5,379	-8.7%	1,138	1,394	3,774	3,984	0	0	0	0
Georgia	2,946	3,268	-9.8%	0	0	2,488	2,489	0	380	458	398
Maryland	2,113	2,121	-0.4%	0	0	1,484	1,498	629	623	0	0
North Carolina	9,152	8,936	2.4%	0	0	7,988	8,013	1,164	923	0	0
South Carolina	4,195	4,128	1.6%	2,590	2,623	292	295	0	0	1,313	1,210
Virginia	11,650	11,747	-0.8%	NM	NM	11,374	11,495	211	186	0	0
West Virginia	NM	90	NM	0	0	NM	90	0	0	0	0
East South Central	4,229	4,237	-0.2%	1,724	1,727	2,505	2,510	0	0	0	0
Alabama	771	771	0.0%	0	0	771	771	0	0	0	0
Kentucky	1,823	1,828	-0.3%	1,724	1,727	NM	101	0	0	0	0
Mississippi	200	200	0.1%	0	0	200	200	0	0	0	0
Tennessee	1,435	1,438	-0.2%	0	0	1,435	1,438	0	0	0	0
West South Central	13,097	12,939	1.2%	0	0	12,577	12,587	520	352	0	0
Arkansas	1,326	1,319	0.5%	0	0	1,326	1,319	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	307	309	-0.7%	0	0	307	309	0	0	0	0
Texas	11,464	11,311	1.4%	0	0	10,944	10,958	520	352	0	0
Mountain	3,724	4,177	-11.0%	228	688	3,496	3,489	0	0	0	0
Arizona	789	1,244	-37.0%	NM	523	721	721	0	0	0	0
Colorado	867	865	0.3%	0	0	867	865	0	0	0	0
Idaho	471	478	-1.5%	160	165	312	313	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	429	428	0.2%	0	0	429	428	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1,167	1,162	0.4%	0	0	1,167	1,162	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	43,665	45,234	-3.5%	5,977	5,867	25,693	26,120	11,995	13,247	0	0
California	34,794	36,411	-4.4%	1,924	1,829	21,280	21,716	11,589	12,866	0	0
Oregon	4,891	4,854	0.8%	1,072	1,072	3,413	3,400	406	381	0	0
Washington	3,980	3,970	0.3%	2,980	2,966	1,000	1,004	0	0	0	0
Pacific Noncontiguous	941	741	27.0%	0	0	0	0	941	741	0	0
Alaska	941	741	27.0%	0	0	0	0	941	741	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	215,218	217,480	-1.0%	20,229	20,863	174,617	175,559	16,869	17,680	3,503	3,379

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	305	299	2.0%	0	0	292	286	13	13	0	0
Connecticut	108	102	5.4%	0	0	108	102	0	0	0	0
Maine	22	20	5.7%	0	0	8	8	13	13	0	0
Massachusetts	166	168	-0.8%	0	0	166	168	0	0	0	0
New Hampshire	10	9	6.9%	0	0	10	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	444	437	1.6%	0	0	360	353	84	83	0	0
New Jersey	116	111	4.8%	0	0	86	82	30	29	0	0
New York	162	158	2.5%	0	0	129	127	33	31	0	0
Pennsylvania	166	168	-1.4%	0	0	145	145	21	23	0	0
East North Central	22	21	4.3%	4	4	0	0	18	17	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	-15.0%	0	0	0	0	1	1	0	0
Michigan	17	16	6.6%	0	0	0	0	17	16	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	4	4	-1.7%	4	4	0	0	0	0	0	0
West North Central	57	57	0.6%	39	39	17	16	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	57	57	0.6%	39	39	17	16	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	490	476	3.0%	0	58	458	387	32	31	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	331	320	3.4%	0	58	331	262	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	68	72	-5.8%	0	0	68	72	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	91	84	8.8%	0	0	59	53	32	31	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	61	61	-0.1%	0	0	61	61	0	0	0	0
California	41	42	-2.8%	0	0	41	42	0	0	0	0
Oregon	8	7	6.3%	0	0	8	7	0	0	0	0
Washington	13	12	5.3%	0	0	13	12	0	0	0	0
Pacific Noncontiguous	44	35	24.0%	0	0	0	0	44	35	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	44	35	24.0%	0	0	0	0	44	35	0	0
U.S. Total	1,423	1,386	2.7%	42	101	1,188	1,105	192	181	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.

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	2,366	2,351	0.7%	0	0	2,254	2,219	113	132	0	0
Connecticut	842	816	3.1%	0	0	842	795	0	22	0	0
Maine	176	171	2.9%	0	0	63	61	113	110	0	0
Massachusetts	1,275	1,293	-1.3%	0	0	1,275	1,293	0	0	0	0
New Hampshire	73	71	3.7%	0	0	73	71	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	3,383	3,336	1.4%	0	0	2,704	2,652	679	684	0	0
New Jersey	879	836	5.1%	0	0	648	604	232	232	0	0
New York	1,230	1,231	-0.1%	0	0	952	958	278	272	0	0
Pennsylvania	1,274	1,269	0.4%	0	0	1,104	1,090	170	179	0	0
East North Central	165	161	2.4%	26	26	0	0	139	135	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	5	6	-13.0%	0	0	0	0	5	6	0	0
Michigan	133	128	3.8%	0	0	0	0	133	128	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	26	26	-1.0%	26	26	0	0	0	0	0	0
West North Central	421	410	2.6%	280	275	128	124	13	11	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	421	410	2.6%	280	275	128	124	13	11	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	3,693	3,367	9.7%	266	116	3,177	3,009	249	242	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	2,512	2,194	15.0%	266	116	2,246	2,078	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	546	533	2.4%	0	0	545	533	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	635	641	-0.9%	0	0	385	399	249	242	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	124.0%	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	124.0%	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	425	473	-10.0%	0	0	425	473	0	0	0	0
California	267	320	-17.0%	0	0	267	320	0	0	0	0
Oregon	61	59	3.5%	0	0	61	59	0	0	0	0
Washington	97	95	3.1%	0	0	97	95	0	0	0	0
Pacific Noncontiguous	288	255	13.0%	0	0	0	0	288	255	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	288	255	13.0%	0	0	0	0	288	255	0	0
U.S. Total	10,747	10,357	3.8%	572	417	8,688	8,479	1,481	1,458	5	2

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	5,099	5,635	-9.5%	771	808	3,790	4,127	NM	NM	536	683
Connecticut	413	216	91.0%	0	0	413	216	0	0	0	0
Maine	2,026	2,639	-23.0%	0	0	1,490	1,956	0	0	536	683
Massachusetts	NM	184	NM	0	0	NM	184	0	0	0	0
New Hampshire	2,025	1,963	3.1%	456	364	1,569	1,599	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	471	633	-26.0%	315	443	NM	172	NM	NM	0	0
Middle Atlantic	1,118	1,338	-16.0%	0	0	671	833	0	0	448	505
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	742	954	-22.0%	0	0	671	833	0	0	72	121
Pennsylvania	376	384	-2.1%	0	0	0	0	0	0	376	384
East North Central	2,568	3,176	-19.0%	493	575	1,158	1,498	0	0	918	1,103
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,709	1,711	-0.1%	0	NM	1,102	1,060	0	0	607	651
Ohio	186	256	-27.0%	0	0	NM	NM	0	0	131	198
Wisconsin	673	1,209	-44.0%	493	574	0	380	0	0	180	254
West North Central	1,102	1,015	8.5%	212	197	538	576	101	8	250	234
Iowa	0	0	10.0%	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	1,054	1,015	3.8%	212	197	538	576	53	7	250	234
Missouri	47	0	--	0	0	0	0	47	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	10,127	12,416	-18.0%	2,244	2,402	2,870	3,348	NM	NM	4,995	6,647
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	1,331	1,724	-23.0%	0	0	644	992	0	0	687	732
Georgia	2,273	3,960	-43.0%	0	0	645	708	0	0	1,628	3,253
Maryland	57	NM	NM	0	0	0	0	NM	NM	39	0
North Carolina	1,362	1,464	-6.9%	0	0	791	852	0	0	571	612
South Carolina	2,233	2,186	2.2%	357	382	389	432	0	0	1,487	1,373
Virginia	2,870	3,062	-6.3%	1,887	2,020	401	364	0	0	583	678
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,369	3,399	-0.9%	NM	NM	225	209	0	0	3,127	3,183
Alabama	2,093	2,124	-1.5%	NM	NM	225	209	0	0	1,851	1,908
Kentucky	153	113	35.0%	0	0	0	0	0	0	153	113
Mississippi	690	714	-3.4%	0	0	0	0	0	0	690	714
Tennessee	433	447	-3.1%	0	0	0	0	0	0	433	447
West South Central	3,987	3,827	4.2%	92	91	684	549	0	0	3,211	3,187
Arkansas	634	629	0.9%	0	0	0	0	0	0	634	629
Louisiana	1,796	1,779	1.0%	0	0	0	0	0	0	1,796	1,779
Oklahoma	100	102	-1.8%	0	0	0	0	0	0	100	102
Texas	1,456	1,317	11.0%	92	91	684	549	0	0	680	677
Mountain	819	750	9.3%	0	0	461	446	0	0	358	303
Arizona	325	287	13.0%	0	0	325	287	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	0	0
Idaho	391	353	11.0%	0	0	69	87	0	0	322	266
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	6,331	7,358	-14.0%	483	460	4,258	4,926	0	0	1,590	1,972
California	4,353	5,109	-15.0%	0	0	3,972	4,607	0	0	381	502
Oregon	536	834	-36.0%	0	0	NM	319	0	0	250	515
Washington	1,441	1,415	1.8%	483	460	0	0	0	0	958	955
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	34,520	38,913	-11.0%	4,312	4,539	14,655	16,512	122	45	15,432	17,817

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

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

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

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	40,504	41,560	-2.5%	6,251	6,060	29,978	29,894	NM	188	4,219	5,418
Connecticut	3,036	1,741	74.0%	0	0	3,036	1,717	0	NM	0	0
Maine	17,492	19,349	-9.6%	0	0	13,265	13,905	NM	NM	4,219	5,418
Massachusetts	1,188	1,371	-13.0%	0	0	1,188	1,371	0	0	0	0
New Hampshire	14,589	14,954	-2.4%	3,202	3,296	11,387	11,658	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	4,198	4,146	1.3%	3,049	2,765	1,101	1,242	NM	NM	0	0
Middle Atlantic	9,386	9,543	-1.6%	0	0	5,371	5,752	0	0	4,015	3,791
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	6,294	6,609	-4.8%	0	0	5,367	5,736	0	0	927	873
Pennsylvania	3,092	2,934	5.4%	0	0	NM	NM	0	0	3,088	2,918
East North Central	20,315	22,234	-8.6%	3,821	3,382	8,968	10,635	NM	7	7,526	8,210
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	12,162	12,237	-0.6%	NM	NM	7,527	7,497	0	7	4,635	4,732
Ohio	1,474	1,971	-25.0%	0	0	432	437	0	0	1,043	1,534
Wisconsin	6,679	8,026	-17.0%	3,821	3,380	1,009	2,701	NM	NM	1,849	1,945
West North Central	7,410	7,687	-3.6%	1,456	1,391	3,966	4,272	322	170	1,666	1,854
Iowa	NM	NM	NM	0	0	0	0	NM	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	7,158	7,530	-4.9%	1,456	1,391	3,966	4,272	70	13	1,666	1,854
Missouri	249	151	65.0%	0	0	0	0	249	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	78,436	92,967	-16.0%	14,733	14,849	19,859	26,987	148	149	43,695	50,982
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	9,419	15,666	-40.0%	0	0	4,002	10,004	0	0	5,417	5,663
Georgia	22,381	29,322	-24.0%	0	0	4,773	4,834	0	0	17,607	24,488
Maryland	567	570	-0.4%	0	0	0	0	148	149	419	421
North Carolina	10,253	11,007	-6.9%	0	0	6,165	6,350	0	0	4,088	4,657
South Carolina	16,643	16,645	0.0%	2,564	2,680	2,862	3,189	0	0	11,216	10,775
Virginia	19,173	19,758	-3.0%	12,169	12,168	2,057	2,610	0	0	4,947	4,979
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	25,663	25,784	-0.5%	NM	NM	1,555	1,465	0	0	24,028	24,296
Alabama	15,757	15,919	-1.0%	NM	NM	1,555	1,465	0	0	14,123	14,432
Kentucky	1,162	1,191	-2.5%	0	0	0	0	0	0	1,162	1,191
Mississippi	5,448	5,333	2.2%	0	1	0	0	0	0	5,448	5,333
Tennessee	3,295	3,341	-1.4%	0	0	0	0	0	0	3,295	3,341
West South Central	25,966	26,959	-3.7%	337	1,455	1,449	949	0	0	24,180	24,556
Arkansas	4,869	5,443	-11.0%	0	0	0	0	0	0	4,869	5,443
Louisiana	13,543	13,307	1.8%	0	0	0	0	0	0	13,543	13,307
Oklahoma	768	787	-2.4%	0	0	0	0	0	0	768	787
Texas	6,787	7,422	-8.6%	337	1,455	1,449	949	0	0	5,001	5,019
Mountain	6,512	6,271	3.8%	0	0	3,239	3,158	0	0	3,273	3,113
Arizona	2,247	2,120	6.0%	0	0	2,247	2,120	0	0	0	0
Colorado	472	505	-6.5%	0	0	472	505	0	0	0	0
Idaho	3,515	3,361	4.6%	0	0	520	533	0	0	2,996	2,828
Montana	277	285	-2.6%	0	0	0	0	0	0	277	285
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	45,187	52,289	-14.0%	3,118	2,864	29,958	35,479	0	0	12,112	13,947
California	30,883	36,296	-15.0%	0	0	27,912	33,172	0	0	2,970	3,124
Oregon	4,141	6,233	-34.0%	0	0	2,046	2,306	0	0	2,095	3,926
Washington	10,163	9,761	4.1%	3,118	2,864	0	0	0	0	7,046	6,896
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	259,379	285,295	-9.1%	29,795	30,022	104,343	118,591	527	514	124,714	136,167

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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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 - August 2016

Period	Electric Power Sector			Electric Utilities			Independent Power Producers		
	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum 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
August	162,563	34,672	780	130,766	20,427	590	31,797	14,245	191

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, August 2016 and 2015**

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	August 2016	August 2015	Percentage Change	August 2016	August 2015	Percentage Change	August 2016	August 2015	Percentage Change
New England	1,775	1,481	19.8%	4,506	3,454	30.5%	0	0	--
Connecticut	W	W	W	1,567	1,180	32.8%	0	0	--
Maine	0	0	--	W	W	W	0	0	--
Massachusetts	W	W	W	1,876	1,406	33.5%	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	--	43	48	-9.7%	0	0	--
Middle Atlantic	5,014	7,058	-29.0%	9,105	4,610	97.5%	W	W	W
New Jersey	785	959	-18.1%	681	678	0.5%	0	0	--
New York	W	479	W	7,193	2,681	168.3%	0	0	--
Pennsylvania	W	5,620	W	1,231	1,251	-1.6%	W	W	W
East North Central	37,034	33,965	9.0%	1,025	1,100	-6.8%	198	142	39.8%
Illinois	7,337	7,408	-1.0%	68	79	-13.0%	0	0	--
Indiana	10,160	9,763	4.1%	100	108	-7.9%	0	0	--
Michigan	5,521	6,689	-17.5%	299	320	-6.5%	W	W	W
Ohio	9,870	5,784	70.6%	352	363	-3.0%	W	W	W
Wisconsin	4,147	4,321	-4.0%	205	230	-10.7%	W	W	W
West North Central	29,774	25,169	18.3%	1,551	1,637	-5.3%	0	0	--
Iowa	7,525	4,716	59.6%	137	157	-12.7%	0	0	--
Kansas	4,219	3,631	16.2%	689	669	2.9%	0	0	--
Minnesota	3,853	4,202	-8.3%	119	127	-6.2%	0	0	--
Missouri	8,825	8,237	7.1%	389	406	-4.2%	0	0	--
Nebraska	W	2,390	W	135	203	-33.4%	0	0	--
North Dakota	1,743	W	W	37	41	-10.1%	0	0	--
South Dakota	W	W	W	45	34	32.4%	0	0	--
South Atlantic	26,977	27,748	-2.8%	11,815	11,460	3.1%	W	W	W
Delaware	W	W	W	427	225	89.8%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	5,021	6,145	-18.3%	5,102	5,616	-9.2%	W	107	W
Georgia	4,372	4,469	-2.2%	817	868	-5.8%	0	0	--
Maryland	795	1,529	-48.0%	796	757	5.1%	0	0	--
North Carolina	5,074	5,131	-1.1%	1,187	1,126	5.4%	0	0	--
South Carolina	W	5,272	W	688	715	-3.7%	0	0	--
Virginia	1,753	1,719	2.0%	2,651	2,033	30.4%	0	0	--
West Virginia	4,349	W	W	146	120	21.5%	W	W	W
East South Central	14,751	15,027	-1.8%	1,888	1,987	-5.0%	W	W	W
Alabama	4,186	3,743	11.8%	339	396	-14.3%	0	0	--
Kentucky	6,844	7,240	-5.5%	239	254	-5.6%	W	W	W
Mississippi	1,009	1,294	-22.0%	576	580	-0.5%	0	0	--
Tennessee	2,711	2,750	-1.4%	732	758	-3.4%	0	0	--
West South Central	24,707	24,546	0.7%	1,855	1,907	-2.7%	W	W	W
Arkansas	4,607	3,801	21.2%	W	W	W	0	0	--
Louisiana	2,301	3,391	-32.1%	431	444	-3.0%	W	W	W
Oklahoma	5,394	3,964	36.1%	W	W	W	0	0	--
Texas	12,406	13,390	-7.4%	1,155	1,195	-3.4%	0	0	--
Mountain	20,880	19,387	7.7%	364	403	-9.7%	W	W	W
Arizona	3,694	3,961	-6.7%	130	138	-5.2%	0	0	--
Colorado	5,002	5,581	-10.4%	107	W	W	0	0	--
Idaho	0	0	--	W	W	W	0	0	--
Montana	W	W	W	W	W	W	W	W	W
Nevada	755	1,066	-29.2%	14	15	-4.8%	0	0	--
New Mexico	W	W	W	W	36	W	0	0	--
Utah	5,151	3,645	41.3%	39	45	-14.0%	0	0	--
Wyoming	4,181	3,081	35.7%	31	34	-6.7%	0	0	--
Pacific Contiguous	W	W	W	328	331	-1.0%	0	0	--
California	0	0	--	W	W	W	0	0	--
Oregon	W	W	W	W	W	W	0	0	--
Washington	W	W	W	95	102	-6.9%	0	0	--
Pacific Noncontiguous	W	W	W	2,237	2,104	6.3%	0	0	--
Alaska	W	W	W	34	75	-55.3%	0	0	--
Hawaii	W	W	W	2,203	2,029	8.6%	0	0	--
U.S. Total	162,563	156,545	3.8%	34,672	28,993	19.6%	780	1,029	-24.2%

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

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

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

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

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

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

**Table 3.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke:
Electric Power Sector, by Census Division, August 2016 and 2015**

Census Division	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015
Coal (Thousand Tons)							
New England	1,775	1,481	19.8%	W	W	W	W
Middle Atlantic	5,014	7,058	-29.0%	0	0	5,014	7,058
East North Central	37,034	33,965	9.0%	23,309	24,037	13,725	9,928
West North Central	29,774	25,169	18.3%	29,774	25,169	0	0
South Atlantic	26,977	27,748	-2.8%	25,100	25,155	1,877	2,592
East South Central	14,751	15,027	-1.8%	14,751	15,027	0	0
West South Central	24,707	24,546	0.7%	16,564	15,618	8,143	8,928
Mountain	20,880	19,387	7.7%	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	162,563	156,545	3.8%	130,766	124,825	31,797	31,719
Petroleum Liquids (Thousand Barrels)							
New England	4,506	3,454	30.5%	678	664	3,828	2,789
Middle Atlantic	9,105	4,610	97.5%	1,948	1,725	7,157	2,885
East North Central	1,025	1,100	-6.8%	729	799	296	301
West North Central	1,551	1,637	-5.3%	1,529	1,612	22	26
South Atlantic	11,815	11,460	3.1%	9,596	9,467	2,219	1,993
East South Central	1,888	1,987	-5.0%	W	W	W	W
West South Central	1,855	1,907	-2.7%	1,367	1,406	487	501
Mountain	364	403	-9.7%	W	374	W	29
Pacific Contiguous	328	331	-1.0%	227	W	102	W
Pacific Noncontiguous	2,237	2,104	6.3%	W	W	W	W
U.S. Total	34,672	28,993	19.6%	20,427	20,162	14,245	8,831
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	W	W	W	0	0	W	W
East North Central	198	142	39.8%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	W	107	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	780	1,029	-24.2%	W	891	W	138

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 - August 2016

Period	Electric Power Sector			
	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
August	69,872	88,238	4,453	162,563

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 - August 2016

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)		
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
August	1,236,545	63,913	2.11	40.86	1.32	85.1	9,012	1,475	9.43	57.62	0.51	60.5
Year to Date												
2014	10,948,443	563,019	2.36	45.94	1.32	93.3	113,205	18,757	21.56	130.23	0.45	68.9
2015	9,996,297	516,154	2.25	43.59	1.31	96.6	97,084	16,045	12.70	77.02	0.52	64.0
2016	7,907,487	407,874	2.13	41.28	1.37	88.9	66,890	11,043	9.02	54.69	0.44	66.4
Rolling 12 Months Ending in August												
2015	15,642,577	807,694	2.29	44.46	1.31	100.6	156,301	25,801	W	W	0.51	79.5
2016	12,789,040	661,587	2.14	41.46	1.34	96.8	118,569	19,510	9.09	55.26	0.46	80.6

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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

COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.

PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

- Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary.

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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 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2006 - August 2016 (continued)

Period	Petroleum Coke							Natural Gas					All Fossil Fuels
	Receipts		Average Cost			Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost			Average Cost
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	(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	
August	11,032	398	1.75	48.48	5.42	78.9	1,204,561	1,162,659	2.96	3.06	90.8	2.53	
Year to Date													
2014	95,195	3,360	2.02	57.40	5.64	84.8	5,782,106	5,623,660	5.36	5.51	89.6	3.44	
2015	89,337	3,147	1.95	55.31	5.19	82.1	6,809,384	6,586,602	3.43	3.54	90.0	2.75	
2016	78,043	2,781	1.43	40.06	5.36	75.0	7,369,046	7,128,969	2.70	2.79	90.0	2.41	
Rolling 12 Months Ending in August													
2015	141,452	4,982	1.93	54.87	5.27	89.5	9,706,564	9,394,365	3.68	3.80	89.8	W	
2016	124,354	4,413	W	W	5.37	82.9	10,738,369	10,385,537	2.74	2.83	89.8	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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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2006 - August 2016

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)		
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
August	920,974	47,335	2.17	42.28	1.19	87.6	6,713	1,086	9.14	56.53	0.51	65.8
Year to Date												
2014	7,909,029	402,447	2.38	46.72	1.22	93.0	64,226	10,603	21.54	130.50	0.41	72.1
2015	7,548,694	387,665	2.27	44.15	1.20	100.1	60,918	9,998	12.35	75.29	0.47	71.4
2016	5,992,452	307,107	2.17	42.38	1.24	91.8	50,463	8,248	8.85	54.17	0.41	74.2
Rolling 12 Months Ending in August												
2015	11,704,475	599,947	2.32	45.29	1.20	103.5	95,050	15,555	13.95	85.28	0.47	81.8
2016	9,663,487	496,497	2.19	42.59	1.21	99.9	79,449	12,974	8.94	54.75	0.42	79.9

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

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Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2006 - August 2016 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
	(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
August	9,306	335	1.62	45.01	5.45	99.4	569,260	549,200	3.23	3.34	94.9	2.60
Year to Date												
2014	80,336	2,824	1.95	55.40	5.66	116.7	2,609,117	2,543,078	5.43	5.57	96.8	3.23
2015	75,573	2,655	1.87	53.13	5.16	121.0	3,118,782	3,018,718	3.71	3.83	95.4	2.73
2016	67,671	2,403	1.28	36.13	5.34	98.1	3,521,131	3,405,463	2.97	3.07	95.6	2.49
Rolling 12 Months Ending in August												
2015	119,030	4,180	1.83	52.26	5.24	129.9	4,386,214	4,248,236	3.97	4.10	95.7	2.83
2016	107,749	3,807	1.40	39.54	5.35	112.6	5,064,699	4,897,671	3.02	3.13	95.3	2.50

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

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)		
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
August	301,966	15,952	1.90	35.92	1.73	80.5	2,242	380	10.26	60.55	0.48	65.8
Year to Date												
2014	2,849,870	151,795	2.28	42.80	1.61	96.7	47,378	7,894	21.69	130.37	0.46	76.8
2015	2,318,355	122,792	2.17	40.88	1.64	91.5	33,019	5,531	13.31	79.87	0.48	62.4
2016	1,807,445	95,917	1.95	36.73	1.83	84.5	15,270	2,605	9.57	56.17	0.47	65.5
Rolling 12 Months Ending in August												
2015	3,712,434	197,596	2.18	40.92	1.63	97.0	57,415	9,617	14.68	87.90	0.47	92.1
2016	2,957,152	157,565	1.97	36.92	1.75	93.1	36,755	6,148	W	W	0.45	108.6

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

Notes:
 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 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2006 - August 2016 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
	(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
August	1,509	55	W	W	5.24	77.2	568,935	549,400	2.62	2.72	94.2	W
Year to Date												
2014	9,428	335	2.47	69.98	5.39	70.6	2,670,781	2,594,054	5.41	5.57	92.4	W
2015	9,440	336	2.43	68.22	5.13	62.5	3,198,811	3,092,378	3.17	3.28	93.8	W
2016	7,741	281	2.50	68.85	5.40	62.1	3,350,682	3,241,530	2.40	2.48	93.6	W
Rolling 12 Months Ending in August												
2015	13,793	489	W	W	5.16	65.1	4,582,569	4,432,996	3.38	3.50	93.6	W
2016	12,852	468	W	W	5.44	67.2	4,929,135	4,766,309	2.42	2.50	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.

- Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary.

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- See the Technical Notes for fuel conversion factors.

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

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

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

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)		
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
August	92	4	W	W	3.09	7.7	0	0	--	--	--	0.0
Year to Date												
2014	2,984	133	W	W	2.39	17.2	0	0	--	--	--	0.0
2015	1,890	84	2.90	65.03	2.42	14.2	0	0	--	--	--	0.0
2016	526	23	W	W	2.95	4.8	0	0	--	--	--	0.0
Rolling 12 Months Ending in August												
2015	3,002	133	W	W	2.55	15.0	0	0	--	--	--	0.0
2016	1,074	47	W	W	2.96	6.4	0	0	--	--	--	0.0

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Notes:

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

COAL - includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas. Prior to 2011, synthesis gas was included in the category of Other Gases.

PETROLEUM LIQUIDS - includes distillate fuel oil and residual fuel oil. Prior to 2013, petroleum liquids included distillate fuel oil, residual fuel oil, kerosene, jet fuel, waste oil, and, beginning in 2011, propane. Prior to 2011, propane was included in the category of Other Gases.

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- See the Technical Notes for fuel conversion factors.

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

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 - August 2016 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
	(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
August	0	0	--	--	--	0.0	802	765	W	W	6.3	W
Year to Date												
2014	0	0	--	--	--	0.0	3,566	3,532	W	W	4.4	W
2015	0	0	--	--	--	0.0	4,038	3,972	W	W	4.7	W
2016	0	0	--	--	--	0.0	5,617	5,461	W	W	6.3	W
Rolling 12 Months Ending in August												
2015	0	0	--	--	--	0.0	6,321	6,235	W	W	5.1	W
2016	0	0	--	--	--	0.0	8,078	7,860	W	W	6.0	W

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Notes:

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PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.

NATURAL GAS - includes natural gas only. Prior to 2011, includes Other Gases.

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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2006 - August 2016

Period	Coal						Petroleum Liquids					
	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption	Receipts		Average Cost		Average Sulfur Percent by Weight	Percentage of Consumption
	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)			(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)		
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
August	13,513	622	W	W	1.29	50.4	58	10	10.89	65.04	0.55	5.2
Year to Date												
2014	186,559	8,645	W	W	1.33	67.0	1,601	259	18.67	115.22	1.41	15.2
2015	127,358	5,612	2.84	64.42	1.55	46.2	3,147	516	13.55	82.66	1.79	30.5
2016	107,064	4,827	W	W	1.46	46.8	1,156	189	9.40	57.37	1.27	14.0
Rolling 12 Months Ending in August												
2015	222,666	10,018	W	W	1.45	54.6	3,836	629	W	W	1.75	26.6
2016	167,326	7,478	W	W	1.51	46.2	2,364	387	W	W	1.43	19.0

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

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Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2006 - August 2016 (continued)

Period	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
	(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
August	217	8	W	W	5.81	8.4	65,565	63,294	W	W	59.2	W
Year to Date												
2014	5,431	200	W	W	5.79	18.9	498,641	482,996	W	W	63.4	W
2015	4,324	156	W	W	5.93	14.3	487,753	471,534	W	W	61.0	W
2016	2,630	96	W	W	5.87	12.1	491,617	476,515	W	W	58.9	W
Rolling 12 Months Ending in August												
2015	8,629	314	W	W	5.90	19.9	731,459	706,898	W	W	61.1	W
2016	3,753	137	W	W	5.90	11.1	736,457	713,697	W	W	59.2	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 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, August 2016 and 2015
(Thousand Tons)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	82	117	-30.0%	29	44	52	72	0	0	1	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	6	5	13.0%	0	0	4	4	0	0	1	1
Massachusetts	48	68	-30.0%	0	0	48	68	0	0	0	0
New Hampshire	29	44	-35.0%	29	44	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,322	2,512	-7.6%	0	0	2,289	2,485	0	0	33	26
New Jersey	76	71	7.7%	0	0	76	71	0	0	0	0
New York	80	92	-13.0%	0	0	55	75	0	0	24	16
Pennsylvania	2,166	2,349	-7.8%	0	0	2,157	2,339	0	0	9	10
East North Central	13,107	15,675	-16.0%	7,885	9,808	5,044	5,633	0	8	178	227
Illinois	3,507	4,884	-28.0%	579	1,122	2,786	3,604	0	0	142	158
Indiana	2,591	2,985	-13.0%	2,446	2,725	145	260	0	0	0	0
Michigan	1,943	2,471	-21.0%	1,925	2,415	18	48	0	8	0	0
Ohio	3,056	2,939	4.0%	948	1,206	2,095	1,721	0	0	13	13
Wisconsin	2,009	2,396	-16.0%	1,986	2,340	0	0	0	0	23	56
West North Central	11,765	12,083	-2.6%	11,628	11,954	0	0	4	0	133	130
Iowa	1,574	1,955	-19.0%	1,441	1,825	0	0	0	0	133	130
Kansas	1,562	1,692	-7.6%	1,562	1,692	0	0	0	0	0	0
Minnesota	1,237	1,063	16.0%	1,237	1,063	0	0	0	0	0	0
Missouri	3,698	3,813	-3.0%	3,694	3,813	0	0	4	0	0	0
Nebraska	1,316	1,426	-7.8%	1,316	1,426	0	0	0	0	0	0
North Dakota	2,236	1,995	12.0%	2,236	1,995	0	0	0	0	0	0
South Dakota	142	139	2.0%	142	139	0	0	0	0	0	0
South Atlantic	9,251	10,817	-14.0%	8,093	9,403	1,096	1,298	0	0	62	115
Delaware	12	0	--	0	0	12	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,656	2,008	-18.0%	1,619	1,900	37	108	0	0	0	0
Georgia	1,651	1,880	-12.0%	1,641	1,868	0	0	0	0	10	12
Maryland	484	758	-36.0%	0	0	467	735	0	0	17	23
North Carolina	1,364	1,586	-14.0%	1,364	1,586	0	0	0	0	0	0
South Carolina	777	1,222	-36.0%	769	1,201	0	0	0	0	8	21
Virginia	767	690	11.0%	696	617	45	46	0	0	26	27
West Virginia	2,540	2,673	-5.0%	2,005	2,232	535	409	0	0	0	33
East South Central	6,794	7,052	-3.7%	6,362	6,599	327	326	0	0	105	127
Alabama	1,751	1,837	-4.7%	1,751	1,837	0	0	0	0	0	0
Kentucky	3,439	3,565	-3.5%	3,439	3,565	0	0	0	0	0	0
Mississippi	532	563	-5.6%	205	237	327	326	0	0	0	0
Tennessee	1,073	1,087	-1.3%	967	959	0	0	0	0	105	127
West South Central	11,126	12,878	-14.0%	5,379	6,740	5,741	6,125	0	0	5	13
Arkansas	1,009	1,644	-39.0%	806	1,451	197	181	0	0	5	13
Louisiana	476	1,118	-57.0%	378	739	98	378	0	0	0	0
Oklahoma	1,178	1,435	-18.0%	1,081	1,331	98	104	0	0	0	0
Texas	8,462	8,682	-2.5%	3,114	3,220	5,348	5,462	0	0	0	0
Mountain	8,860	9,241	-4.1%	7,817	8,344	995	888	0	0	49	10
Arizona	1,598	2,053	-22.0%	1,598	2,053	0	0	0	0	0	0
Colorado	1,613	1,633	-1.2%	1,613	1,633	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	935	828	13.0%	0	0	935	828	0	0	0	0
Nevada	109	131	-17.0%	49	71	60	60	0	0	0	0
New Mexico	851	1,090	-22.0%	851	1,090	0	0	0	0	0	0
Utah	1,286	1,294	-0.6%	1,238	1,284	0	0	0	0	49	10
Wyoming	2,468	2,213	12.0%	2,468	2,213	0	0	0	0	0	0
Pacific Contiguous	530	562	-5.8%	127	166	349	343	0	0	55	54
California	55	54	2.0%	0	0	0	0	0	0	55	54
Oregon	127	166	-24.0%	127	166	0	0	0	0	0	0
Washington	349	343	1.6%	0	0	349	343	0	0	0	0
Pacific Noncontiguous	76	74	1.8%	16	15	60	59	0	0	0	0
Alaska	16	15	3.6%	16	15	0	0	0	0	0	0
Hawaii	60	59	1.4%	0	0	60	59	0	0	0	0
U.S. Total	63,913	71,012	-10.0%	47,335	53,072	15,952	17,230	4	8	622	703

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

Notes:
 See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
 Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
 Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	886	1,489	-40.0%	102	449	775	1,016	0	0	10	24
Connecticut	85	251	-66.0%	0	0	85	251	0	0	0	0
Maine	54	77	-30.0%	0	0	44	52	0	0	10	24
Massachusetts	646	713	-9.4%	0	0	646	713	0	0	0	0
New Hampshire	102	449	-77.0%	102	449	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	13,207	19,409	-32.0%	0	0	12,944	19,118	0	0	262	291
New Jersey	423	636	-34.0%	0	0	423	636	0	0	0	0
New York	330	674	-51.0%	0	0	143	471	0	0	186	203
Pennsylvania	12,454	18,099	-31.0%	0	0	12,378	18,011	0	0	76	87
East North Central	88,875	115,027	-23.0%	54,992	71,700	32,314	41,481	0	27	1,569	1,819
Illinois	25,090	36,550	-31.0%	6,488	7,545	17,464	27,712	0	0	1,138	1,293
Indiana	19,157	24,127	-21.0%	17,922	22,238	1,235	1,889	0	0	0	0
Michigan	13,120	18,269	-28.0%	12,967	18,028	143	193	0	27	10	21
Ohio	19,830	20,734	-4.4%	6,208	8,885	13,472	11,687	0	0	150	162
Wisconsin	11,677	15,348	-24.0%	11,406	15,005	0	0	0	0	271	343
West North Central	75,432	91,576	-18.0%	74,547	90,647	0	0	23	57	862	872
Iowa	11,179	14,414	-22.0%	10,318	13,542	0	0	0	0	862	872
Kansas	9,031	12,165	-26.0%	9,031	12,165	0	0	0	0	0	0
Minnesota	7,389	11,569	-36.0%	7,389	11,554	0	0	0	14	0	0
Missouri	23,566	28,067	-16.0%	23,543	28,025	0	0	23	43	0	0
Nebraska	8,489	9,086	-6.6%	8,489	9,086	0	0	0	0	0	0
North Dakota	14,866	15,720	-5.4%	14,866	15,720	0	0	0	0	0	0
South Dakota	911	554	64.0%	911	554	0	0	0	0	0	0
South Atlantic	61,861	75,342	-18.0%	54,262	65,832	7,004	8,552	0	0	596	959
Delaware	184	152	21.0%	0	0	184	152	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	9,779	13,534	-28.0%	9,553	13,058	226	476	0	0	0	0
Georgia	10,995	13,515	-19.0%	10,903	13,374	0	0	0	0	93	141
Maryland	3,007	4,636	-35.0%	0	0	2,854	4,424	0	0	154	212
North Carolina	7,084	10,094	-30.0%	7,084	10,094	0	0	0	0	0	0
South Carolina	5,912	8,176	-28.0%	5,837	8,056	0	0	0	0	74	120
Virginia	5,276	5,260	0.3%	4,786	4,558	284	474	0	0	206	228
West Virginia	19,624	19,976	-1.8%	16,100	16,693	3,455	3,025	0	0	69	258
East South Central	43,185	51,709	-16.0%	40,270	48,454	2,051	2,257	0	0	864	998
Alabama	10,769	13,710	-21.0%	10,769	13,710	0	0	0	0	0	0
Kentucky	23,972	27,267	-12.0%	23,972	27,267	0	0	0	0	0	0
Mississippi	2,627	3,559	-26.0%	576	1,301	2,051	2,257	0	0	0	0
Tennessee	5,818	7,174	-19.0%	4,953	6,176	0	0	0	0	864	998
West South Central	64,858	88,217	-26.0%	31,641	46,674	33,177	41,485	0	0	40	59
Arkansas	7,919	10,134	-22.0%	6,545	8,391	1,333	1,685	0	0	40	59
Louisiana	4,211	7,425	-43.0%	3,264	4,274	947	3,151	0	0	0	0
Oklahoma	6,528	12,085	-46.0%	5,838	11,277	690	808	0	0	0	0
Texas	46,200	58,573	-21.0%	15,993	22,732	30,207	35,842	0	0	0	0
Mountain	56,281	69,395	-19.0%	50,530	62,983	5,564	6,252	0	0	187	160
Arizona	9,340	14,567	-36.0%	9,340	14,567	0	0	0	0	0	0
Colorado	10,211	12,953	-21.0%	10,211	12,953	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	5,240	5,920	-11.0%	0	0	5,240	5,920	0	0	0	0
Nevada	577	862	-33.0%	253	530	324	332	0	0	0	0
New Mexico	6,847	8,195	-16.0%	6,847	8,195	0	0	0	0	0	0
Utah	8,622	10,175	-15.0%	8,435	10,015	0	0	0	0	187	160
Wyoming	15,443	16,723	-7.7%	15,443	16,723	0	0	0	0	0	0
Pacific Contiguous	2,612	3,526	-26.0%	626	879	1,548	2,215	0	0	438	432
California	438	432	1.4%	0	0	0	0	0	0	438	432
Oregon	626	879	-29.0%	626	879	0	0	0	0	0	0
Washington	1,548	2,215	-30.0%	0	0	1,548	2,215	0	0	0	0
Pacific Noncontiguous	678	463	46.0%	138	48	539	415	0	0	0	0
Alaska	138	48	188.0%	138	48	0	0	0	0	0	0
Hawaii	539	415	30.0%	0	0	539	415	0	0	0	0
U.S. Total	407,874	516,154	-21.0%	307,107	387,665	95,917	122,792	23	84	4,827	5,612

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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:
 See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
 Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
 Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

**Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, August 2016 and 2015
(Thousand Barrels)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	33	217	-85.0%	1	1	32	216	0	0	0	0
Connecticut	1	15	-91.0%	0	0	1	15	0	0	0	0
Maine	1	1	85.0%	0	0	1	1	0	0	0	0
Massachusetts	30	200	-85.0%	0	0	30	200	0	0	0	0
New Hampshire	1	1	-49.0%	1	1	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	82	82	0.4%	33	4	48	77	0	0	1	0
New Jersey	1	3	-78.0%	0	0	1	3	0	0	0	0
New York	47	11	324.0%	33	4	13	7	0	0	1	0
Pennsylvania	35	68	-49.0%	0	0	34	68	0	0	0	0
East North Central	85	72	17.0%	52	44	32	25	0	0	1	3
Illinois	8	7	24.0%	1	3	8	4	0	0	0	0
Indiana	20	14	40.0%	20	14	0	0	0	0	0	0
Michigan	16	18	-10.0%	15	17	0	0	0	0	0	0
Ohio	31	30	3.7%	6	9	24	19	0	0	1	2
Wisconsin	10	4	159.0%	10	1	0	2	0	0	0	0
West North Central	14	24	-41.0%	14	24	0	0	0	0	0	0
Iowa	2	2	5.8%	2	2	0	0	0	0	0	0
Kansas	0	2	-100.0%	0	2	0	0	0	0	0	0
Minnesota	2	1	79.0%	2	1	0	0	0	0	0	0
Missouri	7	12	-38.0%	7	12	0	0	0	0	0	0
Nebraska	1	2	-59.0%	1	2	0	0	0	0	0	0
North Dakota	2	3	-30.0%	2	3	0	0	0	0	0	0
South Dakota	0	2	-100.0%	0	2	0	0	0	0	0	0
South Atlantic	418	415	0.8%	352	308	61	89	0	0	5	18
Delaware	2	4	-50.0%	0	0	2	4	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	228	48	375.0%	228	47	0	1	0	0	0	0
Georgia	12	8	42.0%	11	5	0	0	0	0	1	3
Maryland	46	75	-39.0%	0	0	46	75	0	0	0	0
North Carolina	24	48	-50.0%	24	48	0	0	0	0	0	0
South Carolina	11	22	-50.0%	9	9	0	0	0	0	2	13
Virginia	74	193	-62.0%	59	188	13	3	0	0	2	1
West Virginia	21	16	30.0%	21	10	0	6	0	0	0	0
East South Central	32	23	38.0%	30	23	0	0	0	0	2	0
Alabama	2	4	-52.0%	2	4	0	0	0	0	0	0
Kentucky	12	11	8.5%	12	11	0	0	0	0	0	0
Mississippi	2	1	76.0%	2	1	0	0	0	0	0	0
Tennessee	16	7	121.0%	14	7	0	0	0	0	2	0
West South Central	18	5	234.0%	8	3	10	2	0	0	0	0
Arkansas	2	0	--	2	0	0	0	0	0	0	0
Louisiana	0	0	-100.0%	0	0	0	0	0	0	0	0
Oklahoma	1	0	--	1	0	0	0	0	0	0	0
Texas	15	5	197.0%	5	3	10	2	0	0	0	0
Mountain	36	32	10.0%	30	31	6	2	0	0	0	0
Arizona	8	9	-17.0%	8	9	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	5	1	591.0%	0	0	5	1	0	0	0	0
Nevada	2	4	-53.0%	1	3	1	1	0	0	0	0
New Mexico	8	10	-15.0%	8	10	0	0	0	0	0	0
Utah	1	1	-0.9%	1	1	0	0	0	0	0	0
Wyoming	11	7	57.0%	11	7	0	0	0	0	0	0
Pacific Contiguous	1	1	25.0%	0	0	1	1	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	1	25.0%	0	0	1	1	0	0	0	0
Pacific Noncontiguous	757	671	13.0%	567	507	190	163	0	0	0	0
Alaska	0	4	-93.0%	0	4	0	0	0	0	0	0
Hawaii	757	666	14.0%	567	503	190	163	0	0	0	0
U.S. Total	1,475	1,542	-4.3%	1,086	946	380	575	0	0	10	21

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

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

**Table 4.7.B. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) August 2016 and 2015
(Thousand Barrels)**

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	234	1,457	-84.0%	73	62	158	1,363	0	0	3	32
Connecticut	27	301	-91.0%	0	0	27	301	0	0	0	0
Maine	18	487	-96.0%	0	0	15	455	0	0	3	32
Massachusetts	173	578	-70.0%	65	5	108	572	0	0	0	0
New Hampshire	7	80	-91.0%	7	57	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	501	2,847	-82.0%	49	1,004	441	1,838	0	0	10	5
New Jersey	9	66	-86.0%	0	0	9	66	0	0	0	0
New York	247	2,025	-88.0%	49	1,004	190	1,016	0	0	7	5
Pennsylvania	245	756	-68.0%	0	0	242	756	0	0	3	0
East North Central	641	768	-17.0%	403	539	217	200	0	0	21	29
Illinois	87	62	40.0%	17	20	69	42	0	0	0	0
Indiana	133	204	-35.0%	133	204	0	0	0	0	0	0
Michigan	125	131	-4.4%	120	123	0	0	0	0	6	9
Ohio	262	328	-20.0%	99	154	148	155	0	0	15	19
Wisconsin	34	43	-20.0%	34	38	0	4	0	0	0	1
West North Central	224	263	-15.0%	224	263	0	0	0	0	0	0
Iowa	58	45	29.0%	58	45	0	0	0	0	0	0
Kansas	26	54	-51.0%	26	54	0	0	0	0	0	0
Minnesota	16	16	-2.1%	16	16	0	0	0	0	0	0
Missouri	74	105	-29.0%	74	105	0	0	0	0	0	0
Nebraska	3	2	65.0%	3	2	0	0	0	0	0	0
North Dakota	44	34	31.0%	44	34	0	0	0	0	0	0
South Dakota	2	8	-72.0%	2	8	0	0	0	0	0	0
South Atlantic	2,828	3,812	-26.0%	2,236	2,643	443	722	0	0	149	448
Delaware	49	65	-24.0%	0	0	49	65	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	811	471	72.0%	806	468	5	4	0	0	0	0
Georgia	199	222	-10.0%	131	106	31	75	0	0	38	41
Maryland	169	276	-39.0%	0	0	169	276	0	0	0	0
North Carolina	221	442	-50.0%	160	409	61	33	0	0	0	0
South Carolina	207	365	-43.0%	114	266	0	7	0	0	93	92
Virginia	1,027	1,838	-44.0%	880	1,270	129	253	0	0	18	315
West Virginia	145	133	9.0%	145	125	0	8	0	0	0	0
East South Central	321	395	-19.0%	304	366	10	27	0	0	6	2
Alabama	53	87	-39.0%	42	60	10	27	0	0	0	0
Kentucky	128	126	1.9%	128	126	0	0	0	0	0	0
Mississippi	20	45	-55.0%	20	45	0	0	0	0	0	0
Tennessee	120	137	-13.0%	114	135	0	0	0	0	6	2
West South Central	193	243	-21.0%	140	166	52	77	0	0	0	0
Arkansas	48	55	-12.0%	36	41	12	14	0	0	0	0
Louisiana	50	82	-39.0%	48	64	2	18	0	0	0	0
Oklahoma	4	2	124.0%	4	2	0	0	0	0	0	0
Texas	90	105	-14.0%	53	60	38	45	0	0	0	0
Mountain	241	263	-8.3%	221	250	20	13	0	0	0	0
Arizona	67	75	-11.0%	67	75	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	17	9	96.0%	0	0	17	9	0	0	0	0
Nevada	18	23	-23.0%	14	19	3	4	0	0	0	0
New Mexico	62	83	-25.0%	62	83	0	0	0	0	0	0
Utah	17	23	-25.0%	17	23	0	0	0	0	0	0
Wyoming	51	46	11.0%	51	46	0	0	0	0	0	0
Pacific Contiguous	10	8	22.0%	0	1	10	7	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	10	7	38.0%	0	0	10	7	0	0	0	0
Pacific Noncontiguous	5,851	5,988	-2.3%	4,599	4,703	1,252	1,285	0	0	0	0
Alaska	4	10	-62.0%	4	10	0	0	0	0	0	0
Hawaii	5,847	5,978	-2.2%	4,595	4,693	1,252	1,285	0	0	0	0
U.S. Total	11,043	16,045	-31.0%	8,248	9,998	2,605	5,531	0	0	189	516

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

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 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	110	124	-11.0%	55	69	55	45	0	0	0	9
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	42	-100.0%	0	42	0	0	0	0	0	0
Michigan	46	26	79.0%	46	26	0	0	0	0	0	0
Ohio	55	45	21.0%	0	0	55	45	0	0	0	0
Wisconsin	9	11	-18.0%	9	2	0	0	0	0	0	9
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	132	65	102.0%	124	65	0	0	0	0	8	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	124	65	90.0%	124	65	0	0	0	0	0	0
Georgia	8	0	--	0	0	0	0	0	0	8	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	37	-100.0%	0	37	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	37	-100.0%	0	37	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	157	170	-7.9%	157	170	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	157	170	-7.9%	157	170	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	398	396	0.4%	335	342	55	45	0	0	8	9

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

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 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	717	898	-20.0%	417	506	281	336	0	0	18	56
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	162	253	-36.0%	162	253	0	0	0	0	0	0
Michigan	227	249	-8.8%	227	236	0	13	0	0	0	0
Ohio	281	323	-13.0%	0	0	281	323	0	0	0	0
Wisconsin	47	73	-35.0%	29	17	0	0	0	0	18	56
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	1,041	731	42.0%	963	631	0	0	0	0	78	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	963	631	53.0%	963	631	0	0	0	0	0	0
Georgia	78	100	-22.0%	0	0	0	0	0	0	78	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	396	-88.0%	47	396	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	47	396	-88.0%	47	396	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	975	1,122	-13.0%	975	1,122	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	975	1,122	-13.0%	975	1,122	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	2,781	3,147	-12.0%	2,403	2,655	281	336	0	0	96	156

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 See the Technical Notes for fuel conversion factors.

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

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

Census Division and State	Electric Power Sector											
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector		
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	
New England	45,695	47,269	-3.3%	642	814	45,053	46,438	0	0	0	18	
Connecticut	11,645	11,917	-2.3%	0	0	11,645	11,917	0	0	0	0	
Maine	3,579	1,891	89.0%	0	0	3,579	1,873	0	0	0	18	
Massachusetts	20,250	21,827	-7.2%	528	642	19,722	21,185	0	0	0	0	
New Hampshire	4,585	4,624	-0.9%	114	172	4,471	4,452	0	0	0	0	
Rhode Island	5,637	7,011	-20.0%	0	0	5,637	7,011	0	0	0	0	
Vermont	0	0	--	0	0	0	0	0	0	0	0	
Middle Atlantic	152,156	120,611	26.0%	15,205	11,963	136,743	108,509	0	0	209	138	
New Jersey	38,991	26,773	46.0%	0	0	38,991	26,773	0	0	0	0	
New York	58,248	48,886	19.0%	15,205	11,963	42,980	36,858	0	0	63	65	
Pennsylvania	54,918	44,951	22.0%	0	0	54,772	44,878	0	0	146	73	
East North Central	99,323	56,511	76.0%	47,486	24,157	50,638	31,415	627	503	572	436	
Illinois	19,481	6,838	185.0%	2,371	839	17,106	5,997	0	0	4	2	
Indiana	14,811	9,198	61.0%	12,415	7,510	2,396	1,688	0	0	0	0	
Michigan	28,819	13,148	119.0%	13,995	2,829	13,836	9,516	627	503	362	300	
Ohio	22,665	19,032	19.0%	7,066	5,602	15,509	13,366	0	0	91	64	
Wisconsin	13,547	8,295	63.0%	11,640	7,376	1,792	849	0	0	116	71	
West North Central	23,368	17,402	34.0%	19,264	14,278	3,966	2,947	138	177	0	0	
Iowa	4,168	3,340	25.0%	4,168	3,340	0	0	0	0	0	0	
Kansas	2,257	1,722	31.0%	2,257	1,722	0	0	0	0	0	0	
Minnesota	9,525	5,828	63.0%	7,404	4,655	2,119	1,173	2	0	0	0	
Missouri	5,868	5,030	17.0%	3,885	3,079	1,847	1,774	136	177	0	0	
Nebraska	627	629	-0.4%	627	629	0	0	0	0	0	0	
North Dakota	237	134	78.0%	237	134	0	0	0	0	0	0	
South Dakota	686	720	-4.6%	686	720	0	0	0	0	0	0	
South Atlantic	263,026	225,192	17.0%	206,789	178,947	52,897	43,174	0	0	3,340	3,072	
Delaware	7,660	5,918	29.0%	0	0	6,505	4,721	0	0	1,156	1,197	
District of Columbia	0	0	--	0	0	0	0	0	0	0	0	
Florida	118,218	110,141	7.3%	109,290	104,931	8,928	5,210	0	0	0	0	
Georgia	42,198	37,105	14.0%	31,982	22,728	9,531	13,185	0	0	685	1,191	
Maryland	9,970	4,617	116.0%	0	0	9,795	4,586	0	0	175	31	
North Carolina	29,945	24,811	21.0%	24,810	21,140	5,135	3,671	0	0	0	0	
South Carolina	14,446	13,341	8.3%	12,003	12,174	2,318	1,144	0	0	125	23	
Virginia	39,400	27,412	44.0%	28,356	17,887	10,359	8,895	0	0	685	630	
West Virginia	1,189	1,848	-36.0%	348	86	326	1,762	0	0	515	0	
East South Central	98,888	78,720	26.0%	63,186	46,813	34,554	31,263	0	0	1,149	644	
Alabama	41,237	35,921	15.0%	10,397	8,847	30,840	27,074	0	0	0	0	
Kentucky	7,488	4,790	56.0%	6,248	3,906	1,240	884	0	0	0	0	
Mississippi	38,600	31,371	23.0%	36,126	28,066	2,474	3,305	0	0	0	0	
Tennessee	11,564	6,638	74.0%	10,415	5,993	0	0	0	0	1,149	644	
West South Central	303,943	307,398	-1.1%	98,367	95,029	151,334	156,807	0	0	54,243	55,562	
Arkansas	15,856	12,140	31.0%	5,499	3,730	10,171	8,094	0	0	186	316	
Louisiana	50,045	51,451	-2.7%	28,781	30,234	2,661	3,247	0	0	18,602	17,969	
Oklahoma	29,445	28,336	3.9%	21,053	17,827	8,392	10,509	0	0	0	0	
Texas	208,597	215,471	-3.2%	43,033	43,239	130,109	134,957	0	0	35,455	37,276	
Mountain	81,928	85,062	-3.7%	59,651	62,183	22,223	22,824	0	0	54	55	
Arizona	36,059	38,105	-5.4%	18,974	20,439	17,086	17,666	0	0	0	0	
Colorado	9,471	9,343	1.4%	8,107	7,855	1,364	1,489	0	0	0	0	
Idaho	3,106	3,075	1.0%	1,898	2,077	1,208	998	0	0	0	0	
Montana	0	0	--	0	0	0	0	0	0	0	0	
Nevada	20,231	21,611	-6.4%	20,231	21,611	0	0	0	0	0	0	
New Mexico	7,420	7,301	1.6%	5,039	4,897	2,380	2,404	0	0	0	0	
Utah	5,638	5,621	0.3%	5,400	5,299	185	267	0	0	54	55	
Wyoming	3	5	-45.0%	3	5	0	0	0	0	0	0	
Pacific Contiguous	93,330	98,829	-5.6%	37,610	36,249	51,992	59,217	0	0	3,728	3,364	
California	69,056	78,199	-12.0%	23,333	23,432	41,996	51,403	0	0	3,728	3,364	
Oregon	14,137	11,257	26.0%	8,072	4,642	6,065	6,614	0	0	0	0	
Washington	10,136	9,374	8.1%	6,206	8,174	3,931	1,199	0	0	0	0	
Pacific Noncontiguous	1,000	1,244	-20.0%	1,000	1,244	0	0	0	0	0	0	
Alaska	1,000	1,244	-20.0%	1,000	1,244	0	0	0	0	0	0	
Hawaii	0	0	--	0	0	0	0	0	0	0	0	
U.S. Total	1,162,659	1,038,238	12.0%	549,200	471,677	549,400	502,592	765	680	63,294	63,289	

Displayed values of zero may represent small values that round to zero.

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

W = Withheld to avoid disclosure of individual company data.

Notes:

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

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

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

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

Census Division and State	Electric Power Sector										
	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	265,180	252,389	5.1%	1,707	1,786	263,404	250,126	0	0	69	478
Connecticut	81,059	75,371	7.5%	0	0	81,059	75,371	0	0	0	0
Maine	17,016	10,831	57.0%	0	0	16,947	10,353	0	0	69	478
Massachusetts	111,088	101,992	8.9%	1,289	1,512	109,799	100,481	0	0	0	0
New Hampshire	22,320	28,909	-23.0%	418	274	21,902	28,635	0	0	0	0
Rhode Island	33,696	35,286	-4.5%	0	0	33,696	35,286	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	833,377	731,351	14.0%	74,934	67,980	756,853	662,038	0	0	1,590	1,332
New Jersey	215,838	172,022	25.0%	0	0	215,838	172,022	0	0	0	0
New York	298,752	285,674	4.6%	74,934	67,980	223,240	217,155	0	0	579	539
Pennsylvania	318,787	273,655	16.0%	0	0	317,776	272,862	0	0	1,012	793
East North Central	601,873	430,564	40.0%	268,604	181,006	322,404	242,073	4,383	3,215	6,482	4,269
Illinois	95,880	45,867	109.0%	9,398	3,037	86,459	42,789	0	0	24	41
Indiana	100,928	75,438	34.0%	82,028	59,574	18,900	15,864	0	0	0	0
Michigan	170,755	103,859	64.0%	58,183	22,211	104,353	75,648	4,383	3,215	3,836	2,784
Ohio	145,932	140,196	4.1%	40,928	36,743	104,607	103,153	0	0	396	301
Wisconsin	88,379	65,203	36.0%	78,067	59,441	8,086	4,619	0	0	2,226	1,143
West North Central	123,761	92,795	33.0%	102,929	79,475	19,747	12,554	1,078	757	8	9
Iowa	21,103	17,359	22.0%	21,095	17,350	0	0	0	0	8	9
Kansas	10,632	9,166	16.0%	10,632	9,166	0	0	0	0	0	0
Minnesota	50,208	33,364	50.0%	40,057	28,414	10,145	4,878	5	72	0	0
Missouri	33,345	25,818	29.0%	22,670	17,457	9,602	7,677	1,073	685	0	0
Nebraska	2,993	2,811	6.5%	2,993	2,811	0	0	0	0	0	0
North Dakota	1,176	359	228.0%	1,176	359	0	0	0	0	0	0
South Dakota	4,305	3,919	9.9%	4,305	3,919	0	0	0	0	0	0
South Atlantic	1,674,621	1,513,880	11.0%	1,340,125	1,225,222	309,421	264,586	0	0	25,075	24,071
Delaware	43,582	39,620	10.0%	0	0	34,381	29,884	0	0	9,201	9,736
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	803,366	750,654	7.0%	739,153	718,519	64,212	32,134	0	0	0	0
Georgia	278,769	248,344	12.0%	202,729	158,013	69,652	82,016	0	0	6,387	8,315
Maryland	37,955	24,927	52.0%	0	0	36,480	24,694	0	0	1,475	234
North Carolina	204,541	180,906	13.0%	178,031	159,217	26,510	21,689	0	0	0	0
South Carolina	85,359	83,129	2.7%	69,415	74,623	14,627	8,107	0	0	1,317	400
Virginia	212,596	177,775	20.0%	149,616	113,821	57,854	58,566	0	0	5,125	5,387
West Virginia	8,453	8,525	-0.8%	1,180	1,029	5,704	7,496	0	0	1,569	0
East South Central	630,194	571,353	10.0%	401,096	341,502	222,242	225,101	0	0	6,855	4,750
Alabama	265,245	254,495	4.2%	77,077	64,176	188,169	190,319	0	0	0	0
Kentucky	47,275	34,232	38.0%	42,748	29,622	4,527	4,610	0	0	0	0
Mississippi	252,887	230,413	9.8%	223,340	200,241	29,547	30,173	0	0	0	0
Tennessee	64,787	52,213	24.0%	57,931	47,463	0	0	0	0	6,855	4,750
West South Central	2,007,387	1,993,799	0.7%	627,876	575,277	970,528	1,007,027	0	0	408,983	411,495
Arkansas	91,969	84,144	9.3%	37,619	21,751	52,723	59,721	0	0	1,627	2,673
Louisiana	377,259	355,267	6.2%	196,545	202,663	37,747	19,818	0	0	142,968	132,785
Oklahoma	193,612	174,570	11.0%	137,264	114,662	56,348	59,908	0	0	0	0
Texas	1,344,546	1,379,818	-2.6%	256,449	236,200	823,710	867,581	0	0	264,388	276,037
Mountain	486,673	429,631	13.0%	380,261	319,649	105,894	109,588	0	0	518	394
Arizona	182,176	157,234	16.0%	110,124	84,156	72,052	73,078	0	0	0	0
Colorado	66,549	54,125	23.0%	55,902	42,312	10,647	11,813	0	0	0	0
Idaho	14,898	14,992	-0.6%	9,364	9,185	5,534	5,807	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	133,596	124,996	6.9%	133,596	124,996	0	0	0	0	0	0
New Mexico	50,107	44,422	13.0%	33,247	26,516	16,860	17,906	0	0	0	0
Utah	39,316	33,792	16.0%	37,996	32,414	802	984	0	0	518	394
Wyoming	32	70	-55.0%	32	70	0	0	0	0	0	0
Pacific Contiguous	496,976	560,059	-11.0%	199,005	216,041	271,036	319,284	0	0	26,935	24,735
California	386,348	449,860	-14.0%	135,655	149,208	223,758	275,917	0	0	26,935	24,735
Oregon	65,436	66,267	-1.3%	30,236	27,302	35,200	38,966	0	0	0	0
Washington	45,192	43,932	2.9%	33,114	39,531	12,078	4,401	0	0	0	0
Pacific Noncontiguous	8,927	10,780	-17.0%	8,927	10,780	0	0	0	0	0	0
Alaska	8,927	10,780	-17.0%	8,927	10,780	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	7,128,969	6,586,602	8.2%	3,405,463	3,018,718	3,241,530	3,092,378	5,461	3,972	476,515	471,534

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 W = Withheld to avoid disclosure of individual company data.

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

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

Table 4.10.A. Average Cost of Coal Delivered for Electricity Generation by State, August 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015
New England	W	W	W	4.07	3.96	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.07	3.96	2.8%	4.07	3.96	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.00	2.36	-15.0%	--	--	2.00	2.36
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	--	--	W	W
Pennsylvania	1.95	2.29	-15.0%	--	--	1.95	2.29
East North Central	2.08	2.16	-3.7%	2.17	2.24	1.93	2.01
Illinois	W	1.91	W	1.97	2.02	W	1.88
Indiana	W	W	W	2.25	2.30	W	W
Michigan	W	W	W	2.23	2.35	W	W
Ohio	2.02	W	W	1.88	2.12	2.08	W
Wisconsin	2.23	2.23	0.0%	2.23	2.23	--	--
West North Central	1.72	1.70	1.2%	1.72	1.70	--	--
Iowa	1.60	1.62	-1.2%	1.60	1.62	--	--
Kansas	1.80	1.68	7.1%	1.80	1.68	--	--
Minnesota	2.04	1.91	6.8%	2.04	1.91	--	--
Missouri	1.86	1.89	-1.6%	1.86	1.89	--	--
Nebraska	1.36	1.34	1.5%	1.36	1.34	--	--
North Dakota	1.43	1.50	-4.7%	1.43	1.50	--	--
South Dakota	2.21	2.29	-3.5%	2.21	2.29	--	--
South Atlantic	2.76	2.95	-6.4%	2.80	2.98	2.50	2.72
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.04	3.10	W	W
Georgia	2.75	2.93	-6.1%	2.75	2.93	--	--
Maryland	2.99	2.83	5.7%	--	--	2.99	2.83
North Carolina	3.12	3.44	-9.3%	3.12	3.44	--	--
South Carolina	3.08	3.51	-12.0%	3.08	3.51	--	--
Virginia	W	W	W	2.86	2.79	W	W
West Virginia	W	W	W	2.31	2.36	W	W
East South Central	W	W	W	2.21	2.32	W	W
Alabama	2.38	2.47	-3.6%	2.38	2.47	--	--
Kentucky	2.10	2.19	-4.1%	2.10	2.19	--	--
Mississippi	W	W	W	2.65	3.05	W	W
Tennessee	2.24	2.38	-5.9%	2.24	2.38	--	--
West South Central	1.88	2.12	-11.0%	2.13	2.25	1.63	1.97
Arkansas	W	W	W	2.24	2.26	W	W
Louisiana	W	W	W	2.77	3.07	W	W
Oklahoma	W	W	W	1.91	1.97	W	W
Texas	1.79	2.04	-12.0%	2.10	2.18	1.60	1.95
Mountain	W	W	W	1.94	1.90	W	W
Arizona	2.09	1.92	8.9%	2.09	1.92	--	--
Colorado	1.90	1.86	2.2%	1.90	1.86	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	2.10	2.71	W	W
New Mexico	1.80	2.37	-24.0%	1.80	2.37	--	--
Utah	1.93	1.96	-1.5%	1.93	1.96	--	--
Wyoming	1.92	1.59	21.0%	1.92	1.59	--	--
Pacific Contiguous	W	W	W	2.33	2.52	W	W
California	--	--	--	--	--	--	--
Oregon	2.33	2.52	-7.5%	2.33	2.52	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.07	3.09	W	W
Alaska	3.07	3.09	-0.6%	3.07	3.09	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.10	2.22	-5.4%	2.17	2.26	1.90	2.12

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Notes:
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 See Technical Notes for a discussion of the sample design for the Form EIA-923.
 Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
 Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and coal-derived synthesis gas.

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	3.03	3.57	-15.0%	4.04	3.90	2.88	3.40
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	4.04	3.90	3.6%	4.04	3.90	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.03	2.47	-18.0%	--	--	2.03	2.47
New Jersey	W	3.90	W	--	--	W	3.90
New York	W	3.07	W	--	--	W	3.07
Pennsylvania	1.97	2.40	-18.0%	--	--	1.97	2.40
East North Central	2.09	2.20	-5.0%	2.17	2.29	1.96	2.04
Illinois	W	1.93	W	1.96	2.02	W	1.90
Indiana	W	W	W	2.24	2.32	W	W
Michigan	W	W	W	2.25	2.43	W	W
Ohio	2.06	W	W	1.95	2.14	2.11	W
Wisconsin	2.19	2.32	-5.6%	2.19	2.32	--	--
West North Central	1.72	1.74	-1.1%	1.72	1.74	--	--
Iowa	1.61	1.63	-1.2%	1.61	1.63	--	--
Kansas	1.71	1.71	0.0%	1.71	1.71	--	--
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	1.54	1.54	0.0%	1.54	1.54	--	--
South Dakota	2.23	2.23	0.0%	2.23	2.23	--	--
South Atlantic	2.76	2.96	-6.8%	2.79	2.99	2.50	2.72
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.04	3.06	W	W
Georgia	2.84	2.97	-4.4%	2.84	2.97	--	--
Maryland	2.81	2.89	-2.8%	--	--	2.81	2.89
North Carolina	3.09	3.53	-12.0%	3.09	3.53	--	--
South Carolina	3.20	3.56	-10.0%	3.20	3.56	--	--
Virginia	W	W	W	2.90	2.91	W	W
West Virginia	W	2.34	W	2.32	2.38	W	2.09
East South Central	W	W	W	2.22	2.35	W	W
Alabama	2.43	2.47	-1.6%	2.43	2.47	--	--
Kentucky	2.12	2.24	-5.4%	2.12	2.24	--	--
Mississippi	W	W	W	2.63	3.15	W	W
Tennessee	2.22	2.40	-7.5%	2.22	2.40	--	--
West South Central	1.90	2.08	-8.7%	2.16	2.19	1.64	1.95
Arkansas	W	W	W	2.22	2.26	W	W
Louisiana	W	W	W	2.78	2.92	W	W
Oklahoma	W	W	W	1.91	1.98	W	W
Texas	1.78	2.02	-12.0%	2.10	2.14	1.60	1.93
Mountain	W	W	W	1.90	1.92	W	W
Arizona	2.13	2.01	6.0%	2.13	2.01	--	--
Colorado	1.89	1.84	2.7%	1.89	1.84	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	1.98	2.72	W	W
New Mexico	1.81	2.37	-24.0%	1.81	2.37	--	--
Utah	1.95	1.96	-0.5%	1.95	1.96	--	--
Wyoming	1.75	1.63	7.4%	1.75	1.63	--	--
Pacific Contiguous	W	W	W	2.30	2.39	W	W
California	--	--	--	--	--	--	--
Oregon	2.30	2.39	-3.8%	2.30	2.39	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.11	3.13	W	W
Alaska	3.11	3.13	-0.6%	3.11	3.13	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.12	2.24	-5.4%	2.17	2.27	1.95	2.17

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015
New England	W	W	W	10.15	11.76	W	W
Connecticut	10.74	W	W	--	--	10.74	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	10.15	11.76	-14.0%	10.15	11.76	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	11.28	12.26	-8.0%	10.99	12.60	11.48	12.24
New Jersey	W	11.28	W	--	--	W	11.28
New York	11.81	13.96	-15.0%	10.99	12.60	13.75	14.80
Pennsylvania	W	12.00	W	--	--	W	12.00
East North Central	11.09	W	W	11.25	12.66	10.85	W
Illinois	11.55	12.96	-11.0%	11.65	12.75	11.54	13.09
Indiana	11.13	13.69	-19.0%	11.13	13.69	--	--
Michigan	11.24	11.82	-4.9%	11.24	11.82	--	--
Ohio	10.80	11.91	-9.3%	11.48	12.38	10.62	11.68
Wisconsin	11.31	W	W	11.31	14.62	--	W
West North Central	11.21	13.01	-14.0%	11.21	13.01	--	--
Iowa	11.07	11.86	-6.7%	11.07	11.86	--	--
Kansas	--	12.20	--	--	12.20	--	--
Minnesota	11.62	12.79	-9.1%	11.62	12.79	--	--
Missouri	11.76	12.21	-3.7%	11.76	12.21	--	--
Nebraska	11.37	22.03	-48.0%	11.37	22.03	--	--
North Dakota	9.11	12.06	-24.0%	9.11	12.06	--	--
South Dakota	--	12.81	--	--	12.81	--	--
South Atlantic	8.46	W	W	8.10	10.44	10.74	W
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	7.46	W	W	7.46	11.73	--	W
Georgia	10.53	11.10	-5.1%	10.53	11.10	--	--
Maryland	W	11.16	W	--	--	W	11.16
North Carolina	11.06	11.57	-4.4%	11.06	11.57	--	--
South Carolina	11.96	15.15	-21.0%	11.96	15.15	--	--
Virginia	W	W	W	7.18	9.56	W	W
West Virginia	12.08	W	W	12.08	11.91	--	W
East South Central	11.25	12.18	-7.6%	11.25	12.18	--	--
Alabama	12.67	12.16	4.2%	12.67	12.16	--	--
Kentucky	11.47	12.92	-11.0%	11.47	12.92	--	--
Mississippi	9.98	10.86	-8.1%	9.98	10.86	--	--
Tennessee	11.11	11.31	-1.8%	11.11	11.31	--	--
West South Central	10.29	W	W	10.30	11.76	10.28	W
Arkansas	W	--	W	10.15	--	W	--
Louisiana	--	W	W	--	--	--	W
Oklahoma	12.60	--	--	12.60	--	--	--
Texas	W	W	W	10.05	11.76	W	W
Mountain	W	W	W	11.84	13.46	W	W
Arizona	10.73	11.84	-9.4%	10.73	11.84	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	11.89	16.92	W	W
New Mexico	11.30	14.37	-21.0%	11.30	14.37	--	--
Utah	11.25	10.54	6.7%	11.25	10.54	--	--
Wyoming	13.04	13.08	-0.3%	13.04	13.08	--	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	9.22	12.28	W	W
Alaska	14.41	16.50	-13.0%	14.41	16.50	--	--
Hawaii	W	W	W	9.21	12.25	W	W
U.S. Total	9.42	12.05	-22.0%	9.14	11.75	10.26	12.56

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	8.54	W	W	9.59	11.46	8.03	W
Connecticut	9.15	W	W	--	--	9.15	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	14.61	W	9.59	22.01	W	14.55
New Hampshire	9.60	W	W	9.60	10.51	--	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	12.68	W	10.12	9.92	W	14.51
New Jersey	W	16.52	W	--	--	W	16.52
New York	11.96	12.32	-2.9%	10.12	9.92	12.40	14.75
Pennsylvania	W	13.79	W	--	--	W	13.79
East North Central	10.43	14.15	-26.0%	10.13	14.09	10.98	14.31
Illinois	10.51	W	W	10.27	14.45	10.57	W
Indiana	10.13	14.27	-29.0%	10.13	14.27	--	--
Michigan	10.10	13.33	-24.0%	10.10	13.33	--	--
Ohio	10.41	13.99	-26.0%	9.27	13.76	11.18	14.21
Wisconsin	12.88	W	W	12.88	16.70	--	W
West North Central	9.85	13.33	-26.0%	9.85	13.33	--	--
Iowa	10.19	13.39	-24.0%	10.19	13.39	--	--
Kansas	9.99	13.03	-23.0%	9.99	13.03	--	--
Minnesota	10.64	13.99	-24.0%	10.64	13.99	--	--
Missouri	10.03	13.32	-25.0%	10.03	13.32	--	--
Nebraska	10.74	22.03	-51.0%	10.74	22.03	--	--
North Dakota	8.83	13.22	-33.0%	8.83	13.22	--	--
South Dakota	7.54	12.55	-40.0%	7.54	12.55	--	--
South Atlantic	9.76	13.44	-27.0%	9.75	13.10	9.79	14.80
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	11.61	14.65	W	W
Georgia	8.95	17.12	-48.0%	9.24	18.89	7.68	14.11
Maryland	8.86	11.34	-22.0%	--	--	8.86	11.34
North Carolina	W	W	W	9.76	14.02	W	W
South Carolina	10.71	15.12	-29.0%	10.71	15.12	--	--
Virginia	W	12.55	W	7.87	11.33	W	19.15
West Virginia	10.85	W	W	10.85	14.51	--	W
East South Central	W	W	W	9.83	13.00	W	W
Alabama	W	W	W	9.38	13.43	W	W
Kentucky	10.07	13.94	-28.0%	10.07	13.94	--	--
Mississippi	8.83	10.49	-16.0%	8.83	10.49	--	--
Tennessee	9.90	12.82	-23.0%	9.90	12.82	--	--
West South Central	10.05	13.67	-26.0%	9.89	13.66	10.51	13.68
Arkansas	W	W	W	9.56	14.29	W	W
Louisiana	W	W	W	9.54	12.69	W	W
Oklahoma	12.05	15.19	-21.0%	12.05	15.19	--	--
Texas	W	W	W	10.28	14.23	W	W
Mountain	W	W	W	10.86	15.37	W	W
Arizona	10.71	14.30	-25.0%	10.71	14.30	--	--
Colorado	9.46	15.24	-38.0%	9.46	15.24	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	11.79	17.07	W	W
New Mexico	10.61	16.13	-34.0%	10.61	16.13	--	--
Utah	11.03	14.88	-26.0%	11.03	14.88	--	--
Wyoming	11.31	15.26	-26.0%	11.31	15.26	--	--
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	8.08	12.01	W	W
Alaska	12.58	18.19	-31.0%	12.58	18.19	--	--
Hawaii	W	W	W	8.07	12.00	W	W
U.S. Total	9.02	12.67	-29.0%	8.85	12.35	9.57	13.31

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	W	W	W	1.35	1.21	W	W
Illinois	--	--	--	--	--	--	--
Indiana	--	0.96	--	--	0.96	--	--
Michigan	1.28	1.63	-21.0%	1.28	1.63	--	--
Ohio	W	W	W	--	--	W	W
Wisconsin	1.72	1.71	0.6%	1.72	1.71	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.89	2.14	-12.0%	1.89	2.14	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.89	2.14	-12.0%	1.89	2.14	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	--	1.72	--	--	1.72	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	--	1.72	--	--	1.72	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.50	1.85	-19.0%	1.50	1.85	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.50	1.85	-19.0%	1.50	1.85	--	--
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	1.62	1.76	W	W

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 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	1.19	1.34	W	W
Illinois	--	--	--	--	--	--	--
Indiana	0.96	0.94	2.1%	0.96	0.94	--	--
Michigan	1.30	W	W	1.30	1.78	--	W
Ohio	W	W	W	--	--	W	W
Wisconsin	1.70	1.64	3.7%	1.70	1.64	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.37	2.30	-40.0%	1.37	2.30	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.37	2.30	-40.0%	1.37	2.30	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.61	1.73	-6.9%	1.61	1.73	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.61	1.73	-6.9%	1.61	1.73	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.22	1.90	-36.0%	1.22	1.90	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.22	1.90	-36.0%	1.22	1.90	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.41	1.93	-27.0%	1.28	1.87	2.50	2.43

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2016	August 2015	Percentage Change	August 2016	August 2015	August 2016	August 2015
New England	3.10	2.85	8.8%	3.71	3.38	3.09	2.84
Connecticut	3.02	2.62	15.0%	--	--	3.02	2.62
Maine	W	W	W	--	--	W	W
Massachusetts	3.09	3.01	2.7%	3.57	2.90	3.07	3.01
New Hampshire	W	W	W	4.35	5.15	W	W
Rhode Island	W	2.36	W	--	--	W	2.36
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.02	2.15	-6.0%	2.40	2.43	1.97	2.12
New Jersey	1.85	2.13	-13.0%	--	--	1.85	2.13
New York	2.47	2.54	-2.8%	2.40	2.43	2.50	2.58
Pennsylvania	1.62	1.73	-6.4%	--	--	1.62	1.73
East North Central	2.91	2.82	3.2%	3.06	3.00	2.76	2.67
Illinois	2.97	W	W	3.07	3.81	2.96	W
Indiana	W	W	W	3.52	3.02	W	W
Michigan	2.99	3.31	-9.7%	3.10	3.73	2.88	3.19
Ohio	2.41	2.12	14.0%	2.38	2.24	2.42	2.07
Wisconsin	W	W	W	2.95	3.19	W	W
West North Central	3.05	3.38	-9.8%	3.07	3.43	2.91	3.05
Iowa	2.78	2.95	-5.8%	2.78	2.95	--	--
Kansas	3.39	3.54	-4.2%	3.39	3.54	--	--
Minnesota	W	W	W	3.16	3.51	W	W
Missouri	W	W	W	3.06	3.37	W	W
Nebraska	3.24	4.73	-32.0%	3.24	4.73	--	--
North Dakota	2.98	3.03	-1.7%	2.98	3.03	--	--
South Dakota	2.77	4.00	-31.0%	2.77	4.00	--	--
South Atlantic	3.44	3.84	-10.0%	3.53	3.98	2.83	2.91
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.85	4.37	-12.0%	3.86	4.40	3.32	3.01
Georgia	3.23	3.26	-0.9%	3.29	3.28	3.02	3.22
Maryland	2.87	3.90	-26.0%	--	--	2.87	3.90
North Carolina	W	W	W	3.59	4.08	W	W
South Carolina	W	W	W	3.38	3.42	W	W
Virginia	W	W	W	2.62	2.75	W	W
West Virginia	W	1.82	W	2.46	2.52	W	1.78
East South Central	3.03	2.99	1.3%	3.03	3.02	3.03	2.95
Alabama	W	3.04	W	3.14	3.20	W	2.98
Kentucky	W	W	W	3.23	4.04	W	W
Mississippi	W	W	W	3.07	2.97	W	W
Tennessee	2.67	2.71	-1.5%	2.67	2.71	--	--
West South Central	2.89	2.96	-2.4%	2.98	3.06	2.83	2.89
Arkansas	W	W	W	3.39	3.09	W	W
Louisiana	W	3.11	W	3.06	3.14	W	2.88
Oklahoma	W	W	W	2.92	3.08	W	W
Texas	2.85	2.92	-2.4%	2.90	2.99	2.83	2.90
Mountain	3.12	3.25	-4.0%	3.16	3.25	2.85	3.24
Arizona	W	3.34	W	3.36	3.44	W	3.11
Colorado	W	W	W	3.15	3.11	W	W
Idaho	2.89	2.92	-1.0%	2.89	2.92	--	--
Montana	--	--	--	--	--	--	--
Nevada	3.09	3.24	-4.6%	3.09	3.24	--	--
New Mexico	3.11	3.15	-1.3%	3.11	3.15	--	--
Utah	W	W	W	2.87	3.02	W	W
Wyoming	5.41	6.63	-18.0%	5.41	6.63	--	--
Pacific Contiguous	3.06	3.27	-6.4%	3.16	3.45	2.97	3.12
California	3.33	3.41	-2.3%	3.65	3.69	3.13	3.22
Oregon	W	W	W	2.26	2.78	W	W
Washington	W	W	W	2.88	3.30	W	W
Pacific Noncontiguous	6.45	5.19	24.0%	6.45	5.19	--	--
Alaska	6.45	5.19	24.0%	6.45	5.19	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.96	3.12	-5.1%	3.23	3.46	2.62	2.72

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

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	August 2016 YTD	August 2015 YTD	Percentage Change	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	3.09	4.57	-32.0%	3.49	3.99	3.09	4.58
Connecticut	3.59	4.93	-27.0%	--	--	3.59	4.93
Maine	W	W	W	--	--	W	W
Massachusetts	2.77	4.50	-38.0%	3.37	3.85	2.76	4.51
New Hampshire	W	W	W	3.83	4.70	W	W
Rhode Island	W	3.82	W	--	--	W	3.82
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.15	3.35	-36.0%	2.58	4.16	2.10	3.26
New Jersey	2.05	3.40	-40.0%	--	--	2.05	3.40
New York	2.56	3.82	-33.0%	2.58	4.16	2.56	3.69
Pennsylvania	1.81	2.83	-36.0%	--	--	1.81	2.83
East North Central	2.48	3.01	-18.0%	2.62	3.17	2.35	2.89
Illinois	2.64	3.31	-20.0%	2.88	3.98	2.61	3.26
Indiana	W	W	W	2.74	3.13	W	W
Michigan	2.54	3.38	-25.0%	2.76	3.51	2.41	3.35
Ohio	2.10	2.42	-13.0%	2.17	2.63	2.08	2.35
Wisconsin	W	W	W	2.61	3.37	W	W
West North Central	2.74	W	W	2.76	3.56	2.65	W
Iowa	2.49	3.15	-21.0%	2.49	3.15	--	--
Kansas	3.24	3.74	-13.0%	3.24	3.74	--	--
Minnesota	W	W	W	2.86	3.85	W	W
Missouri	W	W	W	2.67	3.40	W	W
Nebraska	3.00	3.84	-22.0%	3.00	3.84	--	--
North Dakota	2.56	2.90	-12.0%	2.56	2.90	--	--
South Dakota	2.28	3.33	-32.0%	2.28	3.33	--	--
South Atlantic	3.27	4.17	-22.0%	3.38	4.31	2.54	3.14
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.63	4.42	-18.0%	3.65	4.45	2.67	3.00
Georgia	2.77	3.37	-18.0%	2.82	3.38	2.62	3.33
Maryland	2.89	W	W	--	--	2.89	W
North Carolina	W	W	W	3.56	5.01	W	W
South Carolina	W	W	W	3.16	3.66	W	W
Virginia	W	3.74	W	2.72	4.22	W	2.29
West Virginia	W	2.11	W	2.35	2.91	W	2.01
East South Central	2.64	3.10	-15.0%	2.66	3.10	2.58	3.08
Alabama	2.67	3.15	-15.0%	2.70	3.18	2.65	3.14
Kentucky	W	W	W	2.94	3.95	W	W
Mississippi	W	W	W	2.66	3.03	W	W
Tennessee	2.40	2.87	-16.0%	2.40	2.87	--	--
West South Central	2.44	2.98	-18.0%	2.54	3.10	2.37	2.90
Arkansas	W	W	W	2.79	3.43	W	W
Louisiana	2.46	3.10	-21.0%	2.50	3.12	2.25	2.94
Oklahoma	W	W	W	2.56	3.14	W	W
Texas	2.42	2.94	-18.0%	2.52	3.04	2.38	2.91
Mountain	2.78	W	W	2.78	3.40	2.71	W
Arizona	W	3.49	W	2.96	3.62	W	3.08
Colorado	W	3.81	W	2.92	3.69	W	4.41
Idaho	2.64	2.95	-11.0%	2.64	2.95	--	--
Montana	--	--	--	--	--	--	--
Nevada	2.71	3.31	-18.0%	2.71	3.31	--	--
New Mexico	2.73	3.26	-16.0%	2.73	3.26	--	--
Utah	W	W	W	2.43	3.05	W	W
Wyoming	6.91	5.23	32.0%	6.91	5.23	--	--
Pacific Contiguous	2.79	3.32	-16.0%	3.06	3.56	2.56	3.09
California	2.92	3.45	-15.0%	3.30	3.78	2.66	3.19
Oregon	W	W	W	2.18	2.87	W	W
Washington	W	W	W	3.05	3.35	W	W
Pacific Noncontiguous	6.52	5.35	22.0%	6.52	5.35	--	--
Alaska	6.52	5.35	22.0%	6.52	5.35	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.72	3.47	-22.0%	2.97	3.71	2.40	3.17

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

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

Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, August 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	82	1.50	8.5	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	6	0.75	8.0	0	--	--	0	--	--
Massachusetts	48	0.73	8.7	0	--	--	0	--	--
New Hampshire	29	2.70	8.3	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	2,037	3.08	9.4	0	--	--	0	--	--
New Jersey	76	1.68	8.1	0	--	--	0	--	--
New York	80	2.66	7.8	0	--	--	0	--	--
Pennsylvania	1,881	3.15	9.6	0	--	--	0	--	--
East North Central	6,512	3.01	9.8	6,596	0.24	4.8	0	--	--
Illinois	789	3.66	19.1	2,719	0.21	4.6	0	--	--
Indiana	2,389	2.86	8.3	202	0.25	4.7	0	--	--
Michigan	163	2.30	7.8	1,780	0.28	4.7	0	--	--
Ohio	3,056	3.04	9.2	0	--	--	0	--	--
Wisconsin	115	2.69	7.9	1,895	0.25	5.2	0	--	--
West North Central	120	3.12	9.1	9,506	0.27	5.0	2,140	0.80	9.7
Iowa	20	3.40	7.5	1,554	0.25	4.9	0	--	--
Kansas	15	2.96	12.1	1,547	0.28	4.8	0	--	--
Minnesota	0	--	--	1,237	0.39	6.3	0	--	--
Missouri	85	3.08	8.9	3,613	0.23	4.7	0	--	--
Nebraska	0	--	--	1,316	0.28	5.3	0	--	--
North Dakota	0	--	--	97	0.31	4.6	2,140	0.80	9.7
South Dakota	0	--	--	142	0.33	5.0	0	--	--
South Atlantic	8,428	2.23	10.3	778	0.33	4.8	0	--	--
Delaware	12	2.72	7.8	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,656	2.05	8.1	0	--	--	0	--	--
Georgia	872	2.46	8.1	778	0.33	4.8	0	--	--
Maryland	484	2.30	9.4	0	--	--	0	--	--
North Carolina	1,364	1.81	9.6	0	--	--	0	--	--
South Carolina	777	1.84	8.6	0	--	--	0	--	--
Virginia	767	0.94	17.1	0	--	--	0	--	--
West Virginia	2,495	2.97	11.8	0	--	--	0	--	--
East South Central	4,274	2.53	8.9	2,193	0.26	5.0	327	0.53	14.0
Alabama	742	1.26	9.3	1,008	0.26	5.1	0	--	--
Kentucky	2,755	2.96	9.1	683	0.27	5.0	0	--	--
Mississippi	81	1.57	8.2	124	0.28	5.0	327	0.53	14.0
Tennessee	695	2.29	8.1	377	0.24	4.6	0	--	--
West South Central	47	1.30	26.0	7,590	0.28	5.2	3,488	0.97	15.8
Arkansas	5	0.71	8.4	1,004	0.26	5.2	0	--	--
Louisiana	0	--	--	315	0.29	5.3	161	0.59	15.5
Oklahoma	42	1.39	28.7	1,137	0.25	4.9	0	--	--
Texas	0	--	--	5,135	0.29	5.3	3,328	0.98	15.9
Mountain	2,758	0.61	13.9	6,102	0.53	8.4	0	--	--
Arizona	675	0.59	10.7	924	0.65	10.3	0	--	--
Colorado	278	0.52	11.1	1,335	0.32	5.7	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	935	0.74	9.5	0	--	--
Nevada	49	0.44	6.8	60	0.28	5.2	0	--	--
New Mexico	557	0.73	22.9	294	0.85	20.1	0	--	--
Utah	1,199	0.60	13.0	87	1.10	12.0	0	--	--
Wyoming	0	--	--	2,468	0.46	7.2	0	--	--
Pacific Contiguous	55	0.53	11.2	472	0.38	8.0	0	--	--
California	55	0.53	11.2	0	--	--	0	--	--
Oregon	0	--	--	127	0.25	4.8	0	--	--
Washington	0	--	--	345	0.42	9.3	0	--	--
Pacific Noncontiguous	0	--	--	60	0.33	4.0	10	0.15	8.6
Alaska	0	--	--	0	--	--	10	0.15	8.6
Hawaii	0	--	--	60	0.33	4.0	0	--	--
U.S. Total	24,313	2.40	10.2	33,297	0.32	5.7	5,965	0.89	13.5

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

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

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilities by State, August 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	29	2.70	8.3	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	29	2.70	8.3	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	3,671	2.89	8.6	4,214	0.26	4.9	0	--	--
Illinois	219	3.40	10.8	360	0.23	4.7	0	--	--
Indiana	2,244	2.81	8.3	202	0.25	4.7	0	--	--
Michigan	145	2.48	8.1	1,780	0.28	4.7	0	--	--
Ohio	948	3.05	9.0	0	--	--	0	--	--
Wisconsin	115	2.69	7.9	1,872	0.25	5.2	0	--	--
West North Central	96	3.06	9.4	9,392	0.27	5.0	2,140	0.80	9.7
Iowa	0	--	--	1,441	0.25	4.9	0	--	--
Kansas	15	2.96	12.1	1,547	0.28	4.8	0	--	--
Minnesota	0	--	--	1,237	0.39	6.3	0	--	--
Missouri	81	3.08	8.9	3,613	0.23	4.7	0	--	--
Nebraska	0	--	--	1,316	0.28	5.3	0	--	--
North Dakota	0	--	--	97	0.31	4.6	2,140	0.80	9.7
South Dakota	0	--	--	142	0.33	5.0	0	--	--
South Atlantic	7,315	2.13	10.3	778	0.33	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,619	2.08	8.1	0	--	--	0	--	--
Georgia	862	2.47	8.1	778	0.33	4.8	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	1,364	1.81	9.6	0	--	--	0	--	--
South Carolina	769	1.85	8.6	0	--	--	0	--	--
Virginia	696	0.90	17.9	0	--	--	0	--	--
West Virginia	2,005	2.74	11.6	0	--	--	0	--	--
East South Central	4,169	2.58	8.9	2,193	0.26	5.0	0	--	--
Alabama	742	1.26	9.3	1,008	0.26	5.1	0	--	--
Kentucky	2,755	2.96	9.1	683	0.27	5.0	0	--	--
Mississippi	81	1.57	8.2	124	0.28	5.0	0	--	--
Tennessee	590	2.57	8.1	377	0.24	4.6	0	--	--
West South Central	0	--	--	4,611	0.26	5.1	768	1.28	19.3
Arkansas	0	--	--	806	0.26	5.2	0	--	--
Louisiana	0	--	--	217	0.26	5.3	161	0.59	15.5
Oklahoma	0	--	--	1,081	0.25	4.9	0	--	--
Texas	0	--	--	2,507	0.26	5.2	607	1.49	20.4
Mountain	2,709	0.61	14.0	5,108	0.49	8.2	0	--	--
Arizona	675	0.59	10.7	924	0.65	10.3	0	--	--
Colorado	278	0.52	11.1	1,335	0.32	5.7	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	49	0.44	6.8	0	--	--	0	--	--
New Mexico	557	0.73	22.9	294	0.85	20.1	0	--	--
Utah	1,151	0.60	13.2	87	1.10	12.0	0	--	--
Wyoming	0	--	--	2,468	0.46	7.2	0	--	--
Pacific Contiguous	0	--	--	127	0.25	4.8	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	127	0.25	4.8	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	17,988	2.19	10.1	26,424	0.31	5.6	2,918	0.92	12.1

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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 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, August 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	52	0.73	8.6	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	4	0.74	7.9	0	--	--	0	--	--
Massachusetts	48	0.73	8.7	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	2,004	3.11	9.4	0	--	--	0	--	--
New Jersey	76	1.68	8.1	0	--	--	0	--	--
New York	55	3.31	7.6	0	--	--	0	--	--
Pennsylvania	1,873	3.16	9.5	0	--	--	0	--	--
East North Central	2,734	3.14	11.4	2,310	0.21	4.6	0	--	--
Illinois	477	3.81	26.7	2,310	0.21	4.6	0	--	--
Indiana	145	3.63	9.0	0	--	--	0	--	--
Michigan	18	0.43	5.5	0	--	--	0	--	--
Ohio	2,095	3.03	9.3	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	1,051	2.94	10.7	0	--	--	0	--	--
Delaware	12	2.72	7.8	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	37	0.72	7.8	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	467	2.31	9.0	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	45	0.90	8.6	0	--	--	0	--	--
West Virginia	490	3.93	12.8	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	327	0.53	14.0
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	327	0.53	14.0
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	42	1.39	28.7	2,979	0.31	5.4	2,721	0.89	15.0
Arkansas	0	--	--	197	0.26	5.2	0	--	--
Louisiana	0	--	--	98	0.35	5.3	0	--	--
Oklahoma	42	1.39	28.7	56	0.33	4.8	0	--	--
Texas	0	--	--	2,627	0.31	5.4	2,721	0.89	15.0
Mountain	0	--	--	995	0.71	9.2	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	935	0.74	9.5	0	--	--
Nevada	0	--	--	60	0.28	5.2	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	345	0.42	9.3	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	345	0.42	9.3	0	--	--
Pacific Noncontiguous	0	--	--	60	0.33	4.0	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	60	0.33	4.0	0	--	--
U.S. Total	5,884	3.06	10.6	6,688	0.34	5.9	3,047	0.86	14.9

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

Notes:
 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, August 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	4	3.09	8.6	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	4	3.09	8.6	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	4	3.09	8.6	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, August 2016

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	1	0.79	8.3	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	1	0.79	8.3	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	33	1.32	9.1	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	24	1.15	8.3	0	--	--	0	--	--
Pennsylvania	9	1.81	11.4	0	--	--	0	--	--
East North Central	106	3.55	8.7	72	0.26	4.6	0	--	--
Illinois	93	3.70	8.5	49	0.25	4.2	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	13	2.53	9.9	0	--	--	0	--	--
Wisconsin	0	--	--	23	0.27	5.4	0	--	--
West North Central	20	3.40	7.5	113	0.18	4.4	0	--	--
Iowa	20	3.40	7.5	113	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	62	1.63	13.9	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	10	1.13	10.4	0	--	--	0	--	--
Maryland	17	1.80	22.5	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	8	0.76	8.8	0	--	--	0	--	--
Virginia	26	2.00	12.0	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	105	0.87	8.0	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	105	0.87	8.0	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	49	0.42	8.7	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	49	0.42	8.7	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	55	0.53	11.2	0	--	--	0	--	--
California	55	0.53	11.2	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	437	1.63	9.5	185	0.21	4.5	0	--	--

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

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

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

**Table 5.1. Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2006 - August 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
August	155,863	134,232	85,121	633	375,848
Year to Date					
2014	968,143	906,771	665,926	5,241	2,546,081
2015	972,398	913,288	643,005	5,176	2,533,868
2016	963,035	912,498	629,434	5,021	2,509,987
Rolling 12 Months Ending in August					
2015	1,411,464	1,358,676	974,655	7,692	3,752,487
2016	1,390,520	1,357,628	944,991	7,504	3,700,643

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions. Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data. Values for 2014 and prior years are final. Values for 2016 and 2015 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.

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

**Table 5.2. Revenue from Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2006 - August 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
August	20,104	14,365	6,158	63	40,690
Year to Date					
2014	121,063	97,455	47,707	546	266,771
2015	122,960	97,054	44,712	532	265,259
2016	120,782	94,323	42,340	478	257,924
Rolling 12 Months Ending in August					
2015	178,076	144,852	67,860	796	391,584
2016	175,189	141,162	63,717	725	380,792

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions. Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data. Values for 2014 and prior years are final. Values for 2016 and 2015 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.

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

**Table 5.3. Average Price of Electricity to Ultimate Customers:
Total by End-Use Sector, 2006 - August 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
August	12.90	10.70	7.23	9.94	10.83
Year to Date					
2014	12.50	10.75	7.16	10.43	10.48
2015	12.65	10.63	6.95	10.28	10.47
2016	12.54	10.34	6.73	9.52	10.28
Rolling 12 Months Ending in August					
2015	12.62	10.66	6.96	10.35	10.44
2016	12.60	10.40	6.74	9.67	10.29

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	5,102	4,671	5,155	4,976	1,583	1,644	46	46	11,887	11,337
Connecticut	1,449	1,277	1,263	1,225	312	313	15	15	3,040	2,829
Maine	432	407	396	379	256	292	0	0	1,084	1,078
Massachusetts	2,213	2,037	2,515	2,407	635	653	29	28	5,391	5,125
New Hampshire	453	426	428	423	187	184	0	0	1,069	1,033
Rhode Island	369	342	363	356	70	79	2	2	805	780
Vermont	186	183	189	187	124	123	0	0	499	492
Middle Atlantic	15,439	13,691	15,515	14,888	6,277	6,149	325	311	37,555	35,040
New Jersey	3,881	3,420	3,839	3,638	651	631	25	24	8,396	7,713
New York	5,900	5,319	7,519	7,260	1,508	1,538	228	223	15,155	14,340
Pennsylvania	5,658	4,952	4,156	3,990	4,117	3,981	72	64	14,004	12,987
East North Central	21,015	17,836	18,419	16,848	16,740	16,427	46	47	56,220	51,157
Illinois	5,407	4,667	4,976	4,685	3,945	3,622	41	42	14,370	13,015
Indiana	3,570	3,091	2,464	2,273	3,704	3,871	2	2	9,740	9,237
Michigan	3,903	3,223	3,953	3,488	2,606	2,617	0	0	10,462	9,329
Ohio	5,917	4,899	4,725	4,289	4,257	4,130	3	3	14,901	13,320
Wisconsin	2,218	1,956	2,302	2,113	2,228	2,187	0	0	6,747	6,257
West North Central	10,553	9,672	9,900	9,403	7,842	8,075	4	3	28,298	27,154
Iowa	1,370	1,206	1,142	998	1,986	2,023	0	0	4,498	4,227
Kansas	1,585	1,478	1,607	1,553	976	998	0	0	4,168	4,029
Minnesota	2,085	1,893	2,184	2,126	1,826	1,768	2	2	6,097	5,788
Missouri	3,768	3,473	3,070	2,922	1,064	1,380	2	1	7,905	7,776
Nebraska	970	888	926	866	1,113	1,058	0	0	3,009	2,812
North Dakota	359	349	512	497	613	599	0	0	1,484	1,445
South Dakota	415	387	458	441	263	248	0	0	1,137	1,076
South Atlantic	39,084	36,066	30,894	29,435	12,472	12,767	111	117	82,561	78,385
Delaware	544	466	429	393	205	209	0	0	1,178	1,068
District of Columbia	286	236	822	789	11	17	28	31	1,148	1,073
Florida	13,110	12,571	9,101	9,045	1,443	1,494	9	8	23,663	23,118
Georgia	6,543	6,225	4,751	4,593	2,861	2,863	16	15	14,170	13,695
Maryland	2,956	2,586	3,003	2,775	373	328	42	47	6,374	5,736
North Carolina	6,296	5,610	4,914	4,543	2,480	2,510	1	1	13,691	12,663
South Carolina	3,475	3,214	2,299	2,123	2,434	2,693	0	0	8,208	8,030
Virginia	4,806	4,207	4,824	4,469	1,527	1,569	17	15	11,174	10,260
West Virginia	1,069	951	750	706	1,136	1,085	0	0	2,955	2,742
East South Central	13,175	12,490	9,309	8,759	8,702	9,059	0	0	31,187	30,309
Alabama	3,585	3,420	2,363	2,227	2,889	3,088	0	0	8,837	8,735
Kentucky	2,841	2,509	1,974	1,784	2,406	2,565	0	0	7,221	6,859
Mississippi	2,118	2,194	1,415	1,434	1,475	1,440	0	0	5,007	5,068
Tennessee	4,632	4,367	3,558	3,314	1,932	1,966	0	0	10,121	9,647
West South Central	25,838	25,576	19,825	19,775	15,188	15,084	18	17	60,870	60,453
Arkansas	2,011	2,072	1,239	1,249	1,466	1,524	0	0	4,716	4,846
Louisiana	3,455	3,748	2,427	2,543	2,917	2,932	1	1	8,799	9,223
Oklahoma	2,732	2,613	2,015	1,936	1,503	1,478	0	0	6,251	6,027
Texas	17,640	17,143	14,145	14,047	9,302	9,150	17	16	41,104	40,357
Mountain	11,032	10,895	9,139	9,298	7,528	7,962	12	11	27,711	28,166
Arizona	4,219	4,422	3,001	3,064	1,067	1,396	1	1	8,287	8,883
Colorado	1,911	1,929	1,892	1,910	1,458	1,415	5	5	5,266	5,259
Idaho	686	687	577	566	1,108	998	0	0	2,371	2,251
Montana	390	373	437	438	381	387	0	0	1,208	1,199
Nevada	1,855	1,595	985	1,013	1,191	1,358	1	1	4,032	3,967
New Mexico	717	704	838	868	672	679	0	0	2,226	2,251
Utah	1,047	986	1,077	1,101	802	860	5	5	2,931	2,952
Wyoming	208	200	331	337	851	868	0	0	1,390	1,404
Pacific Contiguous	14,227	12,794	15,566	14,493	8,325	8,248	71	74	38,189	35,609
California	10,196	8,889	11,497	10,479	5,041	4,901	68	71	26,802	24,340
Oregon	1,517	1,464	1,466	1,474	1,131	1,139	2	2	4,117	4,079
Washington	2,514	2,441	2,603	2,540	2,153	2,209	1	0	7,270	7,190
Pacific Noncontiguous	396	398	510	512	464	476	0	0	1,369	1,387
Alaska	147	144	227	233	122	114	0	0	496	491
Hawaii	249	255	283	279	341	362	0	0	873	896
U.S. Total	155,863	144,091	134,232	128,387	85,121	85,891	633	627	375,848	358,996

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 August 2016 and 2015 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	31,665	32,853	35,289	35,831	11,507	12,155	370	397	78,832	81,237
Connecticut	8,692	9,038	8,597	8,803	2,170	2,245	119	135	19,578	20,220
Maine	3,112	3,139	2,702	2,649	1,914	2,199	0	0	7,729	7,987
Massachusetts	13,336	13,949	17,157	17,460	4,628	4,921	232	244	35,353	36,574
New Hampshire	3,011	3,125	2,997	3,046	1,328	1,306	0	0	7,336	7,477
Rhode Island	2,128	2,165	2,482	2,513	522	544	18	19	5,151	5,241
Vermont	1,385	1,438	1,354	1,361	946	939	0	0	3,685	3,738
Middle Atlantic	91,330	94,131	106,208	107,449	47,380	48,235	2,557	2,614	247,476	252,429
New Jersey	20,404	20,731	25,937	26,219	4,667	4,825	202	207	51,211	51,982
New York	34,319	34,810	51,093	51,533	11,454	11,648	1,830	1,887	98,697	99,879
Pennsylvania	36,607	38,590	29,178	29,697	31,259	31,762	525	520	97,569	100,568
East North Central	129,469	127,774	125,292	124,407	124,774	127,404	388	404	379,923	379,990
Illinois	31,976	31,214	34,266	34,143	28,352	28,379	342	359	94,936	94,095
Indiana	22,514	22,850	16,360	16,414	28,427	30,329	14	14	67,315	69,607
Michigan	23,742	22,841	26,378	26,062	20,366	20,125	3	3	70,489	69,031
Ohio	36,319	36,515	32,224	31,953	31,664	32,653	29	28	100,236	101,150
Wisconsin	14,918	14,354	16,063	15,835	15,966	15,918	0	0	46,947	46,107
West North Central	70,539	70,487	68,939	68,872	56,439	58,990	30	31	195,947	198,380
Iowa	9,600	9,396	8,170	8,027	14,311	14,167	0	0	32,080	31,590
Kansas	9,401	9,394	10,566	10,527	7,138	7,264	0	0	27,105	27,185
Minnesota	14,701	14,609	15,652	15,746	13,207	13,772	16	17	43,576	44,143
Missouri	23,831	24,156	20,872	20,953	8,105	10,589	14	14	52,822	55,711
Nebraska	6,761	6,555	6,418	6,349	7,061	6,949	0	0	20,239	19,853
North Dakota	3,101	3,267	4,021	4,049	4,832	4,472	0	0	11,953	11,788
South Dakota	3,144	3,109	3,241	3,221	1,786	1,778	0	0	8,171	8,108
South Atlantic	246,896	251,751	210,509	209,670	92,483	95,886	903	923	550,791	558,230
Delaware	3,276	3,502	2,889	2,853	1,381	1,585	0	0	7,546	7,940
District of Columbia	1,710	1,793	5,752	5,675	136	194	226	236	7,824	7,898
Florida	82,262	81,780	63,249	62,901	11,022	11,251	65	64	156,597	155,996
Georgia	39,827	40,406	32,073	31,999	21,328	21,485	115	115	93,343	94,006
Maryland	19,150	19,961	20,052	20,415	2,540	2,523	369	368	42,111	43,267
North Carolina	40,267	41,325	32,782	32,529	18,070	18,357	5	6	91,124	92,217
South Carolina	21,403	21,666	15,100	14,900	17,937	19,795	0	0	54,440	56,360
Virginia	31,146	33,073	33,321	33,044	11,488	11,857	124	134	76,079	78,108
West Virginia	7,854	8,245	5,291	5,354	8,581	8,838	0	0	21,726	22,437
East South Central	81,825	85,208	60,981	60,421	65,710	69,178	0	0	208,516	214,806
Alabama	22,165	22,945	15,509	15,431	22,030	23,136	0	0	59,704	61,512
Kentucky	18,319	18,991	12,995	12,805	18,356	20,288	0	0	49,669	52,084
Mississippi	12,570	13,132	9,234	9,279	11,043	10,872	0	0	32,847	33,282
Tennessee	28,771	30,140	23,243	22,905	14,281	14,883	0	0	66,295	67,928
West South Central	146,397	150,162	131,172	132,695	114,427	111,307	126	125	392,121	394,289
Arkansas	12,141	12,990	8,035	8,140	10,638	10,664	0	0	30,815	31,794
Louisiana	20,494	21,883	16,381	16,694	22,326	21,345	8	8	59,209	59,930
Oklahoma	16,011	16,181	13,595	13,506	11,354	11,328	0	0	40,960	41,016
Texas	97,750	99,109	93,160	94,354	70,109	67,971	118	117	261,137	261,550
Mountain	67,397	64,612	63,788	63,090	56,091	56,733	89	89	187,366	184,525
Arizona	23,747	22,750	20,028	19,779	9,843	9,647	4	4	53,622	52,180
Colorado	12,937	12,370	13,646	13,355	10,236	10,236	43	42	36,863	36,004
Idaho	5,432	5,349	4,166	4,142	6,241	6,344	0	0	15,839	15,836
Montana	3,241	3,237	3,278	3,312	2,838	2,893	0	0	9,357	9,442
Nevada	9,118	8,510	6,522	6,449	9,225	9,384	6	6	24,870	24,349
New Mexico	4,643	4,518	5,975	5,947	4,966	4,912	0	0	15,584	15,378
Utah	6,426	6,080	7,699	7,464	6,108	6,491	37	37	20,270	20,071
Wyoming	1,853	1,798	2,474	2,641	6,635	6,825	0	0	10,962	11,265
Pacific Contiguous	94,507	92,388	106,427	106,916	57,262	59,823	557	592	258,753	259,719
California	59,301	57,328	76,164	76,288	33,159	34,236	538	573	169,162	168,425
Oregon	12,377	12,220	10,743	10,781	7,768	8,245	16	16	30,903	31,262
Washington	22,830	22,839	19,520	19,847	16,335	17,342	4	3	58,688	60,032
Pacific Noncontiguous	3,010	3,032	3,893	3,936	3,360	3,294	0	0	10,263	10,262
Alaska	1,301	1,330	1,827	1,854	904	879	0	0	4,032	4,063
Hawaii	1,709	1,702	2,066	2,082	2,456	2,415	0	0	6,231	6,199
U.S. Total	963,035	972,398	912,498	913,288	629,434	643,005	5,021	5,176	2,509,987	2,533,868

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	930	844	779	741	194	198	4	4	1,907	1,787
Connecticut	272	245	194	185	40	39	2	2	508	471
Maine	70	63	49	48	25	26	0	0	143	137
Massachusetts	405	366	395	370	85	87	2	2	887	826
New Hampshire	83	73	61	59	23	23	0	0	167	155
Rhode Island	69	65	53	52	9	10	0	0	132	127
Vermont	32	31	26	27	12	12	0	0	71	71
Middle Atlantic	2,473	2,254	2,055	2,034	456	454	37	37	5,021	4,779
New Jersey	630	570	507	500	70	71	2	2	1,209	1,144
New York	1,062	979	1,171	1,158	95	96	30	30	2,357	2,263
Pennsylvania	782	705	377	376	291	286	5	5	1,455	1,372
East North Central	2,711	2,350	1,823	1,692	1,184	1,162	3	3	5,721	5,207
Illinois	646	580	442	424	261	241	3	3	1,351	1,248
Indiana	405	345	240	214	264	256	0	0	910	816
Michigan	620	497	424	381	191	195	0	0	1,235	1,074
Ohio	722	641	462	431	290	293	0	0	1,474	1,366
Wisconsin	318	286	255	241	179	177	0	0	752	704
West North Central	1,352	1,219	1,020	955	614	608	0	0	2,987	2,783
Iowa	196	168	128	109	158	143	0	0	482	420
Kansas	209	184	167	157	73	74	0	0	449	415
Minnesota	273	246	222	214	139	133	0	0	635	593
Missouri	467	429	323	306	85	102	0	0	875	837
Nebraska	117	108	87	82	87	87	0	0	290	278
North Dakota	41	39	49	47	53	50	0	0	143	136
South Dakota	50	45	44	41	20	19	0	0	113	105
South Atlantic	4,685	4,343	2,866	2,797	834	875	9	10	8,394	8,025
Delaware	71	63	42	39	17	17	0	0	130	119
District of Columbia	36	31	94	91	1	2	3	3	134	126
Florida	1,504	1,479	824	863	115	128	1	1	2,443	2,471
Georgia	819	760	461	449	174	183	1	1	1,455	1,393
Maryland	409	361	323	307	29	30	3	4	764	701
North Carolina	715	652	436	404	167	169	0	0	1,319	1,226
South Carolina	443	405	238	219	155	169	0	0	836	793
Virginia	564	492	379	363	102	109	1	1	1,046	966
West Virginia	124	101	69	61	74	68	0	0	267	231
East South Central	1,437	1,359	939	901	532	593	0	0	2,908	2,853
Alabama	438	412	261	245	186	204	0	0	885	862
Kentucky	293	258	182	169	136	149	0	0	611	576
Mississippi	218	240	132	146	89	99	0	0	439	486
Tennessee	488	449	365	340	120	140	0	0	973	929
West South Central	2,752	2,817	1,555	1,576	826	879	1	1	5,134	5,273
Arkansas	209	215	103	107	95	104	0	0	407	427
Louisiana	326	360	207	220	153	164	0	0	685	743
Oklahoma	287	268	164	159	78	83	0	0	530	510
Texas	1,930	1,973	1,082	1,090	499	529	1	1	3,512	3,593
Mountain	1,335	1,339	915	946	546	570	1	1	2,796	2,856
Arizona	530	559	333	342	90	95	0	0	954	996
Colorado	244	240	193	194	108	104	1	1	545	539
Idaho	72	71	46	46	79	72	0	0	197	189
Montana	45	42	44	44	21	21	0	0	110	107
Nevada	201	197	79	92	93	118	0	0	373	407
New Mexico	93	94	89	97	40	44	0	0	222	234
Utah	124	113	99	100	55	57	0	0	279	271
Wyoming	24	23	31	31	60	59	0	0	116	112
Pacific Contiguous	2,330	2,006	2,300	2,232	882	851	7	7	5,519	5,095
California	1,925	1,621	1,955	1,900	709	680	7	6	4,596	4,208
Oregon	165	156	130	126	73	71	0	0	368	354
Washington	241	228	215	205	100	100	0	0	556	533
Pacific Noncontiguous	99	106	113	119	91	104	0	0	303	329
Alaska	31	30	42	43	18	17	0	0	92	90
Hawaii	68	76	71	76	72	87	0	0	211	239
U.S. Total	20,104	18,637	14,365	13,993	6,158	6,294	63	64	40,690	38,988

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	5,984	6,499	5,341	5,640	1,388	1,497	32	44	12,745	13,679
Connecticut	1,765	1,938	1,353	1,429	282	294	14	20	3,414	3,681
Maine	487	493	325	352	170	204	0	0	983	1,050
Massachusetts	2,550	2,825	2,664	2,787	606	658	15	21	5,835	6,291
New Hampshire	551	589	431	464	164	167	0	0	1,145	1,220
Rhode Island	392	410	372	410	71	78	3	3	839	901
Vermont	238	244	195	197	95	95	0	0	529	536
Middle Atlantic	14,336	15,132	13,280	14,228	3,351	3,621	280	311	31,247	33,292
New Jersey	3,228	3,333	3,253	3,452	480	540	18	22	6,979	7,347
New York	5,984	6,534	7,311	7,912	696	758	222	248	14,213	15,452
Pennsylvania	5,124	5,265	2,717	2,863	2,175	2,323	40	41	10,056	10,493
East North Central	16,654	16,357	12,270	12,321	8,555	8,784	27	30	37,506	37,493
Illinois	3,900	3,868	2,991	3,042	1,807	1,808	23	25	8,721	8,743
Indiana	2,514	2,530	1,563	1,576	1,948	2,032	1	1	6,027	6,140
Michigan	3,605	3,286	2,785	2,778	1,421	1,461	0	0	7,812	7,526
Ohio	4,487	4,609	3,158	3,173	2,138	2,238	2	3	9,785	10,023
Wisconsin	2,147	2,064	1,772	1,752	1,242	1,245	0	0	5,161	5,061
West North Central	8,329	8,104	6,590	6,440	4,033	4,101	3	3	18,955	18,647
Iowa	1,197	1,133	783	745	906	865	0	0	2,886	2,743
Kansas	1,224	1,153	1,093	1,057	533	541	0	0	2,850	2,750
Minnesota	1,857	1,796	1,534	1,509	960	984	2	2	4,353	4,290
Missouri	2,640	2,657	1,933	1,916	559	669	1	1	5,133	5,243
Nebraska	740	708	576	570	546	540	0	0	1,862	1,818
North Dakota	316	318	366	357	395	373	0	0	1,078	1,047
South Dakota	355	338	304	287	134	130	0	0	793	755
South Atlantic	28,836	29,637	19,592	20,074	5,924	6,342	71	77	54,423	56,131
Delaware	437	465	293	293	112	133	0	0	842	890
District of Columbia	220	230	672	680	12	17	21	22	925	949
Florida	9,239	9,644	5,767	6,107	858	943	5	6	15,870	16,699
Georgia	4,615	4,707	3,102	3,177	1,201	1,276	6	6	8,924	9,166
Maryland	2,717	2,717	2,193	2,281	200	224	29	32	5,139	5,254
North Carolina	4,491	4,634	2,847	2,829	1,128	1,183	0	0	8,467	8,645
South Carolina	2,666	2,682	1,532	1,511	1,075	1,195	0	0	5,273	5,388
Virginia	3,580	3,747	2,695	2,743	776	835	10	11	7,061	7,336
West Virginia	870	812	491	453	561	539	0	0	1,922	1,803
East South Central	8,755	9,141	6,110	6,215	3,775	4,189	0	0	18,640	19,544
Alabama	2,646	2,699	1,710	1,697	1,320	1,435	0	0	5,675	5,831
Kentucky	1,858	1,885	1,211	1,186	998	1,092	0	0	4,067	4,163
Mississippi	1,324	1,489	880	998	641	727	0	0	2,845	3,214
Tennessee	2,927	3,068	2,310	2,334	816	936	0	0	6,053	6,337
West South Central	15,429	16,499	10,142	10,560	5,882	6,291	7	7	31,460	33,357
Arkansas	1,198	1,266	654	671	627	656	0	0	2,479	2,593
Louisiana	1,847	2,011	1,379	1,439	1,086	1,152	1	1	4,313	4,602
Oklahoma	1,598	1,609	1,005	1,024	541	604	0	0	3,144	3,236
Texas	10,786	11,613	7,104	7,427	3,628	3,880	6	6	21,525	22,926
Mountain	7,875	7,727	6,100	6,203	3,573	3,771	9	9	17,557	17,711
Arizona	2,915	2,803	2,119	2,091	606	622	0	0	5,641	5,517
Colorado	1,541	1,493	1,296	1,313	716	727	4	4	3,557	3,538
Idaho	545	539	326	329	420	430	0	0	1,292	1,297
Montana	357	355	333	341	142	155	0	0	832	851
Nevada	1,038	1,093	526	603	551	655	0	1	2,115	2,352
New Mexico	554	575	584	630	286	312	0	0	1,424	1,518
Utah	719	672	682	656	393	407	4	4	1,798	1,738
Wyoming	206	196	233	240	459	463	0	0	899	900
Pacific Contiguous	13,851	13,075	14,064	14,467	5,222	5,410	50	51	33,187	33,004
California	10,409	9,756	11,485	11,919	4,015	4,143	48	49	25,957	25,868
Oregon	1,307	1,301	949	950	474	500	1	1	2,732	2,753
Washington	2,135	2,018	1,629	1,598	734	767	0	0	4,498	4,383
Pacific Noncontiguous	732	789	833	906	637	706	0	0	2,203	2,401
Alaska	267	267	332	330	138	131	0	0	737	729
Hawaii	466	522	501	575	499	575	0	0	1,466	1,672
U.S. Total	120,782	122,960	94,323	97,054	42,340	44,712	478	532	257,924	265,259

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.

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Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	18.23	18.06	15.10	14.89	12.28	12.02	8.98	9.80	16.05	15.76
Connecticut	18.76	19.23	15.36	15.10	12.80	12.56	12.25	11.70	16.70	16.66
Maine	16.12	15.49	12.33	12.65	9.76	8.87	--	--	13.23	12.70
Massachusetts	18.32	17.99	15.70	15.39	13.36	13.35	6.49	8.15	16.45	16.13
New Hampshire	18.23	17.13	14.30	14.04	12.32	12.26	--	--	15.62	15.00
Rhode Island	18.57	18.86	14.63	14.47	13.46	12.93	18.96	18.06	16.35	16.25
Vermont	17.27	17.11	13.97	14.40	9.95	10.11	--	--	14.21	14.33
Middle Atlantic	16.02	16.46	13.24	13.66	7.26	7.38	11.53	12.02	13.37	13.64
New Jersey	16.22	16.66	13.19	13.75	10.81	11.33	9.42	10.06	14.40	14.83
New York	18.00	18.41	15.57	15.95	6.28	6.24	13.02	13.47	15.55	15.78
Pennsylvania	13.81	14.24	9.08	9.42	7.06	7.20	7.55	7.68	10.39	10.57
East North Central	12.90	13.17	9.90	10.04	7.07	7.08	6.88	7.15	10.18	10.18
Illinois	11.94	12.42	8.88	9.05	6.61	6.65	6.66	6.70	9.40	9.59
Indiana	11.35	11.16	9.74	9.44	7.13	6.62	9.49	9.24	9.34	8.83
Michigan	15.87	15.43	10.74	10.94	7.31	7.46	11.20	11.83	11.80	11.51
Ohio	12.20	13.09	9.78	10.05	6.80	7.10	7.89	12.28	9.89	10.25
Wisconsin	14.33	14.64	11.08	11.39	8.04	8.08	15.00	--	11.15	11.25
West North Central	12.81	12.60	10.30	10.16	7.83	7.54	10.91	10.72	10.55	10.25
Iowa	14.28	13.92	11.24	10.92	7.95	7.05	--	--	10.72	9.92
Kansas	13.17	12.44	10.41	10.11	7.43	7.45	--	--	10.76	10.31
Minnesota	13.11	12.97	10.16	10.05	7.62	7.54	10.45	9.74	10.41	10.24
Missouri	12.40	12.37	10.52	10.46	7.96	7.40	11.44	11.96	11.07	10.77
Nebraska	12.02	12.19	9.35	9.48	7.78	8.25	--	--	9.63	9.87
North Dakota	11.38	11.16	9.57	9.46	8.71	8.33	--	--	9.66	9.40
South Dakota	11.93	11.72	9.57	9.31	7.50	7.54	--	--	9.95	9.76
South Atlantic	11.99	12.04	9.28	9.50	6.69	6.85	7.90	8.13	10.17	10.24
Delaware	13.00	13.55	9.87	10.00	8.08	8.13	--	--	11.00	11.18
District of Columbia	12.48	13.03	11.47	11.49	8.94	9.31	9.15	9.03	11.64	11.72
Florida	11.47	11.77	9.05	9.54	7.99	8.58	8.00	8.88	10.33	10.69
Georgia	12.52	12.20	9.70	9.78	6.07	6.39	6.23	7.22	10.27	10.17
Maryland	13.83	13.95	10.75	11.07	7.86	9.01	7.90	7.80	11.99	12.23
North Carolina	11.36	11.63	8.88	8.90	6.73	6.75	7.74	7.81	9.63	9.68
South Carolina	12.76	12.59	10.36	10.32	6.35	6.27	--	--	10.19	9.87
Virginia	11.74	11.69	7.85	8.13	6.69	6.98	7.28	7.82	9.36	9.41
West Virginia	11.57	10.63	9.20	8.70	6.54	6.27	--	--	9.04	8.41
East South Central	10.91	10.88	10.09	10.28	6.11	6.54	--	--	9.33	9.41
Alabama	12.22	12.05	11.03	11.02	6.43	6.60	--	--	10.01	9.86
Kentucky	10.31	10.27	9.21	9.45	5.66	5.82	--	--	8.46	8.39
Mississippi	10.31	10.96	9.30	10.21	6.06	6.90	--	--	8.78	9.59
Tennessee	10.54	10.28	10.26	10.27	6.23	7.13	--	--	9.62	9.63
West South Central	10.65	11.01	7.84	7.97	5.44	5.83	5.62	5.50	8.43	8.72
Arkansas	10.38	10.39	8.28	8.58	6.50	6.82	12.42	12.40	8.62	8.80
Louisiana	9.43	9.60	8.51	8.64	5.23	5.58	9.33	8.89	7.79	8.06
Oklahoma	10.51	10.27	8.16	8.22	5.20	5.62	--	--	8.48	8.47
Texas	10.94	11.51	7.65	7.76	5.37	5.78	5.39	5.30	8.54	8.90
Mountain	12.10	12.29	10.01	10.18	7.25	7.15	9.94	10.09	10.09	10.14
Arizona	12.56	12.64	11.10	11.17	8.46	6.83	11.39	11.09	11.51	11.22
Colorado	12.79	12.47	10.20	10.18	7.37	7.34	10.19	10.37	10.36	10.25
Idaho	10.51	10.29	8.02	8.13	7.13	7.20	--	--	8.33	8.38
Montana	11.50	11.31	10.16	9.98	5.44	5.52	--	--	9.10	8.95
Nevada	10.83	12.36	7.98	9.12	7.84	8.67	8.15	9.63	9.25	10.27
New Mexico	13.02	13.35	10.64	11.13	5.89	6.45	--	--	9.97	10.41
Utah	11.89	11.45	9.18	9.12	6.87	6.62	9.83	10.14	9.52	9.17
Wyoming	11.75	11.50	9.45	9.12	7.07	6.75	--	--	8.34	8.00
Pacific Contiguous	16.38	15.68	14.78	15.40	10.59	10.31	9.51	8.95	14.45	14.31
California	18.88	18.24	17.01	18.14	14.07	13.87	9.52	8.94	17.15	17.29
Oregon	10.86	10.68	8.87	8.58	6.43	6.23	9.27	9.25	8.93	8.68
Washington	9.57	9.36	8.27	8.06	4.64	4.53	8.99	8.57	7.64	7.42
Pacific Noncontiguous	25.08	26.67	22.20	23.18	19.55	21.95	--	--	22.13	23.76
Alaska	21.07	21.01	18.70	18.26	15.02	15.19	--	--	18.49	18.35
Hawaii	27.45	29.87	25.01	27.28	21.17	24.07	--	--	24.20	26.72
U.S. Total	12.90	12.93	10.70	10.90	7.23	7.33	9.94	10.18	10.83	10.86

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.

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

Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD	August 2016 YTD	August 2015 YTD
New England	18.90	19.78	15.14	15.74	12.06	12.31	8.66	11.02	16.17	16.84
Connecticut	20.31	21.44	15.74	16.24	12.99	13.11	11.46	14.63	17.44	18.20
Maine	15.65	15.71	12.04	13.31	8.91	9.29	--	--	12.72	13.15
Massachusetts	19.12	20.25	15.53	15.96	13.09	13.38	6.44	8.51	16.51	17.20
New Hampshire	18.28	18.86	14.39	15.24	12.32	12.78	--	--	15.61	16.32
Rhode Island	18.43	18.95	14.99	16.30	13.58	14.26	18.60	17.73	16.28	17.19
Vermont	17.21	16.94	14.41	14.46	10.06	10.13	--	--	14.35	14.33
Middle Atlantic	15.70	16.08	12.50	13.24	7.07	7.51	10.96	11.90	12.63	13.19
New Jersey	15.82	16.08	12.54	13.17	10.29	11.18	8.89	10.47	13.63	14.13
New York	17.44	18.77	14.31	15.35	6.08	6.50	12.12	13.15	14.40	15.47
Pennsylvania	14.00	13.64	9.31	9.64	6.96	7.32	7.71	7.90	10.31	10.43
East North Central	12.86	12.80	9.79	9.90	6.86	6.89	6.92	7.45	9.87	9.87
Illinois	12.20	12.39	8.73	8.91	6.37	6.37	6.71	6.94	9.19	9.29
Indiana	11.17	11.07	9.55	9.60	6.85	6.70	9.50	9.99	8.95	8.82
Michigan	15.19	14.39	10.56	10.66	6.98	7.26	11.47	11.43	11.08	10.90
Ohio	12.35	12.62	9.80	9.93	6.75	6.85	7.69	12.25	9.76	9.91
Wisconsin	14.39	14.38	11.03	11.06	7.78	7.82	14.50	--	10.99	10.98
West North Central	11.81	11.50	9.56	9.35	7.15	6.95	9.29	8.99	9.67	9.40
Iowa	12.47	12.06	9.59	9.29	6.33	6.10	--	--	9.00	8.68
Kansas	13.02	12.27	10.35	10.04	7.46	7.44	--	--	10.51	10.12
Minnesota	12.63	12.29	9.80	9.58	7.27	7.14	10.08	9.52	9.99	9.72
Missouri	11.08	11.00	9.26	9.14	6.89	6.32	8.40	8.35	9.72	9.41
Nebraska	10.94	10.81	8.98	8.98	7.74	7.77	--	--	9.20	9.16
North Dakota	10.20	9.74	9.11	8.80	8.18	8.33	--	--	9.02	8.89
South Dakota	11.29	10.87	9.37	8.91	7.51	7.30	--	--	9.70	9.31
South Atlantic	11.68	11.77	9.31	9.57	6.41	6.61	7.87	8.38	9.88	10.06
Delaware	13.35	13.27	10.14	10.26	8.10	8.37	--	--	11.16	11.21
District of Columbia	12.88	12.83	11.68	11.99	9.07	8.79	9.33	9.25	11.83	12.02
Florida	11.23	11.79	9.12	9.71	7.78	8.38	8.26	8.70	10.13	10.70
Georgia	11.59	11.65	9.67	9.93	5.63	5.94	5.09	5.56	9.56	9.75
Maryland	14.19	13.61	10.93	11.17	7.87	8.87	7.79	8.67	12.20	12.14
North Carolina	11.15	11.21	8.69	8.70	6.24	6.44	7.84	7.88	9.29	9.38
South Carolina	12.46	12.38	10.15	10.14	5.99	6.04	--	--	9.69	9.56
Virginia	11.49	11.33	8.09	8.30	6.75	7.04	7.81	8.27	9.28	9.39
West Virginia	11.07	9.84	9.28	8.46	6.54	6.09	--	--	8.85	8.04
East South Central	10.70	10.73	10.02	10.29	5.74	6.06	--	--	8.94	9.10
Alabama	11.94	11.76	11.02	11.00	5.99	6.20	--	--	9.51	9.48
Kentucky	10.14	9.92	9.32	9.26	5.44	5.38	--	--	8.19	7.99
Mississippi	10.53	11.34	9.53	10.76	5.81	6.69	--	--	8.66	9.66
Tennessee	10.17	10.18	9.94	10.19	5.71	6.29	--	--	9.13	9.33
West South Central	10.54	10.99	7.73	7.96	5.14	5.65	5.64	5.54	8.02	8.46
Arkansas	9.86	9.75	8.14	8.24	5.89	6.15	9.69	11.05	8.04	8.16
Louisiana	9.01	9.19	8.42	8.62	4.86	5.40	8.98	8.48	7.28	7.68
Oklahoma	9.98	9.94	7.39	7.58	4.77	5.33	--	--	7.68	7.89
Texas	11.03	11.72	7.63	7.87	5.17	5.71	5.40	5.33	8.24	8.77
Mountain	11.68	11.96	9.56	9.83	6.37	6.65	9.58	10.01	9.37	9.60
Arizona	12.28	12.32	10.58	10.57	6.15	6.45	9.40	9.31	10.52	10.57
Colorado	11.91	12.07	9.49	9.83	6.99	7.11	9.50	10.15	9.65	9.83
Idaho	10.04	10.08	7.83	7.94	6.73	6.77	--	--	8.15	8.19
Montana	11.02	10.98	10.16	10.28	5.01	5.35	--	--	8.90	9.01
Nevada	11.38	12.85	8.07	9.35	5.97	6.98	7.86	9.16	8.51	9.66
New Mexico	11.93	12.74	9.78	10.60	5.76	6.36	--	--	9.14	9.87
Utah	11.18	11.06	8.86	8.78	6.43	6.27	9.96	10.06	8.87	8.66
Wyoming	11.14	10.92	9.43	9.10	6.92	6.78	--	--	8.20	7.99
Pacific Contiguous	14.66	14.15	13.21	13.53	9.12	9.04	8.89	8.64	12.83	12.71
California	17.55	17.02	15.08	15.62	12.11	12.10	8.88	8.62	15.34	15.36
Oregon	10.56	10.65	8.84	8.81	6.11	6.06	9.24	9.18	8.84	8.81
Washington	9.35	8.84	8.35	8.05	4.49	4.42	9.01	8.64	7.66	7.30
Pacific Noncontiguous	24.33	26.02	21.40	23.01	18.97	21.44	--	--	21.46	23.40
Alaska	20.49	20.08	18.18	17.82	15.29	14.95	--	--	18.28	17.94
Hawaii	27.25	30.66	24.24	27.63	20.32	23.80	--	--	23.52	26.97
U.S. Total	12.54	12.65	10.34	10.63	6.73	6.95	9.52	10.28	10.28	10.47

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 - August 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
August	131,378,639	18,232,065	833,219	82	150,444,005
Rolling 12 Months Ending in August					
2015	129,467,276	17,920,942	822,333	76	148,210,626
2016	130,674,243	18,112,533	814,075	80	149,600,931

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:
August 2016 and 2015**

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	6,306,182	6,278,226	882,840	865,533	26,071	26,288	6	6	7,215,099	7,170,053
Connecticut	1,488,296	1,466,869	152,416	150,318	4,407	4,386	3	3	1,645,122	1,621,576
Maine	711,183	708,209	100,401	92,638	3,095	3,050	0	0	814,679	803,897
Massachusetts	2,736,589	2,743,298	406,919	405,245	13,267	13,541	2	2	3,156,777	3,162,086
New Hampshire	615,928	608,048	108,552	105,167	3,269	3,241	0	0	727,749	716,456
Rhode Island	440,150	438,964	59,110	58,705	1,820	1,857	1	1	501,081	499,527
Vermont	314,036	312,838	55,442	53,460	213	213	0	0	369,691	366,511
Middle Atlantic	15,961,237	15,885,165	2,289,793	2,263,649	42,614	43,414	20	18	18,293,664	18,192,246
New Jersey	3,518,609	3,496,359	515,476	512,244	11,846	12,075	6	6	4,045,937	4,020,684
New York	7,107,163	7,081,337	1,075,553	1,059,406	7,598	7,697	8	6	8,190,322	8,148,446
Pennsylvania	5,335,465	5,307,469	698,764	691,999	23,170	23,642	6	6	6,057,405	6,023,116
East North Central	19,983,395	19,819,925	2,474,363	2,453,945	52,300	52,259	8	7	22,510,066	22,326,136
Illinois	5,239,478	5,179,253	605,993	601,572	5,521	5,519	3	3	5,850,995	5,786,347
Indiana	2,810,104	2,784,510	348,311	345,775	17,497	17,456	1	1	3,175,913	3,147,742
Michigan	4,328,946	4,297,165	544,680	536,861	NM	5,639	1	1	4,879,376	4,839,666
Ohio	4,928,018	4,897,675	624,501	619,634	18,785	18,909	2	2	5,571,306	5,536,220
Wisconsin	2,676,849	2,661,322	350,878	350,103	NM	4,736	1	0	3,032,476	3,016,161
West North Central	9,386,191	9,290,396	1,440,000	1,418,321	114,895	113,202	3	2	10,941,089	10,821,921
Iowa	1,369,901	1,363,719	240,508	230,370	NM	6,753	0	0	1,617,259	1,600,842
Kansas	1,261,519	1,249,876	233,697	231,022	26,058	26,340	0	0	1,521,274	1,507,238
Minnesota	2,368,966	2,340,111	285,611	281,696	NM	7,945	1	1	2,662,781	2,629,753
Missouri	2,768,285	2,744,333	376,183	373,006	8,340	8,442	2	1	3,152,810	3,125,782
Nebraska	846,310	834,401	159,084	157,310	54,468	53,373	0	0	1,059,862	1,045,084
North Dakota	375,518	368,047	72,435	70,365	7,921	7,456	0	0	455,874	445,868
South Dakota	395,692	389,909	72,482	74,552	NM	2,893	0	0	471,229	467,354
South Atlantic	27,286,292	26,903,304	3,754,935	3,702,154	80,027	78,990	13	11	31,121,267	30,684,459
Delaware	419,173	414,035	53,157	52,449	1,120	1,133	0	0	473,450	467,617
District of Columbia	259,828	247,944	25,892	25,835	1	1	3	1	285,724	273,781
Florida	9,135,069	9,000,895	1,214,830	1,199,287	20,751	20,138	2	2	10,370,652	10,220,322
Georgia	4,274,482	4,214,608	577,307	569,268	19,365	18,383	1	1	4,871,155	4,802,260
Maryland	2,292,783	2,256,292	250,757	248,370	8,820	8,814	5	5	2,552,365	2,513,481
North Carolina	4,444,413	4,379,235	696,955	681,465	10,020	10,132	1	1	5,151,389	5,070,833
South Carolina	2,231,552	2,196,477	360,606	354,951	4,470	4,591	0	0	2,596,628	2,556,019
Virginia	3,370,878	3,334,508	432,460	428,754	3,792	3,811	1	1	3,807,131	3,767,074
West Virginia	858,114	859,310	142,971	141,775	11,688	11,987	0	0	1,012,773	1,013,072
East South Central	8,333,753	8,248,812	1,383,549	1,365,626	25,024	25,234	0	0	9,742,326	9,639,672
Alabama	2,225,027	2,201,567	368,696	363,355	8,170	8,206	0	0	2,601,893	2,573,128
Kentucky	1,972,007	1,957,852	298,058	295,770	7,658	7,764	0	0	2,277,723	2,261,386
Mississippi	1,299,854	1,286,714	238,216	233,848	7,844	7,848	0	0	1,545,914	1,528,410
Tennessee	2,836,865	2,802,679	478,579	472,653	1,352	1,416	0	0	3,316,796	3,276,748
West South Central	15,662,636	15,316,882	2,199,064	2,204,771	187,812	194,815	6	6	18,049,518	17,716,474
Arkansas	1,375,538	1,362,136	190,459	187,302	41,440	41,142	2	2	1,607,439	1,590,582
Louisiana	2,071,608	2,050,650	292,883	289,588	18,769	18,722	1	1	2,383,261	2,358,961
Oklahoma	1,754,014	1,732,455	282,635	278,763	18,066	18,223	0	0	2,054,715	2,029,441
Texas	10,461,476	10,171,641	1,433,087	1,449,118	109,537	116,728	3	3	12,004,103	11,737,490
Mountain	9,524,794	9,389,637	1,369,117	1,350,978	90,829	91,082	4	4	10,984,744	10,831,701
Arizona	2,706,937	2,671,503	316,281	313,224	6,776	6,734	1	1	3,029,995	2,991,462
Colorado	2,260,095	2,226,380	357,975	353,943	14,701	14,756	1	1	2,632,772	2,595,080
Idaho	714,912	702,300	107,417	105,492	28,275	27,841	0	0	850,604	835,633
Montana	500,112	493,407	107,205	105,542	9,658	9,430	0	0	616,975	608,379
Nevada	1,149,748	1,128,703	162,196	160,296	3,529	3,510	1	1	1,315,474	1,292,510
New Mexico	888,895	881,527	138,065	136,938	8,594	8,636	0	0	1,035,554	1,027,101
Utah	1,033,370	1,017,075	121,319	117,273	9,582	10,559	1	1	1,164,272	1,144,908
Wyoming	270,725	268,742	58,659	58,270	9,714	9,616	0	0	339,098	336,628
Pacific Contiguous	18,218,125	17,781,188	2,324,195	2,244,347	211,468	198,007	22	21	20,753,810	20,223,563
California	13,506,395	13,159,205	1,708,952	1,643,985	155,693	144,275	15	13	15,371,055	14,947,478
Oregon	1,719,973	1,696,036	235,428	232,251	26,450	25,103	2	2	1,981,853	1,953,392
Washington	2,991,757	2,925,947	379,815	368,111	29,325	28,629	5	6	3,400,902	3,322,693
Pacific Noncontiguous	716,034	712,986	114,209	111,608	NM	2,060	0	0	832,422	826,654
Alaska	285,192	284,371	53,005	50,688	NM	NM	0	0	339,579	336,393
Hawaii	430,842	428,615	61,204	60,920	797	726	0	0	492,843	490,261
U.S. Total	131,378,639	129,626,521	18,232,065	17,980,932	833,219	825,351	82	75	150,444,005	148,432,879

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.

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

Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

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

Technology	Capacity Source	As of End of July 2016	Activity During August 2016 as Reported to EIA		As of End of August 2016	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
			Total In-Service Capacity	Actual Capacity Additions		Actual Capacity Reductions	Total In-Service Capacity	Current Month	Year to Date	Past 12 Months	Planned Capacity Additions	Planned Capacity Reductions	Planned Net Change	Planned Total Net Summer		
									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	74,707.3	25.8	0.0	74,733.1	25.8	2,155.2	6,232.5	311.6	7,081.0	0.0	0.0	311.6	7,081.0	75,044.7	81,814.1
..... 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	74,707.3	25.8	0.0	74,733.1	25.8	2,155.2	6,232.5	311.6	7,110.3	0.0	0.0	311.6	7,110.3	75,044.7	81,843.4
..... Solar Photovoltaic	Utility Scale Facilities	13,922.1	940.1	0.0	14,862.2	940.1	3,232.5	4,964.3	1,012.9	6,673.7	0.0	0.0	1,012.9	6,673.7	15,875.1	21,535.9
..... 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	15,680.0	940.1	0.0	16,620.1	940.1	3,213.7	5,055.5	1,012.9	6,673.7	0.0	0.0	1,012.9	6,673.7	17,633.0	23,293.8
..... Conventional Hydroelectric	Utility Scale Facilities	80,006.9	39.6	104.6	79,941.9	-65.0	200.2	230.2	6.5	323.2	0.0	110.4	6.5	212.8	79,948.4	80,154.7
..... Wood/Wood Waste Biomass	Utility Scale Facilities	8,954.3	0.0	18.0	8,936.3	-18.0	381.9	388.9	0.0	70.5	0.0	10.5	0.0	60.0	8,936.3	8,996.3
..... Landfill Gas	Utility Scale Facilities	2,108.2	1.4	1.0	2,108.6	0.4	-9.0	-8.0	13.8	23.9	0.0	9.0	13.8	14.9	2,122.4	2,123.5
..... Municipal Solid Waste	Utility Scale Facilities	2,247.1	0.0	0.0	2,247.1	0.0	-6.8	-6.8	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	1.4	0.0	808.7	1.4	-29.8	-27.0	0.0	23.2	0.0	0.8	0.0	22.4	808.7	831.1
..... Biomass Sources Subtotal	Utility Scale Facilities	14,116.9	2.8	19.0	14,100.7	-16.2	336.3	347.1	13.8	117.6	0.0	22.3	13.8	95.3	14,114.5	14,196.0
..... Geothermal	Utility Scale Facilities	2,541.5	0.0	0.0	2,541.5	0.0	11.3	13.1	0.0	0.0	0.0	30.0	0.0	-30.0	2,541.5	2,511.5
... Renewable Sources Subtotal	Utility Scale Facilities	187,052.6	1,008.3	123.6	187,937.3	884.7	5,916.7	11,878.4	1,344.8	14,224.8	0.0	162.7	1,344.8	14,062.1	189,282.1	201,999.4
..... Natural Gas Fired Combined Cycle	Utility Scale Facilities	239,446.2	78.0	41.5	239,482.7	36.5	5,128.4	6,569.3	0.0	9,195.6	0.0	95.0	0.0	9,100.6	239,482.7	248,583.3
..... Natural Gas Fired Combustion Turbine	Utility Scale Facilities	124,681.2	41.2	68.2	124,654.2	-27.0	-166.0	-137.4	832.2	1,298.5	0.0	132.3	832.2	1,166.2	125,486.4	125,820.4
..... Natural Gas Steam Turbine	Utility Scale Facilities	79,359.3	87.0	92.0	79,354.3	-5.0	3,602.7	2,757.2	3.8	47.0	0.0	454.0	3.8	-407.0	79,358.1	78,947.3
..... Natural Gas Internal Combustion Engine	Utility Scale Facilities	3,810.3	0.0	0.0	3,810.3	0.0	228.9	251.1	219.6	453.5	0.9	4.2	218.7	449.3	4,029.0	4,259.6
..... 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	5.3	0.0	7.0	0.0	0.0	0.0	7.0	107.1	114.1
..... Natural Gas Subtotal	Utility Scale Facilities	447,514.1	206.2	201.7	447,518.6	4.5	8,795.1	9,445.5	1,055.6	11,001.6	0.9	685.5	1,054.7	10,316.1	448,573.3	457,834.7
..... Conventional Steam Coal	Utility Scale Facilities	271,606.9	0.0	714.0	270,892.9	-714.0	-12,817.8	-16,425.8	0.0	11.0	0.0	3,348.1	0.0	-3,337.1	270,892.9	267,555.8
..... 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	272,421.9	0.0	714.0	271,707.9	-714.0	-12,793.8	-16,401.8	0.0	11.0	0.0	3,348.1	0.0	-3,337.1	271,707.9	268,370.8
..... 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	34,865.8	0.0	62.0	34,803.8	-62.0	-1,993.5	-2,090.9	0.0	35.3	0.7	621.0	-0.7	-585.7	34,803.1	34,218.1
..... Other Gases	Utility Scale Facilities	2,500.4	0.0	3.2	2,497.2	-3.2	582.9	582.9	0.0	0.0	0.0	0.0	0.0	0.0	2,497.2	2,497.2
... Fossil Fuels Subtotal	Utility Scale Facilities	758,842.5	206.2	980.9	758,067.8	-774.7	-6,059.2	-9,114.2	1,055.6	11,047.9	1.6	4,654.6	1,054.0	6,393.3	759,121.8	764,461.1
..... 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	4.0	0.0	328.2	4.0	82.5	137.6	40.0	98.6	0.0	40.0	98.6	368.2	426.8	
... Energy Storage Subtotal	Utility Scale Facilities	23,036.3	4.0	0.0	23,040.3	4.0	193.5	248.6	40.0	212.6	0.0	40.0	212.6	23,080.3	23,252.9	
... 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	15.0	0.0	1,484.8	15.0	-124.0	-124.0	0.0	1.5	0.0	0.0	0.0	1.5	1,484.8	1,486.3
TOTAL	UTILITY SCALE FACILITIES	1,070,195.2	1,233.5	1,104.5	1,070,324.2	129.0	992.0	3,953.8	2,440.4	25,506.8	1.6	7,197.2	2,438.8	18,309.6	1,072,763.0	1,088,633.8
..... Estimated Distributed Solar Photovoltaic	Distributed Facilities	11,776.0			12,058.6	282.6	2,280.1	3,357.7								
..... Estimated Total Solar Photovoltaic	All Facilities	25,698.1			26,920.8	1,222.7	5,512.6	8,322.0								
... Estimated Total Solar	All Facilities	27,456.0			28,678.7	1,222.7	5,493.8	8,413.2								

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 non-photovoltaic facilities with a total generator nameplate capacity less than 1 MW are excluded from this table.
 Distributed generation and capacity have been updated and finalized for 2014 and 2015; distributed data for 2016 have also been refreshed.

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 - August 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	7,326.6	15,983.2
2015	11,629.7	9,778.5	21,408.2
Year 2014			
January	5,688.0	5,612.6	11,300.6
February	5,839.2	5,728.2	11,567.4
March	5,967.9	5,853.0	11,820.9
April	6,188.0	5,978.9	12,166.9
May	6,368.8	6,111.6	12,480.4
June	6,564.1	6,227.2	12,791.3
July	6,706.3	6,369.2	13,075.5
August	7,105.0	6,603.0	13,708.0
Sept	7,215.1	6,749.8	13,964.9
October	7,575.3	6,922.0	14,497.3
November	8,005.3	7,078.0	15,083.3
December	8,656.6	7,326.6	15,983.2
Year 2015			
January	8,818.7	7,369.4	16,188.1
February	8,975.4	7,529.1	16,504.5
March	9,036.5	7,696.7	16,733.2
April	9,119.2	7,860.3	16,979.5
May	9,329.5	8,050.6	17,380.1
June	9,598.3	8,235.9	17,834.2
July	9,686.2	8,479.1	18,165.3
August	9,897.9	8,700.9	18,598.8
Sept	10,001.7	8,951.5	18,953.2
October	10,104.3	9,188.4	19,292.7
November	10,419.4	9,416.7	19,836.1
December	11,629.7	9,778.5	21,408.2
Year 2016			
January	11,831.6	10,298.1	22,129.7
February	12,117.7	10,510.9	22,628.6
March	12,307.0	10,870.9	23,177.9
April	12,880.6	10,960.4	23,841.0
May	13,005.3	11,192.3	24,197.6
June	13,189.8	11,568.7	24,758.5
July	13,922.1	11,776.0	25,698.1
August	14,862.2	12,058.6	26,920.8

Values are preliminary.

Distributed generation and capacity have been updated and finalized for 2014 and 2015; distributed data for 2016 have also been refreshed.

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

Period	Residential	Commercial	Industrial	Total
Annual Totals				
2014	3,346.3	3,279.7	700.6	7,326.6
2015	5,191.5	3,706.7	880.3	9,778.5
Year 2014				
January	2,285.2	2,766.5	561.0	5,612.6
February	2,354.4	2,804.9	568.9	5,728.2
March	2,428.2	2,848.7	576.2	5,853.0
April	2,506.9	2,883.8	588.2	5,978.9
May	2,588.3	2,930.2	593.0	6,111.6
June	2,677.6	2,946.1	603.5	6,227.2
July	2,765.0	2,989.0	615.1	6,369.2
August	2,873.0	3,096.4	633.6	6,603.0
Sept	2,980.3	3,128.7	640.9	6,749.8
October	3,092.8	3,162.3	667.0	6,922.0
November	3,191.8	3,203.2	683.0	7,078.0
December	3,346.3	3,279.7	700.6	7,326.6
Year 2015				
January	3,424.8	3,227.0	717.6	7,369.4
February	3,550.2	3,245.1	733.7	7,529.1
March	3,689.3	3,268.3	739.1	7,696.7
April	3,816.3	3,294.6	749.4	7,860.3
May	3,949.5	3,336.6	764.5	8,050.6
June	4,110.7	3,356.2	768.9	8,235.9
July	4,275.5	3,414.5	789.1	8,479.1
August	4,440.5	3,455.9	804.5	8,700.9
Sept	4,635.1	3,498.9	817.4	8,951.5
October	4,815.7	3,540.5	832.2	9,188.4
November	4,972.5	3,593.4	850.8	9,416.7
December	5,191.5	3,706.7	880.3	9,778.5
Year 2016				
January	5,290.5	4,140.3	867.4	10,298.1
February	5,489.8	4,136.1	885.0	10,510.9
March	5,754.4	4,201.3	915.1	10,870.9
April	5,924.4	4,096.0	940.1	10,960.4
May	6,105.4	4,137.4	949.5	11,192.3
June	6,351.9	4,236.1	980.7	11,568.7
July	6,512.3	4,265.5	998.2	11,776.0
August	6,704.5	4,337.1	1,017.0	12,058.6

Values are preliminary.

Distributed generation and capacity have been updated and finalized for 2014 and 2015; distributed data for 2016 have also been refreshed.

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

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

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
	New England	5,074.8	4,603.3	22,722.5	22,843.2	1,797.4	1,775.4	2.0	3.0	4,018.0	4,046.3	48.0	52.9	33,662.7
Connecticut	333.6	331.4	6,307.1	6,269.8	29.4	29.4	0.0	0.0	2,087.8	2,122.5	26.0	30.9	8,783.9	8,784.0
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	989.3	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	13,252.6	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	67.8	51.3	1,791.3	1,761.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,859.1	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	10,673.2	10,580.2	69,286.8	67,525.6	3,409.1	3,409.1	40.0	40.0	19,224.5	19,321.3	11.2	11.2	102,644.8	100,887.4
New Jersey	708.9	671.6	13,584.3	12,511.4	420.0	420.0	0.0	0.0	4,107.9	4,110.1	11.2	11.2	18,832.3	17,724.3
New York	7,110.1	7,049.0	25,956.4	26,520.7	1,406.1	1,406.1	20.0	20.0	5,397.6	5,431.4	0.0	0.0	39,890.2	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	10,219.5	9,978.8	113,809.1	117,041.1	2,037.0	1,945.0	127.6	59.0	18,896.1	18,873.3	110.1	109.1	145,199.4	148,006.3
Illinois	3,977.0	3,980.1	29,430.4	30,013.3	0.0	0.0	72.6	33.0	11,589.6	11,564.1	0.0	0.0	45,069.6	45,590.5
Indiana	2,164.1	1,976.5	23,353.9	24,245.0	0.0	0.0	20.0	0.0	0.0	0.0	89.0	88.0	25,627.0	26,309.5
Michigan	2,253.1	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	29,141.3	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	19,893.2	60,582.6	61,818.7	657.0	657.0	2.0	2.0	5,855.5	5,806.0	24.5	24.5	88,881.7	88,201.4
Iowa	6,349.2	5,940.7	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	16,605.2
Kansas	3,863.7	3,197.6	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	14,318.2
Minnesota	4,116.0	3,623.9	10,132.6	10,233.6	0.0	0.0	1.0	1.0	1,647.0	1,594.0	18.4	18.4	15,915.0	15,470.9
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	2,634.0	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	7,224.9
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	14,639.2	13,211.1	159,760.6	160,031.5	7,905.2	7,905.2	76.5	34.0	24,578.6	24,559.1	509.7	586.7	207,469.8	206,327.6
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	1,443.9	1,354.3	54,112.4	53,863.8	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	488.7	59,477.0	59,278.8
Georgia	3,418.2	2,959.3	26,956.9	27,454.1	1,862.2	1,862.2	0.0	0.0	4,061.0	4,061.0	0.0	44.0	36,298.3	36,380.6
Maryland	1,009.0	970.1	9,556.7	9,693.2	0.0	0.0	11.0	0.0	1,707.8	1,707.8	0.0	0.0	12,284.5	12,371.1
North Carolina	4,233.0	3,456.9	22,021.3	21,973.4	86.0	86.0	0.0	0.0	5,113.6	5,094.1	161.0	54.0	31,614.9	30,664.4
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	930.0	886.0	14,163.3	14,755.9	0.0	0.0	65.5	34.0	0.0	0.0	0.0	0.0	15,158.8	15,675.9
East South Central	8,213.6	7,956.3	65,848.3	69,586.3	1,616.3	1,616.3	0.0	0.0	10,990.1	9,875.6	1.4	1.4	86,669.7	89,035.9
Alabama	3,939.9	3,886.9	20,214.5	22,793.0	0.0	0.0	0.0	0.0	5,066.4	5,066.4	0.0	0.0	29,220.8	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	14,315.4	14,253.7	0.0	0.0	0.0	0.0	1,401.0	1,408.5	1.4	1.4	15,992.5	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	28,720.7	25,060.2	145,605.3	147,907.2	286.0	288.0	40.0	36.0	8,896.2	8,912.4	527.2	513.2	184,075.4	182,717.0
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	290.9	275.8	26,401.5	26,567.6
Oklahoma	6,389.5	5,270.3	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	24,764.4
Texas	20,053.5	17,515.8	92,811.7	93,885.7	0.0	0.0	40.0	36.0	4,960.0	4,960.0	236.3	237.4	118,101.5	116,634.9
Mountain	23,081.6	21,015.6	64,087.8	64,343.5	778.8	778.8	2.6	2.6	3,937.0	3,937.0	119.8	111.4	92,007.6	90,188.9
Arizona	4,587.4	4,487.6	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	28,315.3
Colorado	3,873.1	3,403.2	11,363.0	11,422.4	562.5	562.5	0.0	0.0	0.0	0.0	9.3	9.3	15,807.9	15,397.4
Idaho	3,816.1	3,776.1	1,157.5	1,157.5	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	4,988.4	4,948.4
Montana	3,414.1	3,397.8	2,740.4	2,722.2	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,198.5	6,164.0
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	1,584.4	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	8,523.9	8,085.4
Utah	1,298.2	682.0	7,462.4	7,454.4	0.0	0.0	0.0	0.0	0.0	0.0	40.2	31.8	8,800.8	8,168.2
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	64,468.2	62,687.8	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	124,386.7	122,403.2
California	27,674.6	25,972.0	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	76,926.6	75,511.1
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	24,751.1	24,675.8	4,814.7	4,792.9	314.0	314.0	2.0	1.0	1,158.0	1,158.0	0.0	50.8	31,039.8	30,992.5
Pacific Noncontiguous	1,086.4	1,072.4	4,159.4	4,131.6	0.0	0.0	54.0	48.0	0.0	0.0	26.6	26.6	5,326.4	5,278.6
Alaska	508.7	507.5	2,102.2	2,059.4	0.0	0.0	27.0	27.0	0.0	0.0	0.0	0.0	2,637.9	2,593.9
Hawaii	577.7	564.9	2,057.2	2,072.2	0.0	0.0	27.0	21.0	0.0	0.0	26.6	26.6	2,688.5	2,684.7
U.S. Total	187,937.3	176,058.9	758,067.8	767,182.0	22,670.1	22,558.1	370.2	233.6	99,794.0	98,729.0	1,484.8	1,608.8	1,070,324.2	1,066,370.4

Values are preliminary.

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

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

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

Census Division and State	Summer Capacity at Utility Scale Facilities														Distributed Capacity Estimated Distributed Solar Photovoltaic Capacity		Summer Capacity From Utility Scale Facilities and Distributed Capacity			
	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Total Solar Photovoltaic Capacity		Estimated Total Solar Capacity			
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015		
New England	1,064.5	808.2	406.4	358.6	0.0	0.0	1,955.2	1,966.2	1,648.7	1,470.3	0.0	0.0	5,074.8	4,603.3	1,276.6	855.5	1,683.0	1,214.1	1,683.0	1,214.1
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	238.1	147.4	250.3	157.4	250.3	157.4
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	20.6	13.2	20.6	13.2	20.6	13.2
Massachusetts	90.5	82.6	349.6	310.5	0.0	0.0	265.9	263.4	283.3	283.3	0.0	0.0	989.3	939.8	902.0	626.0	1,251.6	936.5	1,251.6	936.5
New Hampshire	183.1	171.0	0.0	0.0	0.0	0.0	504.8	521.3	244.6	243.1	0.0	0.0	932.5	935.4	41.2	17.3	41.2	17.3	41.2	17.3
Rhode Island	18.0	3.8	10.2	7.9	0.0	0.0	2.7	2.7	36.9	36.9	0.0	0.0	67.8	51.3	14.5	8.6	24.7	16.5	24.7	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	60.2	42.9	94.6	73.1	94.6	73.1
Middle Atlantic	3,088.1	3,098.5	596.4	517.7	0.0	0.0	5,623.5	5,618.8	1,365.2	1,345.2	0.0	0.0	10,673.2	10,580.2	2,066.6	1,591.1	2,663.0	2,108.8	2,663.0	2,108.8
New Jersey	7.6	7.6	459.9	420.9	0.0	0.0	12.3	12.3	229.1	230.8	0.0	0.0	708.9	671.6	1,198.4	976.7	1,658.3	1,397.6	1,658.3	1,397.6
New York	1,747.0	1,747.0	94.3	54.7	0.0	0.0	4,711.6	4,713.1	557.2	534.2	0.0	0.0	7,110.1	7,049.0	663.1	439.2	757.4	493.9	757.4	493.9
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	205.1	175.2	247.3	217.3	247.3	217.3
East North Central	7,814.1	7,655.4	223.9	173.1	0.0	0.0	913.2	918.2	1,268.3	1,232.1	0.0	0.0	10,219.5	9,978.8	164.6	138.0	388.5	311.1	388.5	311.1
Illinois	3,799.8	3,799.8	32.8	31.9	0.0	0.0	34.1	34.1	110.3	114.3	0.0	0.0	3,977.0	3,980.1	24.5	18.0	57.3	49.9	57.3	49.9
Indiana	1,889.7	1,739.7	139.5	101.6	0.0	0.0	60.4	60.4	74.5	74.8	0.0	0.0	2,164.1	1,976.5	9.0	8.4	148.5	110.0	148.5	110.0
Michigan	1,360.1	1,360.1	7.9	1.0	0.0	0.0	324.6	333.1	560.5	453.5	0.0	0.0	2,253.1	2,147.7	31.0	26.6	38.9	27.6	38.9	27.6
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	76.1	66.0	118.8	103.6	118.8	103.6
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	24.1	19.0	25.1	20.0	25.1	20.0
West North Central	17,907.6	16,062.4	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	19,893.2	176.9	141.0	200.4	154.2	200.4	154.2
Iowa	6,181.1	5,775.4	0.0	0.0	0.0	0.0	144.9	144.9	23.2	20.4	0.0	0.0	6,349.2	5,940.7	36.2	27.6	36.2	27.6	36.2	27.6
Kansas	3,846.7	3,174.6	1.0	1.0	0.0	0.0	7.0	7.0	9.0	15.0	0.0	0.0	3,863.7	3,197.6	6.1	2.8	7.1	3.8	7.1	3.8
Minnesota	3,440.7	2,987.8	4.0	1.7	0.0	0.0	194.6	195.0	476.7	439.4	0.0	0.0	4,116.0	3,623.9	25.6	17.8	29.6	19.5	29.6	19.5
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	106.6	91.5	121.1	102.0	121.1	102.0
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	1.6	0.9	5.6	0.9	5.6	0.9
North Dakota	2,221.7	2,114.2	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	2,741.5	2,634.0	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	837.8	740.0	0.0	0.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	2,435.8	2,338.0	0.6	0.3	0.6	0.3	0.6	0.3
South Atlantic	775.3	745.3	2,438.3	1,081.7	0.0	0.0	7,251.7	7,198.0	4,173.9	4,186.1	0.0	0.0	14,639.2	13,211.1	1,005.2	566.8	3,443.5	1,648.5	3,443.5	1,648.5
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	77.6	51.8	108.3	82.5	108.3	82.5
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	35.6	20.3	35.6	20.3	35.6	20.3
Florida	0.0	0.0	100.8	78.9	0.0	0.0	54.5	54.5	1,288.6	1,220.9	0.0	0.0	1,443.9	1,354.3	144.5	93.9	245.3	172.8	245.3	172.8
Georgia	0.0	0.0	472.9	68.6	0.0	0.0	2,047.5	2,047.6	897.8	843.1	0.0	0.0	3,418.2	2,959.3	NM	NM	NM	NM	NM	NM
Maryland	190.0	160.0	87.0	75.0	0.0	0.0	590.0	590.0	142.0	145.1	0.0	0.0	1,009.0	970.1	495.2	251.6	582.2	326.6	582.2	326.6
North Carolina	0.0	0.0	1,741.4	826.0	0.0	0.0	2,004.1	1,999.1	487.5	631.8	0.0	0.0	4,233.0	3,456.9	96.7	62.7	1,838.1	888.7	1,838.1	888.7
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	24.9	4.4	27.4	6.9	27.4	6.9
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	27.3	19.1	30.3	19.1	30.3	19.1
West Virginia	583.3	583.3	0.0	0.0	0.0	0.0	344.5	300.5	2.2	2.2	0.0	0.0	930.0	886.0	4.1	3.0	4.1	3.0	4.1	3.0
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	55.8	48.7	111.0	93.9	111.0	93.9
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	2.3	1.9	2.3	1.9	2.3	1.9
Kentucky	0.0	0.0	10.0	0.0	0.0	0.0	1,030.2	835.3	69.7	70.3	0.0	0.0	1,109.9	905.6	10.8	8.8	20.8	8.8	20.8	8.8
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	3.1	1.0	3.1	1.0	3.1	1.0
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	39.5	36.9	84.7	82.1	84.7	82.1
West South Central	23,927.8	20,465.6	433.4	218.4	0.0	0.0	2,986.5	3,049.6	1,373.0	1,326.6	0.0	0.0	28,720.7	25,060.2	341.1	233.3	774.5	451.7	774.5	451.7
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	4.4	3.3	16.4	3.3	16.4	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	116.8	94.1	116.8	94.1	116.8	94.1
Oklahoma	5,451.2	4,328.4	2.5	2.5	0.0	0.0	859.6	863.2	76.2	76.2	0.0	0.0	6,389.5	5,270.3	3.0	1.8	5.5	4.3	5.5	4.3
Texas	18,476.6	16,137.2	418.9	215.9	0.0	0.0	668.7	670.8	489.3	491.9	0.0	0.0	20,053.5	17,515.8	216.9	134.1	635.8	350.0	635.8	350.0
Mountain	7,903.1	7,126.8	3,421.7	2,257.4	473.9	363.9	10,561.7	10,560.8	176.4	178.2	544.8	528.5	23,081.6	21,015.6	1,541.6	1,193.1	4,963.3	3,450.5	5,437.2	3,814.4
Arizona	267.3	267.3	1,273.1	1,169.3	295.4	295.4	2,720.9	2,720.9	30.7	34.7	0.0	0.0	4,587.4	4,487.6	864.6	719.0	2,137.7	1,888.3	2,433.1	2,183.7
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	276.8	237.5	483.0	370.9	483.0	370.9
Idaho	962.7	962.7	40.0	0.0	0.0	0.0	2,707.7	2,707.7	95.7	95.7	10.0	10.0	3,816.1	3,776.1	6.3	4.0	46.3	4.0	46.3	4.0
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	7.3	5.4	7.3	5.4	7.3	5.4
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	205.8	115.8	1,156.4	785.3	1,334.9	853.8
New Mexico	1,112.3	812.3	385.4	269.0	0.0	0.0	82.9	82.9	2.2	2.2	1.6	1.6	1,584.4	1,168.0	87.2	71.4	472.6	340.4	472.6	340.4
Utah	388.2	324.4	566.4	16.2	0.0	0.0	256.4	256.4	14.2	12.0	73.0	73.0	1,298.2	682.0	91.5	38.3	657.9	54.5	657.9	54.5
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	2.1	1.6	2.1	1.6	2.1	1.6
Pacific Contiguous	11,957.3	12,243.7	7,212.7	5,188.4	1,284.0	1,302.8	39,986.1	39,908.9	2,074.4	2,087.1	1,953.7	1,956.9	64,468.2	62,687.8	5,001.3	3,565.4	12,214.0	8,753.8	13,498.0	10,056.6
California	5,726.8	6,013.2	7,189.6	5,174.0	1,284.0	1,302.8	10,186.2	10,182.9	1,353.8	1,359.9	1,934.2	1,939.2	27,674.6	25,972.0	4,846.7	3,454.2	12,036.3	8,628.2	13,320.3	9,931.0
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	84.0	66.0	106.6	79.9	106.6	79.9
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,274.5	21,206.2	403.0	396.0	0.0	0.0	24,751.1	24,675.8	70.6	45.3	71.1	45.8	71.1	45.8

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, August 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	
	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015	August 2016	August 2015
New England	11,893.0	11,785.4	1,115.5	1,110.1	641.5	963.5	1,955.3	2,076.8	0.0	0.0	7,117.2	6,907.4	0.0	0.0	22,722.5	22,843.2
Connecticut	2,547.5	2,504.6	479.3	482.2	416.6	67.0	383.4	383.4	0.0	0.0	2,480.3	2,832.6	0.0	0.0	6,307.1	6,269.8
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	26,259.7	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	69,286.8	67,525.6
New Jersey	8,104.3	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	13,584.3	12,511.4
New York	8,095.4	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	25,956.4	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	1,139.9	934.7	113,809.1	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	114.5	117.7	29,430.4	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	7,371.4	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	3,898.0	3,500.5	35,132.4	36,930.2	32.0	32.0	4,096.1	4,078.0	8.4	8.4	60,582.6	61,818.7
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	792.3	0.0	0.0	10,132.6	10,233.6
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	586.3	407.3	3,842.0	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	31,111.9	31,977.0	7,071.6	6,779.6	58,322.6	59,952.6	83.8	669.8	11,782.4	12,693.2	135.0	135.0	159,760.6	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	7,840.0	7,823.4	789.4	822.0	9,353.5	9,764.4	83.8	83.8	937.0	998.7	0.0	0.0	26,956.9	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	4,055.0	2,592.1	29,497.4	34,584.7	0.0	0.0	152.0	150.8	99.8	99.8	65,848.3	69,586.3
Alabama	9,397.8	9,391.3	2,530.6	2,530.6	636.3	189.3	7,507.4	10,539.4	0.0	0.0	42.6	42.6	99.8	99.8	20,214.5	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	3,155.5	2,381.6	1,820.0	2,526.0	0.0	0.0	44.3	43.1	0.0	0.0	14,315.4	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	13,101.4	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	147,907.2
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	8,409.1	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	93,885.7
Mountain	22,487.3	22,507.6	8,926.6	8,885.6	3,196.9	3,220.4	28,942.6	29,220.0	52.0	52.0	370.8	370.8	111.6	87.1	64,087.8	64,343.5
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	3,239.9	2,535.3	2,535.3	329.0	349.0	5,089.8	5,129.8	0.0	0.0	168.4	168.4	0.0	0.0	11,363.0	11,422.4
Idaho	568.5	568.5	562.1	562.1	4.3	4.3	17.2	17.2	0.0	0.0	5.4	5.4	0.0	0.0	1,157.5	1,157.5
Montana	0.0	0.0	321.6	321.6	72.2	54.0	2,293.1	2,293.1	52.0	52.0	0.0	0.0	1.5	1.5	2,740.4	2,722.2
Nevada	5,418.6	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	25,993.0	25,309.9	11,658.7	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	19,892.9	19,624.4	10,763.5	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	224.4	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	2,575.1	9.6	6.4	4,159.4	4,131.6
Alaska	418.0	561.2	654.3	527.8	175.0	175.0	153.8	106.1	0.0	0.0	701.1	689.3	0.			

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	XXXX	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	5T		Natural Gas Fired Combined Cycle	NG	CA
2016	4	59403	Gaston Solar LLC	IPP	Gaston Solar	NC	59642	5MWV	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	Invenery 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	Stalene 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	5MWV	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	EI 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	Holdrede 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	FRTRS	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	Invenery 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	Stalene 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	ENT51	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 Tranquility	CA	59939	TQ	205.3	Solar Photovoltaic	SUN	PV
2016	7	17650	Southern Power Co	IPP	Stalene 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
2016	8	60281	Altus Power America Management, LLC	IPP	Shirley Water	MA	60498	1	2.0	Solar Photovoltaic	SUN	PV
2016	8	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK5	33.9	Solar Photovoltaic	SUN	PV
2016	8	59903	Candace Solar LLC	IPP	Candace Solar	NC	59499	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	8	58519	Clean Energy Collective LLC	IPP	CPS 1	TX	60472	CPS1	1.0	Solar Photovoltaic	SUN	PV
2016	8	59938	Cohen Farm Solar, LLC	IPP	Cohen Farm Solar, LLC	NC	60146	FLS1	6.5	Solar Photovoltaic	SUN	PV
2016	8	56769	Consolidated Edison Development Inc.	IPP	CED Westfield Solar, LLC	MA	60274	WFMA	2.0	Solar Photovoltaic	SUN	PV
2016	8	56769	Consolidated Edison Development Inc.	IPP	OCl Alamo 7 LLC	TX	59207	OClA7	100.0	Solar Photovoltaic	SUN	PV
2016	8	57365	Consolidated Edison Solutions Inc	IPP	Future Generation Wind	MA	59622	FGMA	7.9	Onshore Wind Turbine	WND	WT
2016	8	4254	Consumers Energy Co	Electric Utility	Western Michigan Solar Gardens	MI	60117	1	1.0	Solar Photovoltaic	SUN	PV
2016	8	58468	Dominion Renewable Energy	IPP	Escalante Solar I, LLC	UT	59387	ESCS1	80.0	Solar Photovoltaic	SUN	PV
2016	8	58468	Dominion Renewable Energy	IPP	Escalante Solar II, LLC	UT	59388	ESCS2	80.0	Solar Photovoltaic	SUN	PV
2016	8	58468	Dominion Renewable Energy	IPP	Escalante Solar III, LLC	UT	59389	ESCS3	80.0	Solar Photovoltaic	SUN	PV
2016	8	58468	Dominion Renewable Energy	IPP	Iron Springs Solar	UT	59941	ISS	80.0	Solar Photovoltaic	SUN	PV
2016	8	6455	Duke Energy Florida, Inc	Electric Utility	Perry Solar Facility	FL	60071	XXXXX	5.1	Solar Photovoltaic	SUN	PV
2016	8	59745	First Solar Asset Management	IPP	Rancho Seco Solar, LLC	CA	60226	GEN01	10.8	Solar Photovoltaic	SUN	PV
2016	8	60235	ID Solar 1, LLC	IPP	ID Solar	ID	60445	INV1	40.0	Solar Photovoltaic	SUN	PV
2016	8	9324	Indiana Michigan Power Co	Electric Utility	OlivePV	IN	59854	OLPV1	5.0	Solar Photovoltaic	SUN	PV
2016	8	9324	Indiana Michigan Power Co	Electric Utility	Twin Branch PV	IN	59861	TBPV1	2.6	Solar Photovoltaic	SUN	PV
2016	8	59897	LKL Goldfinch, LLC	IPP	Goldfinch	FL	60124	GFNCH	3.0	Solar Photovoltaic	SUN	PV
2016	8	60190	MC1 Solar Farm, LLC	IPP	MC1 Solar	NC	60395	MC1PV	5.0	Solar Photovoltaic	SUN	PV
2016	8	60213	Modlin Solar, LLC	IPP	Modlin Solar Farm	NC	60417	MSFPV	4.9	Solar Photovoltaic	SUN	PV
2016	8	9436	Mosaic Phosphates Co.	Industrial	Mosaic Phosphates Uncle Sam	LA	10198	GEN3	15.0	All Other	OTH	ST
2016	8	58838	Parrey, LLC	IPP	Henrietta Solar Project	CA	58975	PV1	100.0	Solar Photovoltaic	SUN	PV
2016	8	60191	RE Barren Ridge 1, LLC	IPP	RE Barren Ridge 1	CA	60389	REBR1	60.0	Solar Photovoltaic	SUN	PV
2016	8	58968	RE Mustang LLC	IPP	RE Mustang LLC	CA	59150	PV1	100.0	Solar Photovoltaic	SUN	PV
2016	8	60280	River Road Solar, LLC	IPP	River Road Solar, LLC	NC	60487	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	8	59662	Riverside Fuel Cell, LLC	Commercial	Riverside RWQCP Fuel Cell	CA	59877	MB20	1.4	Other Waste Biomass	OBG	FC
2016	8	60209	Roswell Solar, LLC	IPP	Roswell Solar, LLC	NM	60406	RSPV	70.0	Solar Photovoltaic	SUN	PV
2016	8	57313	SolarCity Corporation	IPP	The Clorox Company	MD	60461	PV1	1.6	Solar Photovoltaic	SUN	PV
2016	8	59773	SunE Solar XVI Lessor, LLC	IPP	SunE Rochester	CA	60032	RCHTR	1.0	Solar Photovoltaic	SUN	PV
2016	8	58661	Sustainable Power Group, LLC	IPP	Antelope Big Sky Ranch	CA	60279	ABSR	20.0	Solar Photovoltaic	SUN	PV
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
2016	8	59108	WED Coventry Four, LLC	IPP	WED Coventry 4	RI	59306	WEDC4	1.5	Onshore Wind Turbine	WND	WT
2016	8	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6	1.5	Onshore Wind Turbine	WND	WT
2016	8	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6A	1.5	Onshore Wind Turbine	WND	WT
2016	8	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6B	1.5	Onshore Wind Turbine	WND	WT
2016	8	59107	WED Coventry Three, LLC	IPP	WED Coventry 3	RI	59305	WEDC3	1.5	Onshore Wind Turbine	WND	WT
2016	8	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2	1.5	Onshore Wind Turbine	WND	WT
2016	8	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2A	1.5	Onshore Wind Turbine	WND	WT
2016	8	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2B	1.5	Onshore Wind Turbine	WND	WT
2016	8	60156	White Farm Solar, LLC	IPP	White Farm Solar, LLC	NC	60363	WFSPV	5.2	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
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NOTES:

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

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

NOTES:

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

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

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	9	59616	63SU 8me, LLC	IPP	Springbok Solar Farm 2	CA	59640	S82	155.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	155.0
2016	9	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	9	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	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	58540	California PV Energy LLC	IPP	CA Department of Public Health at Richmo	CA	60428	PV1	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
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	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	9	59429	Comanche LLC	IPP	Comanche Solar	CO	59656	COMCH	120.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	120.0
2016	9	56769	Consolidated Edison Development Inc.	IPP	CEC Durcor 4	CA	60081	DLJCA	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	9	59595	Copper Mountain Solar 4, LLC	IPP	Copper Mountain Solar 4, LLC	NV	59814	PV02	41.8	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	41.8
2016	9	4329	Copper Valley Elec Assn, Inc	Electric Utility	Allison Creek Hydro	AK	59882	GEN1	6.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.5
2016	9	58695	Coronal Development Services	IPP	County Home Solar Center, LLC	NC	60199	CHSC1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2016	9	58695	Coronal Development Services	IPP	Grove Solar Center, LLC	OR	60330	GSC1	6.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	6.0
2016	9	58695	Coronal Development Services	IPP	Mariposa Solar Center LLC	NC	59162	MSC1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2016	9	58695	Coronal Development Services	IPP	Open Range Solar Center, LLC	OR	60332	ORSC1	10.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	10.0
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	GM5W	50.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.4
2016	9	5701	El Paso Electric Co	Electric Utility	Montana Power Station	TX	58562	GT-4	100.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	131.8
2016	9	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	9	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	9	57104	Golden Springs Development Company LLC	IPP	Building L	CA	60154	BLDG1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2016	9	57104	Golden Springs Development Company LLC	IPP	Building F	CA	60151	BLDFG	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2016	9	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	9	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	9	57104	Golden Springs Development Company LLC	IPP	Freeway Springs	CA	60183	FSPR1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	9	58066	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	60215	Hardison Farm Solar, LLC	IPP	Hardison Farm Solar, LLC	NC	60415	HFSVP	5.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.2
2016	9	59462	Heelstone Energy Holdings, LLC	IPP	Corwall Solar Center, LLC	NC	59663	CSG1	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	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Huntington Solar Park	IN	60251	SHUNT	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	9	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	9	5245	Lincoln Solar	IPP	Lincoln Solar	NC	59486	LANE	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2016	9	11268	Los Angeles Department of Water & Power	Electric Utility	Mastay Solar Project	CA	57308	1	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2016	9	60214	Naxton Solar, LLC	IPP	Naxton Solar, LLC	NC	60416	MSPV	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
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	(TS) Construction complete, but not yet in commercial operation	15.2
2016	9	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	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	(TS) Construction complete, but not yet in commercial operation	20.0
2016	9	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	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	58895	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	58895	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	58895	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	Praine Power, Inc	Electric Utility	Aisey	IL	7818	6	42.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 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	60263	SR Skylark B, LLC	IPP	SR Skylark B	CO	60497	SKY B	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
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	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	59605	South Lousburg Solar LLC	IPP	South Lousburg Solar	NC	59825	SMWV1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2016	9	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG01	18.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.7
2016	9	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG02	18.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.7
2016	9	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG03	18.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.7
2016	9	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG04	18.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.7
2016	9	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG05	18.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.7
2016	9	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG06	18.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.7
2016	9	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG07	18.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.7
2016	9	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG08	18.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.7
2016	9	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG09	18.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.7
2016	9	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG10	18.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.7
2016	9	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG11	18.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.7
2016	9	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG12	18.3	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	18.7
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					

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Henryville Solar RES	IN	59986	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	(V) Under construction, more than 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	(V) Under construction, more than 50 percent complete	1.1
2016	10	9324	Indiana Michigan Power Co	Electric Utility	WaterVliet PV	MI	59853	WV1	4.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.6
2016	10	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	10	59452	Ingenco Renewable Development, LLC	IPP	Bristol Plant	VA	60222	A2	0.3	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.3
2016	10	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	10	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	10	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	10	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	10	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	10	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	10	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	10	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	10	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	10	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	10	49893	Invernergy 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	Invernergy 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	Invernergy 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	58802	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	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	59336	NB008	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
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 Electric & Gas Corp	Electric Utility	Harris Lake	NY	62528	2	2.3	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.5
2016	10	58588	Orbit Energy Charlotte	IPP	Orbit Energy Charlotte	NC	58638	1	5.2	Other Waste Biomass	OBS	IC	(TS) Construction complete, but not yet in commercial operation	5.2
2016	10	60238	Pavant Solar II LLC	IPP	Pavant Solar II LLC	UT	60449	PSII	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2016	10	59728	RE Astoria 2 LLC	IPP	RE Astoria 2	CA	59774	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	59776	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	(TS) Construction complete, but not yet in commercial operation	18.0
2016	10	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	10	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	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	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	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	RE Roseroak	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	(V) Under construction, more than 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	11	62019	96W1 BME, 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	Accessa Wind Energy USA LLC	IPP	San Roman Wind I, LLC	TX	59712	SRW1	95.3	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 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	59050	Argonquin Power Co	IPP	Argonquin SKIC 10 Solar, LLC	CA	60242	SK10	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	11	57369	Apple, Inc	IPP	Bonnybrook PV	AZ	60413	AZPV1	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2016	11	60148	Brady Wind, LLC	IPP	Brady Wind Energy Center	ND	60355	BWEC1	150.0	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
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	14534	City of Pasadena - (CA)	Electric Utility	Glenam	CA	422	G75	68.0	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	71.0
2016	11	14534	City of Pasadena - (CA)	Electric Utility	Glenam	CA	422	ST1		Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	16.0
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	58656	Coronal Development Services	IPP	Fresmont Solar Center LLC	NC	59912	FREE	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	11	58656	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	58656	Coronal Development Services	IPP	Thunderberg 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	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	11	57406	Deepwater Wind Block Island LLC	IPP	Block Island Wind Farm	RI	59035	BWIF	29.3	Offshore Wind Turbine	WIND	WS	(V) Under construction, more than 50 percent complete	30.0
2016	11	60201	Exum Farm Solar, LLC	IPP	Exum Farm Solar, LLC	NC	60400	FLS1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
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	25438	Friant Power Authority	IPP	Friant Hydro Facility	CA	60393	RO2	9.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.9
2016	11	59806	Grand View PV Solar Two, LLC	IPP	Grand View Solar Two	ID	60068	GVS2	60.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 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	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	11	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	11	60189	Innovative Solar 65, LLC	IPP	Innovative Solar 65	NC	60398	FLS1	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2016	11	59022	Leonardo Wind 1 LLC	IPP	Leonardo Wind 1 LLC	IA	59228	WT1	3.0	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	11	59027	Michelangelo Wind 4 LLC	IPP	Michelangelo Wind 4 LLC	IA	59232	WT1	3.0	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	11	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF3	96.6	Onshore Wind Turbine	WIND	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	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	72.5
2016	11	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	UJ316	0.9	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.9
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	59690	NJR Clean Energy Ventures Corporation	IPP	Ringer Hill Wind Farm, LLC	PA	60329	RNGR	39.9	Onshore Wind Turbine	WIND	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	59025	Optimum Wind 3 LLC	IPP	Optimum Wind 3 LLC	IA	59227	WT1	3.0	Onshore Wind Turbine				

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	60292	Advanced Solar Power Holdings, Inc	IPP	Two Mile Desert Project	NC	60510	PV1	16.2	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.2
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	803	Arizona Public Service Co	Electric Utility	Red Rock	AZ	60467	PV1	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2016	12	15399	Avangrid 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	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	(V) Under construction, more than 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	(U) Under construction, less than or equal to 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	59041	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 Enrgy 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 Enrgy 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 Enrgy 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 Enrgy 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	(U) Under construction, less than or equal to 50 percent complete	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	59121	GEN3	50.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	50.0
2016	12	5418	Duke Energy Carolinas, LLC	IPP	Mocksville Solar	NC	59570	PV1	7.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	15.4
2016	12	5418	Duke Energy Carolinas, LLC	Electric Utility	Monroe Solar Facility	NC	60363	MONPV	27.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	59.4
2016	12	59701	Ecoplexus, Inc	IPP	Baker PV 1	NC	59517	BAKE1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	12	59701	Ecoplexus, Inc	IPP	Benthall Brdge PV 1	NC	59515	BENT1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	12	59701	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	58720	Enbridge	IPP	New Creek Wind	WV	60132	NGC01	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	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	Lindahi Wind Project, LLC	ND	59684	LWPO1	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	(U) Under construction, less than or equal to 50 percent complete	13.0
2016	12	31719	FPL Energy Wyman LLC	IPP	William F Wyman	ME	1507	BESS	16.2	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	16.7
2016	12	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	12	56615	First Solar Project Development	IPP	Portar 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	59156	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	59156	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	59491	Franklin Solar LLC	IPP	Franklin Solar	NC	59708	SMWPV	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	12	59928	Frontier Windpower, LLC	IPP	Frontier Windpower	OK	60218	FC1	200.0	Onshore Wind Turbine	WIND	WT	(V) Under construction, more than 50 percent complete	200.0
2016	12	58880	Galgos Wind Farm LLC	IPP	Galgos Wind Farm, Phase 1	NM	59047	GEN 1	180.0	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	180.0
2016	12	59977	Hemlock Solar LLC	IPP	Hemlock Solar	NC	60207	HEMLK	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	12	56946	Hidalg Wind Farm LLC	IPP	Hidalg Wind Farm LLC	TX	57617	GEN1	250.0	Onshore Wind Turbine	WIND	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	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	12	59441	Innovative Solar 46, LLC	IPP	Innovative Solar 46	NC	59671	ISO46	78.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	78.5
2016	12	49893	Invenegy Services LLC	IPP	Bethel Wind Farm LLC	TX	60414	GEN1	276.0	Onshore Wind Turbine	WIND	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	(U) Under construction, less than or equal to 50 percent complete	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	(U) Under construction, less than or equal to 50 percent complete	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	(V) Under construction, more than 50 percent complete	100.0
2016	12	60107	Mesquite Solar 3, LLC	IPP	Mesquite Solar 3, LLC	AZ	60308	1	150.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	150.0
2016	12	59493	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	Iota Grove Wind	IA	60342	IGWF4	98.9	Onshore Wind Turbine	WIND	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	WIND	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	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	12	59755	Murphy Flat Power, LLC	IPP	Murphy Flat Solar	ID	60009	IPMF	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	12	13781	Northern States Power Co - Minnesota	IPP	Courtenay Wind Farm	ND	58658	1	200.0	Onshore Wind Turbine	WIND	WT	(V) Under construction, more than 50 percent complete	200.0
2016	12	59019	Optimum Wind 7 LLC	IPP	Optimum Wind 7 LLC	IA	59225	WT1	3.0	Onshore Wind Turbine	WIND	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	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	12	60207	Pisgah Mountain, LLC	IPP	Pisgah Mountain Wind	ME	60404	PISGA	9.1	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	9.1
2016	12	59682	Pollockville Solar LLC	IPP	Pollockville Solar	NC	59917	SMWPV	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	12	60125	Providence Solar Center, LLC	IPP	Providence Solar	TN	60337	PROV	16.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	16.0
2016	12	59334	Rutherford Farm, LLC	IPP	Rutherford Farm	NC	59589	PV1	61.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	61.0
2016	12	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	12	60182	SRJFC, LLC	Electric CHP	Santa Rita Jail Fuel Cell	CA	60385	MB-18	1.4	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	1.4
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	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	12	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	12	58704	Sonne Two LLC	IPP	Sonne Two	NC	58829	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	12	17650	Southern Power Co	IPP	East Pecos Solar	TX	60436	1	118.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	118.5
2016	12	17650	Southern Power Co	IPP	RE Garland	CA	60233	PV2	185.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	185.0
2016	12	17650	Southern Power Co	IPP	RE Garland A	CA	60386	PV1	20.0	Solar Photovoltaic				

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	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	69.8	Onshore Wind Turbine	WIND	WT	(V) Under construction, more than 50 percent complete	69.8
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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	18.7
2017	1	58519	Clean Energy Collective LLC	IPP	Carver MA 1	MA	60442	OMA1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
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	Turnil 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	59026	Michelangelo Wind 1 LLC	IPP	Michelangelo Wind 1 LLC	IA	59231	WT1	3.0	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	1	58887	Michelangelo Wind 3 LLC	IPP	Michelangelo Wind 3 LLC	IA	59053	WT1	3.0	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
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	50323	Monroe Moore Farm, LLC	IPP	Monroe Moore Farm	NC	59578	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	1	17470	PUD 1 of Snohomish County	Electric Utility	MESA 2	WA	60021	MESA2	2.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.4
2017	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	(U) Under construction, less than or equal to 50 percent complete	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	Lancaster WAD B	CA	59739	LWADB	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	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	2	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG2	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2017	2	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG3	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2017	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	WIND	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	STGRN	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 1, LLC	IPP	Cotton Plains Wind 1	TX	60210	CPWF	50.4	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	50.4
2017	2	15470	Duke Energy Indiana, LLC	Electric Utility	Crane Solar Facility	IN	60435	XXXXX	7.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	17.0
2017	2	59862	Durbin Creek	IPP	Durbin Creek Windfarm	OR	59492	DCW	10.0	Onshore Wind Turbine	WIND	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	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2017	2	60155	Old Settler Wind, LLC	IPP	Old Settler Wind	TX	60366	OSWF	151.2	Onshore Wind Turbine	WIND	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	WIND	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	59021	Venus Wind 3 LLC	IPP	Venus Wind 3 LLC	IA	59230	WT1	3.0	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
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
2017	2	59864	Willow Spring	IPP	Willow Spring Windfarm	OR	59494	WSW	10.0	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2017	3	59725	Ariel Solar, LLC	IPP	Bloomsbury Solar, LLC	NC	59970	BLOOM	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	3	59308	Beardford Farm, LLC	IPP	Beardford 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	Calyppo Farm LLC	IPP	Calyppo 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	(T) Regulatory approvals received. Not under construction	1.6
2017	3	58519	Clean Energy Collective LLC	IPP	West Bridgewater AB	MA	60424	WBAB	2.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.2
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	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	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
2017	3	59978	HXNAir Solar One LLC	IPP	HXNAir Solar One	NC	60209	HXNA1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	60096	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	Summit Solar Farm	MS	60306	SUM1	52.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	52.0
2017	3	59769	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	COGMW	6.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.0
2017	3	56545	Patterson Operators LP	IPP	Broadview Energy, JN, LLC	NM	60145	1	18.7	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	18.7
2017	3	56545	Patterson Operators LP	IPP	Broadview Energy, KW, LLC	NM	60152	1	142.6	Onshore Wind Turbine	WIND	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	59586	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	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	56694	Thermo No 1 BE 01 LLC	IPP	Thermo Solar PV-01	UT	59883	SOLAR	2.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.9
2017	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	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
2017	3	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	3	60154	White Street Renewables LLC											

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	4	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	4	58658	Sunlight Partners	IPP	Cardinal Solar	NC	60174	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Carter Solar	NC	60167	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Christina Solar	NC	60172	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	3.0
2017	4	58658	Sunlight Partners	IPP	Clayton Solar	NC	60171	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	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	4	58658	Sunlight Partners	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	4.0
2017	4	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Hawk Solar	NC	60163	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Heedeth Solar	NC	60157	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	4.0
2017	4	58658	Sunlight Partners	IPP	Higgins Solar	NC	60166	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Icanus Solar	NC	60169	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	3.0
2017	4	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Jordan Solar	NC	60164	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	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	4	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Sadie Solar	NC	60168	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Signature Solar	NC	60155	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	58658	Sunlight Partners	IPP	Wilfork Solar	NC	60162	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending, Not under construction	5.0
2017	4	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 1	CA	59315	BEAC1	56.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	56.0
2017	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	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	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	Plays 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	Miliani 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 Pti Inc	Commercial	Medical Area Total Energy Plant	MA	10883	CT3	12.8	Natural Gas Fired Combined Cycle	NG	GT	(T) Regulatory approvals received, Not under construction	13.8
2017	5	40228	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	40228	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	40228	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	ST1	493.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	493.0
2017	5	59336	Schell Solar Farm, LLC	IPP	Schell Solar Farm	NC	59591	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received, Not under construction	5.0
2017	5	60246	Sunray Energy 2, LLC	IPP	Sunray 2	CA	10437	SUN2	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received, Not under construction	20.0
2017	5	60247	Sunray Energy 3 LLC	IPP	Sunray 3	CA	10438	SUN3	13.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received, Not under construction	13.8
2017	5	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	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 Combined Cycle	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 Combined Cycle	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 Combined Cycle	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 Combined Cycle	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	58850	Ayrshire Holdings, LLC	IPP	Ayrshire	NC	59792	PV1	19.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	19.4
2017	6	58771	Black Hills Service Company LLC	IPP	Pueblo Airport Generating Station	CO	58998	CT08	37.0	Natural Gas Fired Combined Cycle	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	WIND	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	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	178.2
2017	6	60075	Climax Solar, LLC	IPP	Climax Solar	NC	60286	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	60076	Crawford Solar, LLC	IPP	Crawford Solar	NC	60294	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	60077	Crimson Solar, LLC	IPP	Crimson Solar	NC	60295	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT7	313.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	360.9
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT8	313.2	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	360.9
2017	6	6035	Exelon Power	IPP	Colorado Bend III	TX	60122	STG9	461.4	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	508.5
2017	6	59745	First Solar Asset Management	IPP	CA Flats Solar 130, LLC	CA	60033	GEN01	130.0	Solar Photovoltaic	SUN	PV	(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	WIND	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	CA	(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	CA	(V) Under construction, more than 50 percent complete	240.7
2017	6	59533	Great Bay Solar 1 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	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE1	478.0	Onshore Wind Turbine	WIND	WT	(T) Regulatory approvals received, Not under construction	478.0
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	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2017	6	59099	New Dimension Energy Company, LLC	IPP	Westwind Trust	CA	54258	WTGS	15.6	Onshore Wind Turbine	WIND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.6
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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	9	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	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	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	Playsa Solar	NV	59827	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2017	9	58692	Flory Knobb LLC	IPP	Flory 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	Flory Knobb LLC	IPP	Flory 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	Flory Knobb LLC	IPP	Flory 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	WIND	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	WIND	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	WIND	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	WIND	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	WIND	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	WIND	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/Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	42.0
2017	9	59109	SUNE BEACON SITE 2, LLC	IPP	Beacon Solar Plant Site 2	CA	59308	BEAC2	48.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	48.0
2017	9	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
2017	9	59056	Tri Global Energy, LLC	IPP	Fiber Winds	TX	59244	FIBE1	80.0	Onshore Wind Turbine	WIND	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	WIND	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	WIND	WS	(L) Regulatory approvals pending. Not under construction	12.0
2017	10	58696	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	LEF1	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	RGH1	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	Delliah Road Landfill	NJ	58951	DRLS	9.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	9.0
2017	10	59669	Louisburg Solar	IPP	Louisburg Solar	NC	59895	SMW/PV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	10	58850	Mariah del Sur LLC	IPP	Mariah del Sur LLC	TX	59007	MAR S	230.4	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2017	10	60036	Michigan Wind 3, LLC	IPP	Michigan Wind 3	MI	60246	1	152.8	Onshore Wind Turbine	WIND	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	40590	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	40590	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	40590	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	40590	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	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	288.0
2017	10	59056	Tri Global Energy, LLC	IPP	Easter	TX	59271	ESTR1	300.0	Onshore Wind Turbine	WIND	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	WIND	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	WIND	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	WIND	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	WIND	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	WIND	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	WIND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2017	12	60374	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	WIND	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	WIND	WT	(T) Regulatory approvals received. Not under construction	175.0
2017	12	59714	Antrim Wind Energy LLC	IPP	Antrim Wind	NH	59953	AWND01	28.4	Onshore Wind Turbine	WIND	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	15399	Avangrid Renewables Inc	IPP	El Cabo Wind	NM	58098	1	298.0	Onshore Wind Turbine	WIND	WT	(U) Under construction, less than or equal to 50 percent complete	298.0
2017	12	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	210.0	Onshore Wind Turbine	WIND	WT	(L) Regulatory approvals pending. Not under construction	210.0
2017	12	59594	Black Oak Wind Farm LLC	IPP	Black Oak Wind Farm	NY	59813	NA	16.1	Onshore Wind Turbine	WIND	WT	(L) Regulatory approvals pending. Not under construction	16.1
2017	12	59365	Capital Power Corporation	IPP	Black Fork Wind Energy Project	OH	59907	GEN	200.0	Onshore Wind Turbine	WIND	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	WIND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2017	12	59365	Capital Power Corporation	IPP	Hopewell 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	WIND	WT	(P) Planned for installation, but regulatory approvals not initiated	99.0
2017	12	59365	Capital Power Corporation	IPP	Poplars Ranch Solar LLC	OR	59890	GEN	16.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	16.0
2017	12	58508	Carolina Solar Energy II LLC	IPP	Cabaniss Solar	NC	60430	PV1	4.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.2
2017	12	58508	Carolina Solar Energy II LLC	IPP	McClure 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	WIND	WT	(T) Regulatory approvals received. Not under construction	236.0
2017	12	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS1	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
2017	12	60270	Clark Canyon Hydro, LLC	IPP	Clark Canyon Hydro-Electric Facility	MT	60483	FRNS2	2.4	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.4
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	

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	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	59156	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	CC	(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	CC	(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	CC	(P) Planned for installation, but regulatory approvals not initiated	390.0
2017	12	60223	Haskell Energy, Inc.	Electric Utility	Hillsgate 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	Bradlock Lock and Dam	PA	59081	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	Kalaheo Solar One LLC	IPP	Kalaheo 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	56716	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	NE	57612	GEN1	250.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	250.0
2017	12	56546	Patterson Operators LP	IPP	Greely 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	Paudling Wind Farm LLC	IPP	Paudling 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	Qual Holdings, LLC	IPP	Qual 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 Tranquility 8 LLC	IPP	RE Tranquility 8	CA	59940	T08	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	205.3
2017	12	60217	San Bernardino Valley Municipal Water District	Electric Utility	Waterman Turnout Hydroelectric	CA	60466	WTHF	1.0	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	1.0
2017	12	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	58258	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	58861	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	58861	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	58861	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	60371	Trinity Solar, LLC	IPP	Trinity Solar	NC	60291	PV1	4.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	58633	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	WOCAMP	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	60277	54 KR 8me LLC	IPP	Redwood 4 Solar Farm	CA	60490	RW4SF	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
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	CC	(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	CC	(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	CC	(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	CC	(L) Regulatory approvals pending. Not under construction	382.5
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	G11	219.7	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	208.3
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	G12	219.7	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	208.3
2018	1	58783	Marselles Land and Water Company	IPP	Marselles 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	Marselles Land and Water Company	IPP	Marselles 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	Marselles Land and Water Company	IPP	Marselles 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	Marselles Land and Water Company	IPP	Marselles 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	G11	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	G12	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	G13	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	G14	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	G15	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	G16	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	G17	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	CC	(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	CC	(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	CC	(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	CC	(U) Under construction, less than or equal to 50 percent complete	460.0
2018	1	60159	RES America Developments Inc	IPP	Lamasa 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	436	H3	2.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.6
2018	1	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Sorghum to Ethanol Advanced Biorefin	FL	58997	G1001	12.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	15.0
2018	2	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	G16	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	Pincrest Energy Center	TX	59923	CTG-1	229.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	232.0
2018	2	59686	Coronado Power Ventures LLC	IPP	Pincrest Energy Center	TX	59923	CTG-2	229.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	232.0
2018	2	59686	Coronado Power Ventures LLC	IPP	Pincrest Energy Center	TX	59923	STG	289.0	Natural Gas Fired Combined Cycle	NG	CC	(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							

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	3	59260	Wright Solar Park, LLC	IPP	Wright Solar Park	CA	59255	FRWSF	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	G77	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	1G1A	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	1G1B	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	CTO01	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	60103	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	Enviromission, Inc	IPP	La Paz Solar Tower	AZ	58552	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	60251	GRP Franklin Renewable Energy Facility, LLC	IPP	GRP Franklin Renewable Energy Facility	GA	60550	GEN	93.5	Wood/Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	93.5
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	49806	Kennecott Utah Copper	Industrial	Kennecott Power Plant	UT	56163	SC7G	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	MCC2	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 Seawen 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 Seawen 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	G11	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	G12	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	G13	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	G14	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	6456	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	ZG1A	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6456	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	ZG1B	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6456	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC2ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	364.7
2018	10	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	244.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	301.5
2018	10	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	208.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	234.0
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 7	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 8	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 9	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC10	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory	

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	12	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	SSS16	60.0	Conventional Steam Coal	BIT	ST	(T) Regulatory approvals received. Not under construction	90.0
2018	12	53138	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	48993	inenergy 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	CT1	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	(L) Regulatory approvals pending. 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	850.0	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 Energy Center 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 Energy Center 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 Energy Center 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	Wanapur	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	Crickett Valley Energy Center LLC	IPP	Crickett 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	Crickett Valley Energy Center LLC	IPP	Crickett 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	Crickett Valley Energy Center LLC	IPP	Crickett 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	Ashville	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	Ashville	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	Ashville	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	Ashville	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	60278	64KT 8me, LLC	IPP	Springbok 3 Solar Farm	CA	60491	SB35F	90.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	90.0
2019	12	60289	Blazing Star Wind Farm, LLC	IPP	Blazing Star Wind Farm 1	SD	60504	BLZG1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
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
2019	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	ST	187.0	Natural Gas				

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)	
2020	6	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	59966	ESC Toga County Power	IPP	ESC Toga 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	59966	ESC Toga County Power	IPP	ESC Toga County Power	PA	60205	TCC11	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5	
2020	6	59966	ESC Toga County Power	IPP	ESC Toga County Power	PA	60205	TCC12	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	58917	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	59583	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	59583	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	58278	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	59277	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	I-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	I-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 table.
Entity ID and Plant ID are official, unique identification numbers assigned by EIA. Generator IDs are assigned by plant owners and/or operators.

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2016	9	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2016	9	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2016	10	6035	Exelon Power	IPP	Exelon L Street	MA	1587	GT1	16.0	Petroleum Liquids	DFO	GT
2016	10	14127	Omaha Public Power District	Electric Utility	Fort Calhoun	NE	2289	1	478.1	Nuclear	NUC	ST
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	14534	City of Pasadena - (CA)	Electric Utility	Broadway (CA)	CA	420	B3	71.0	Natural Gas Steam Turbine	NG	ST
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	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	EI 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	MIRGT	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
2016	12	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN1	0.4	Other Waste Biomass	OBG	IC
2016	12	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN2	0.4	Other Waste Biomass	OBG	IC
2017	1	5943	Entergy Nuc Fitzpatrick LLC	IPP	James A Fitzpatrick	NY	6110	1	836.8	Nuclear	NUC	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	Anvah 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
2017	12	13407	Nevada Power Co	Electric Utility	Reid Gardner	NV	2324	4	257.0	Conventional Steam Coal	BIT	ST
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	WGSN	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

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	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	120.8	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	WTG5	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 Alamos LLC	IPP	AES Alamos LLC	CA	315	1	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamos LLC	IPP	AES Alamos LLC	CA	315	2	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamos LLC	IPP	AES Alamos 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	Quetta 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	EI Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	EI 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	5										

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	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 table.
 Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.
 Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

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

Period	Coal	Natural Gas				Petroleum			
		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%	
August	68.5%	71.1%	14.3%	21.0%	NA	14.3%	3.1%	6.5%	

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-August 2016

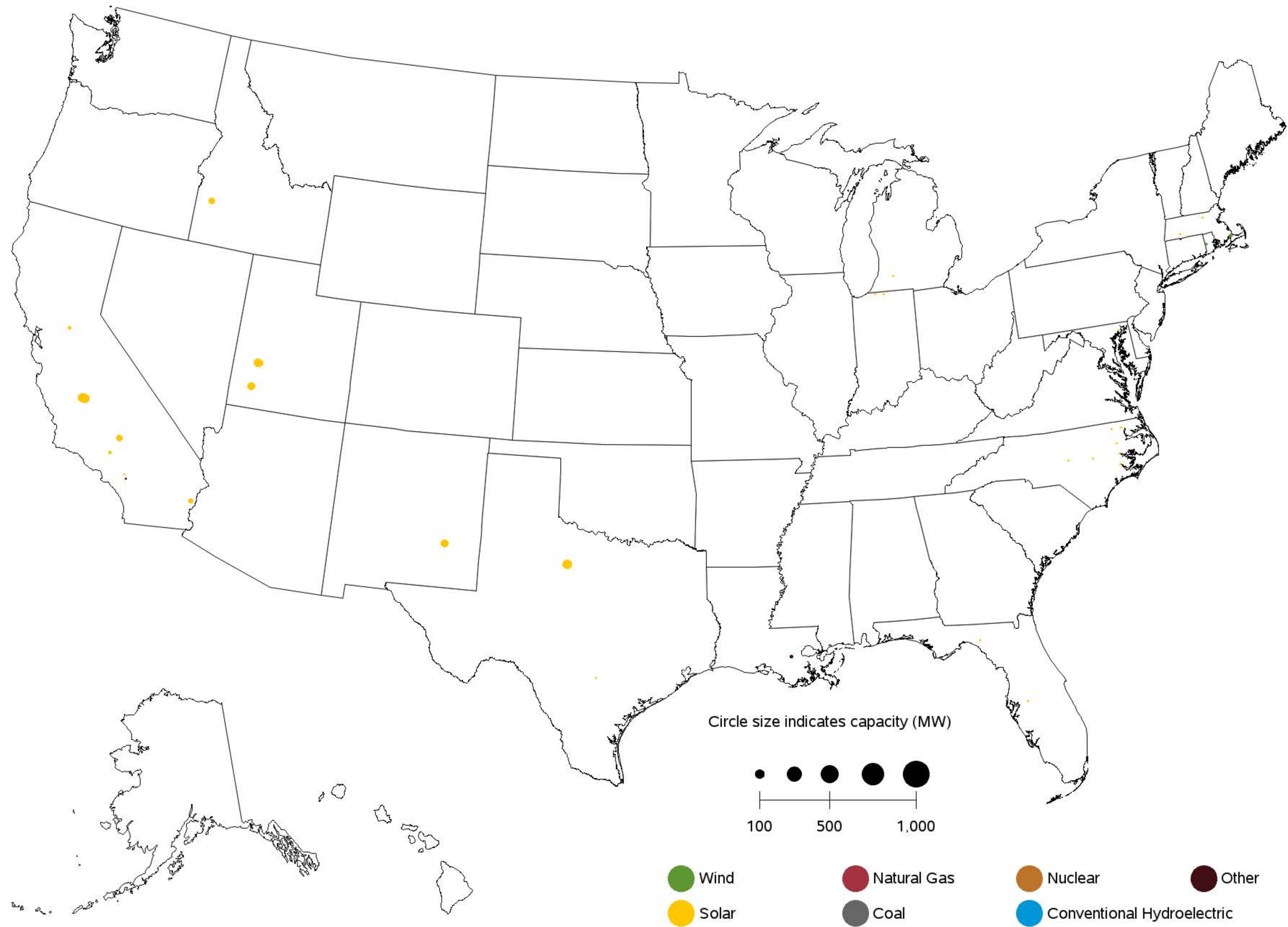
Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Municipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.2%	35.9%	32.5%	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%
August	96.3%	32.7%	24.5%	33.4%	29.2%	73.7%	54.9%	73.5%

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.

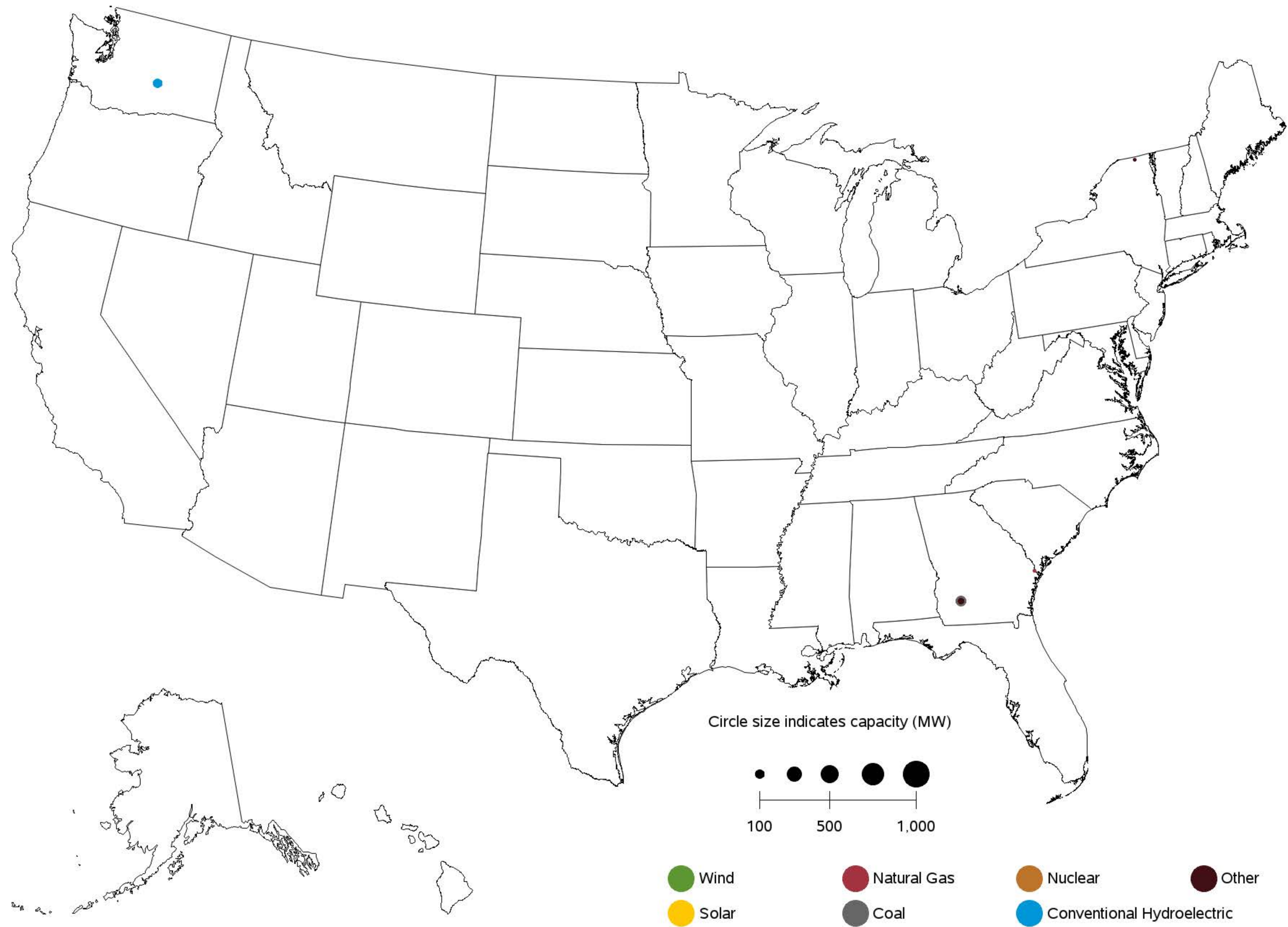
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



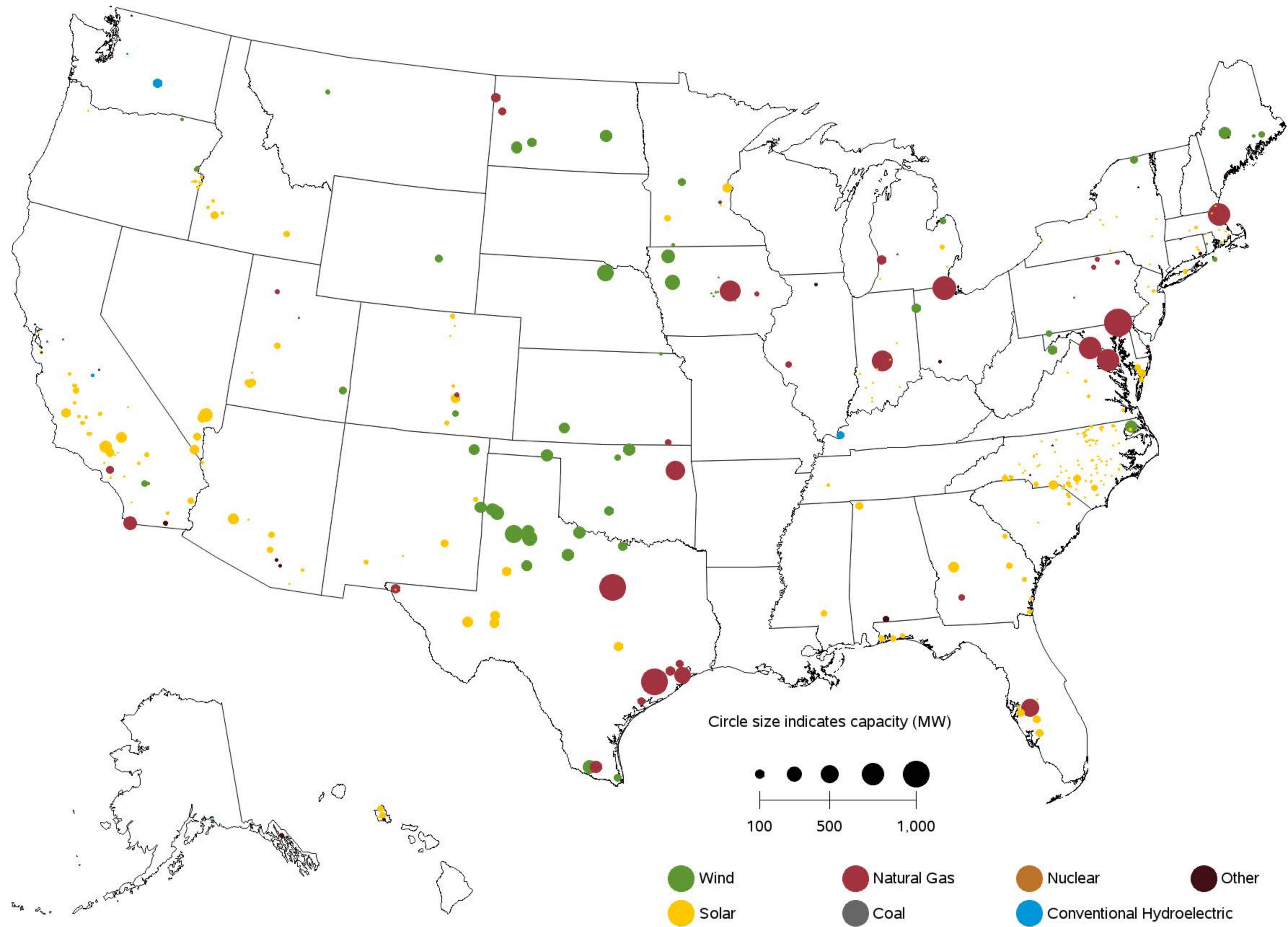
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



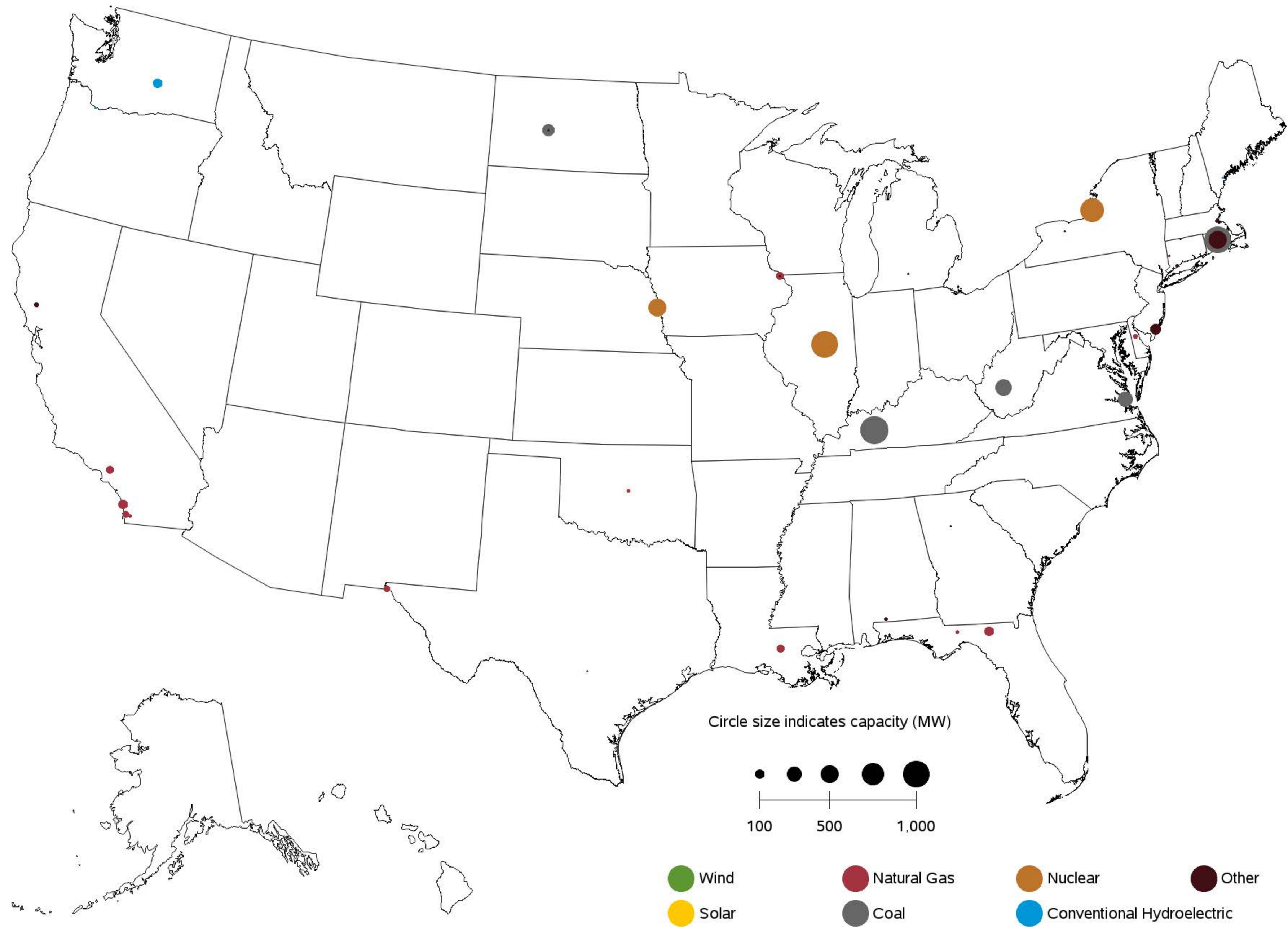
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



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

Figure 6.1.D. Utility-Scale Generating Units Planned to Retire from September 2016 to August 2017



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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	1	24	0	1	0	0	14
Connecticut	0	33	0	2	0	0	58
Maine	0	60	0	3	0	0	18
Massachusetts	2	38	0	2	0	0	41
New Hampshire	0	117	0	1	0	0	33
Rhode Island	0	119	0	2	0	0	536
Vermont	0	1,103	0	0	0	0	35
Middle Atlantic	1	25	71	1	27	0	3
New Jersey	0	175	180	1	88	0	237
New York	0	26	0	2	0	0	3
Pennsylvania	1	56	76	1	22	0	21
East North Central	0	17	6	1	13	0	21
Illinois	0	76	0	2	66	0	82
Indiana	0	55	0	2	16	0	16
Michigan	2	20	15	3	0	0	47
Ohio	1	17	3	1	38	0	28
Wisconsin	0	77	0	3	0	0	37
West North Central	0	36	118	4	200	0	7
Iowa	2	53	118	11	0	0	63
Kansas	0	37	0	15	0	0	257
Minnesota	2	120	0	4	0	0	71
Missouri	0	53	0	7	0	0	8
Nebraska	2	44	0	22	0	0	53
North Dakota	1	118	0	47	200	0	0
South Dakota	0	590	0	26	0	0	1
South Atlantic	0	6	0	0	0	0	7
Delaware	0	227	0	4	0	0	0
District of Columbia	0	0	0	97	0	0	0
Florida	0	4	0	0	0	0	83
Georgia	0	47	0	0	0	0	13
Maryland	0	41	0	4	0	0	5
North Carolina	1	25	0	0	0	0	10
South Carolina	0	29	0	1	0	0	21
Virginia	2	5	0	0	0	0	16
West Virginia	0	0	0	2	0	0	27
East South Central	0	22	0	1	82	0	4
Alabama	1	129	0	1	115	0	8
Kentucky	1	14	0	3	0	0	5
Mississippi	0	11	0	1	0	0	0
Tennessee	0	3	0	1	0	0	8
West South Central	0	24	5	0	4	0	6
Arkansas	0	0	0	1	0	0	10
Louisiana	0	5	4	1	6	0	0
Oklahoma	1	164	0	1	0	0	13
Texas	0	28	60	0	4	0	23
Mountain	1	51	0	1	72	0	5
Arizona	0	50	0	1	0	0	2
Colorado	0	522	0	3	0	0	37
Idaho	98	21,208	0	6	0	0	10
Montana	4	220	0	43	0	0	10
Nevada	0	0	0	0	0	0	6
New Mexico	0	128	0	5	0	0	158
Utah	1	49	0	5	0	0	72
Wyoming	2	9	0	47	73	0	9
Pacific Contiguous	0	36	0	1	6	0	2
California	0	39	0	2	7	0	6
Oregon	0	5,465	0	1	0	0	5
Washington	0	82	0	4	0	0	2
Pacific Noncontiguous	7	5	0	22	87	0	27
Alaska	18	18	0	22	0	0	27
Hawaii	8	5	0	0	87	0	130
U.S. Total	0	6	3	0	7	0	2

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

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

Total (All Sectors) by Census Division and State, August 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	10	3	0	4	1
Connecticut	0	0	0	59	3	0	5	1
Maine	0	0	0	0	1	0	12	4
Massachusetts	0	0	0	11	7	0	4	1
New Hampshire	0	0	0	0	11	0	28	2
Rhode Island	0	0	0	61	12	0	0	2
Vermont	0	0	0	36	14	0	0	21
Middle Atlantic	0	0	0	8	2	0	3	0
New Jersey	0	0	0	9	5	0	5	1
New York	0	0	0	20	2	0	6	1
Pennsylvania	0	0	0	24	3	0	5	1
East North Central	0	0	0	14	2	0	6	0
Illinois	0	0	0	28	1	0	22	0
Indiana	0	0	0	18	3	0	3	1
Michigan	0	0	0	81	4	0	9	1
Ohio	0	0	0	28	5	0	0	1
Wisconsin	0	0	0	168	5	0	29	1
West North Central	0	0	0	45	1	0	10	1
Iowa	0	0	0	0	1	0	0	2
Kansas	0	0	0	227	0	0	132	1
Minnesota	0	0	0	104	3	0	10	1
Missouri	0	0	0	56	4	0	0	1
Nebraska	0	0	0	114	1	0	0	2
North Dakota	0	0	0	0	1	0	39	2
South Dakota	0	0	0	0	1	0	0	4
South Atlantic	0	0	0	4	2	0	2	0
Delaware	0	0	0	29	20	0	0	3
District of Columbia	0	0	0	0	0	0	0	97
Florida	0	0	0	13	4	0	3	0
Georgia	0	0	0	7	3	0	0	0
Maryland	0	0	0	18	5	0	0	1
North Carolina	0	0	0	5	4	0	17	1
South Carolina	0	0	0	95	5	0	12	0
Virginia	0	0	0	131	2	0	5	0
West Virginia	0	0	0	0	1	0	0	0
East South Central	0	0	0	26	4	0	15	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	131	0
Tennessee	0	0	0	31	11	0	0	1
West South Central	0	0	0	6	1	0	7	0
Arkansas	0	0	0	66	5	0	0	1
Louisiana	0	0	0	0	7	0	8	1
Oklahoma	0	0	0	0	1	0	29	1
Texas	0	0	0	6	1	0	9	0
Mountain	0	5	0	1	1	0	5	1
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	9	1	0	58	1
Idaho	0	48	0	0	6	0	0	6
Montana	0	0	0	0	4	0	0	4
Nevada	0	6	0	2	3	0	78	1
New Mexico	0	128	0	8	3	0	0	2
Utah	0	10	0	2	3	0	4	2
Wyoming	0	0	0	0	2	0	0	2
Pacific Contiguous	0	4	0	1	1	0	9	1
California	0	4	0	1	1	0	9	1
Oregon	0	14	0	41	2	0	30	2
Washington	0	0	0	0	1	0	24	1
Pacific Noncontiguous	0	0	0	30	6	0	0	5
Alaska	0	0	0	0	37	0	0	13
Hawaii	0	0	0	30	5	0	0	4
U.S. Total	0	4	0	1	1	0	2	0

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	1	24	0	1	0	0	14
Connecticut	0	33	0	2	0	0	58
Maine	0	60	0	3	0	0	18
Massachusetts	2	38	0	2	0	0	41
New Hampshire	0	117	0	1	0	0	33
Rhode Island	0	119	0	2	0	0	536
Vermont	0	1,103	0	0	0	0	35
Middle Atlantic	1	25	71	1	27	0	3
New Jersey	0	175	180	1	88	0	237
New York	0	26	0	2	0	0	3
Pennsylvania	1	56	76	1	22	0	21
East North Central	0	17	6	1	13	0	21
Illinois	0	76	0	2	66	0	82
Indiana	0	55	0	2	16	0	16
Michigan	2	20	15	3	0	0	47
Ohio	1	17	3	1	38	0	28
Wisconsin	0	77	0	3	0	0	37
West North Central	0	36	118	4	200	0	7
Iowa	2	53	118	11	0	0	63
Kansas	0	37	0	15	0	0	257
Minnesota	2	120	0	4	0	0	71
Missouri	0	53	0	7	0	0	8
Nebraska	2	44	0	22	0	0	53
North Dakota	1	118	0	47	200	0	0
South Dakota	0	590	0	26	0	0	1
South Atlantic	0	6	0	0	0	0	7
Delaware	0	227	0	4	0	0	0
District of Columbia	0	0	0	97	0	0	0
Florida	0	4	0	0	0	0	83
Georgia	0	47	0	0	0	0	13
Maryland	0	41	0	4	0	0	5
North Carolina	1	25	0	0	0	0	10
South Carolina	0	29	0	1	0	0	21
Virginia	2	5	0	0	0	0	16
West Virginia	0	0	0	2	0	0	27
East South Central	0	22	0	1	82	0	4
Alabama	1	129	0	1	115	0	8
Kentucky	1	14	0	3	0	0	5
Mississippi	0	11	0	1	0	0	0
Tennessee	0	3	0	1	0	0	8
West South Central	0	24	5	0	4	0	6
Arkansas	0	0	0	1	0	0	10
Louisiana	0	5	4	1	6	0	0
Oklahoma	1	164	0	1	0	0	13
Texas	0	28	60	0	4	0	23
Mountain	1	51	0	1	72	0	5
Arizona	0	50	0	1	0	0	2
Colorado	0	522	0	3	0	0	37
Idaho	98	21,208	0	6	0	0	10
Montana	4	220	0	43	0	0	10
Nevada	0	0	0	0	0	0	6
New Mexico	0	128	0	5	0	0	158
Utah	1	49	0	5	0	0	72
Wyoming	2	9	0	47	73	0	9
Pacific Contiguous	0	36	0	1	6	0	2
California	0	39	0	2	7	0	6
Oregon	0	5,465	0	1	0	0	5
Washington	0	82	0	4	0	0	2
Pacific Noncontiguous	7	5	0	22	87	0	27
Alaska	18	18	0	22	0	0	27
Hawaii	8	5	0	0	87	0	130
U.S. Total	0	6	3	0	7	0	2

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through August 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	10	3	0	4	1
Connecticut	0	0	0	59	3	0	5	1
Maine	0	0	0	0	1	0	12	4
Massachusetts	0	0	0	11	7	0	4	1
New Hampshire	0	0	0	0	11	0	28	2
Rhode Island	0	0	0	61	12	0	0	2
Vermont	0	0	0	36	14	0	0	21
Middle Atlantic	0	0	0	8	2	0	3	0
New Jersey	0	0	0	9	5	0	5	1
New York	0	0	0	20	2	0	6	1
Pennsylvania	0	0	0	24	3	0	5	1
East North Central	0	0	0	14	2	0	6	0
Illinois	0	0	0	28	1	0	22	0
Indiana	0	0	0	18	3	0	3	1
Michigan	0	0	0	81	4	0	9	1
Ohio	0	0	0	28	5	0	0	1
Wisconsin	0	0	0	168	5	0	29	1
West North Central	0	0	0	45	1	0	10	1
Iowa	0	0	0	0	1	0	0	2
Kansas	0	0	0	227	0	0	132	1
Minnesota	0	0	0	104	3	0	10	1
Missouri	0	0	0	56	4	0	0	1
Nebraska	0	0	0	114	1	0	0	2
North Dakota	0	0	0	0	1	0	39	2
South Dakota	0	0	0	0	1	0	0	4
South Atlantic	0	0	0	4	2	0	2	0
Delaware	0	0	0	29	20	0	0	3
District of Columbia	0	0	0	0	0	0	0	97
Florida	0	0	0	13	4	0	3	0
Georgia	0	0	0	7	3	0	0	0
Maryland	0	0	0	18	5	0	0	1
North Carolina	0	0	0	5	4	0	17	1
South Carolina	0	0	0	95	5	0	12	0
Virginia	0	0	0	131	2	0	5	0
West Virginia	0	0	0	0	1	0	0	0
East South Central	0	0	0	26	4	0	15	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	131	0
Tennessee	0	0	0	31	11	0	0	1
West South Central	0	0	0	6	1	0	7	0
Arkansas	0	0	0	66	5	0	0	1
Louisiana	0	0	0	0	7	0	8	1
Oklahoma	0	0	0	0	1	0	29	1
Texas	0	0	0	6	1	0	9	0
Mountain	0	5	0	1	1	0	5	1
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	9	1	0	58	1
Idaho	0	48	0	0	6	0	0	6
Montana	0	0	0	0	4	0	0	4
Nevada	0	6	0	2	3	0	78	1
New Mexico	0	128	0	8	3	0	0	2
Utah	0	10	0	2	3	0	4	2
Wyoming	0	0	0	0	2	0	0	2
Pacific Contiguous	0	4	0	1	1	0	9	1
California	0	4	0	1	1	0	9	1
Oregon	0	14	0	41	2	0	30	2
Washington	0	0	0	0	1	0	24	1
Pacific Noncontiguous	0	0	0	30	6	0	0	5
Alaska	0	0	0	0	37	0	0	13
Hawaii	0	0	0	30	5	0	0	4
U.S. Total	0	4	0	1	1	0	2	0

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	78	0	5	0	0	38
Connecticut	0	325	0	0	0	0	204
Maine	0	346	0	0	0	0	0
Massachusetts	0	53	0	6	0	0	78
New Hampshire	0	95	0	0	0	0	58
Rhode Island	0	42	0	0	0	0	0
Vermont	0	1,250	0	0	0	0	58
Middle Atlantic	0	13	0	5	0	0	1
New Jersey	0	1,657	0	141	0	0	0
New York	0	13	0	5	0	0	1
Pennsylvania	0	130	0	320	0	0	134
East North Central	0	29	0	2	41	0	23
Illinois	0	752	0	11	0	0	175
Indiana	0	59	0	2	146	0	16
Michigan	2	21	0	4	0	0	49
Ohio	2	42	0	4	0	0	11
Wisconsin	0	96	0	4	0	0	39
West North Central	0	35	0	4	0	0	7
Iowa	2	54	0	11	0	0	63
Kansas	0	37	0	15	0	0	0
Minnesota	2	125	0	4	0	0	95
Missouri	0	53	0	10	0	0	8
Nebraska	2	44	0	22	0	0	53
North Dakota	1	119	0	48	0	0	0
South Dakota	0	597	0	26	0	0	1
South Atlantic	0	3	0	0	0	0	8
Delaware	0	869	0	175	0	0	0
Florida	0	0	0	0	0	0	83
Georgia	0	7	0	0	0	0	13
Maryland	0	317	0	0	0	0	0
North Carolina	0	9	0	0	0	0	10
South Carolina	0	13	0	2	0	0	22
Virginia	0	1	0	0	0	0	14
West Virginia	0	0	0	0	0	0	63
East South Central	0	5	0	1	0	0	4
Alabama	1	0	0	4	0	0	8
Kentucky	1	14	0	4	0	0	4
Mississippi	0	15	0	1	0	0	0
Tennessee	0	1	0	0	0	0	8
West South Central	0	21	0	1	0	0	7
Arkansas	0	0	0	3	0	0	10
Louisiana	0	5	0	1	0	0	0
Oklahoma	0	9	0	1	0	0	13
Texas	0	35	0	1	0	0	22
Mountain	0	60	0	1	0	0	5
Arizona	0	50	0	1	0	0	2
Colorado	0	523	0	2	0	0	37
Idaho	0	21,208	0	8	0	0	11
Montana	97	537	0	45	0	0	9
Nevada	0	0	0	0	0	0	0
New Mexico	0	129	0	7	0	0	158
Utah	0	3	0	6	0	0	72
Wyoming	1	3	0	108	0	0	9
Pacific Contiguous	0	58	0	3	0	0	2
California	0	38	0	4	0	0	6
Oregon	0	0	0	1	0	0	5
Washington	0	1,304	0	6	0	0	2
Pacific Noncontiguous	0	3	0	22	0	0	27
Alaska	0	19	0	22	0	0	27
Hawaii	0	2	0	0	0	0	379
U.S. Total	0	3	0	0	41	0	2

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

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

Electric Utilities by Census Division and State, August 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	59	4	0	0	8
Connecticut	0	0	0	153	153	0	0	121
Maine	0	0	0	0	0	0	0	346
Massachusetts	0	0	0	63	54	0	0	13
New Hampshire	0	0	0	0	0	0	0	7
Rhode Island	0	0	0	0	0	0	0	42
Vermont	0	0	0	0	0	0	0	25
Middle Atlantic	0	0	0	28	28	0	0	2
New Jersey	0	0	0	28	28	0	0	21
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	139
East North Central	0	0	0	35	3	0	0	1
Illinois	0	0	0	186	126	0	0	5
Indiana	0	0	0	45	13	0	0	0
Michigan	0	0	0	81	3	0	0	1
Ohio	0	0	0	63	69	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	2
Kansas	0	0	0	0	0	0	0	1
Minnesota	0	0	0	0	6	0	0	1
Missouri	0	0	0	0	25	0	0	1
Nebraska	0	0	0	0	11	0	0	2
North Dakota	0	0	0	0	1	0	39	2
South Dakota	0	0	0	0	1	0	0	5
South Atlantic	0	0	0	9	2	0	0	0
Delaware	0	0	0	79	79	0	0	162
Florida	0	0	0	14	10	0	0	0
Georgia	0	0	0	20	20	0	0	0
Maryland	0	0	0	68	68	0	0	163
North Carolina	0	0	0	12	12	0	0	0
South Carolina	0	0	0	0	5	0	0	0
Virginia	0	0	0	131	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	238	0	0	1
Kentucky	0	0	0	0	17	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	0
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	80	1
Arizona	0	0	0	9	9	0	0	0
Colorado	0	0	0	0	25	0	0	1
Idaho	0	0	0	0	65	0	0	8
Montana	0	0	0	0	0	0	0	11
Nevada	0	0	0	59	59	0	78	0
New Mexico	0	0	0	19	19	0	0	2
Utah	0	0	0	0	0	0	0	2
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	0	3	0	11	1	0	0	1
California	0	0	0	11	2	0	0	2
Oregon	0	164	0	80	2	0	0	3
Washington	0	0	0	0	1	0	0	2
Pacific Noncontiguous	0	0	0	46	24	0	0	7
Alaska	0	0	0	0	60	0	0	14
Hawaii	0	0	0	46	22	0	0	2
U.S. Total	0	2	0	5	1	0	6	0

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	78	0	5	0	0	38
Connecticut	0	325	0	0	0	0	204
Maine	0	346	0	0	0	0	0
Massachusetts	0	53	0	6	0	0	78
New Hampshire	0	95	0	0	0	0	58
Rhode Island	0	42	0	0	0	0	0
Vermont	0	1,250	0	0	0	0	58
Middle Atlantic	0	13	0	5	0	0	1
New Jersey	0	1,657	0	141	0	0	0
New York	0	13	0	5	0	0	1
Pennsylvania	0	130	0	320	0	0	134
East North Central	0	29	0	2	41	0	23
Illinois	0	752	0	11	0	0	175
Indiana	0	59	0	2	146	0	16
Michigan	2	21	0	4	0	0	49
Ohio	2	42	0	4	0	0	11
Wisconsin	0	96	0	4	0	0	39
West North Central	0	35	0	4	0	0	7
Iowa	2	54	0	11	0	0	63
Kansas	0	37	0	15	0	0	0
Minnesota	2	125	0	4	0	0	95
Missouri	0	53	0	10	0	0	8
Nebraska	2	44	0	22	0	0	53
North Dakota	1	119	0	48	0	0	0
South Dakota	0	597	0	26	0	0	1
South Atlantic	0	3	0	0	0	0	8
Delaware	0	869	0	175	0	0	0
Florida	0	0	0	0	0	0	83
Georgia	0	7	0	0	0	0	13
Maryland	0	317	0	0	0	0	0
North Carolina	0	9	0	0	0	0	10
South Carolina	0	13	0	2	0	0	22
Virginia	0	1	0	0	0	0	14
West Virginia	0	0	0	0	0	0	63
East South Central	0	5	0	1	0	0	4
Alabama	1	0	0	4	0	0	8
Kentucky	1	14	0	4	0	0	4
Mississippi	0	15	0	1	0	0	0
Tennessee	0	1	0	0	0	0	8
West South Central	0	21	0	1	0	0	7
Arkansas	0	0	0	3	0	0	10
Louisiana	0	5	0	1	0	0	0
Oklahoma	0	9	0	1	0	0	13
Texas	0	35	0	1	0	0	22
Mountain	0	60	0	1	0	0	5
Arizona	0	50	0	1	0	0	2
Colorado	0	523	0	2	0	0	37
Idaho	0	21,208	0	8	0	0	11
Montana	97	537	0	45	0	0	9
Nevada	0	0	0	0	0	0	0
New Mexico	0	129	0	7	0	0	158
Utah	0	3	0	6	0	0	72
Wyoming	1	3	0	108	0	0	9
Pacific Contiguous	0	58	0	3	0	0	2
California	0	38	0	4	0	0	6
Oregon	0	0	0	1	0	0	5
Washington	0	1,304	0	6	0	0	2
Pacific Noncontiguous	0	3	0	22	0	0	27
Alaska	0	19	0	22	0	0	27
Hawaii	0	2	0	0	0	0	379
U.S. Total	0	3	0	0	41	0	2

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

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

Electric Utilities by Census Division and State, Year-to-Date through August 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	59	4	0	0	8
Connecticut	0	0	0	153	153	0	0	121
Maine	0	0	0	0	0	0	0	346
Massachusetts	0	0	0	63	54	0	0	13
New Hampshire	0	0	0	0	0	0	0	7
Rhode Island	0	0	0	0	0	0	0	42
Vermont	0	0	0	0	0	0	0	25
Middle Atlantic	0	0	0	28	28	0	0	2
New Jersey	0	0	0	28	28	0	0	21
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	139
East North Central	0	0	0	35	3	0	0	1
Illinois	0	0	0	186	126	0	0	5
Indiana	0	0	0	45	13	0	0	0
Michigan	0	0	0	81	3	0	0	1
Ohio	0	0	0	63	69	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	2
Kansas	0	0	0	0	0	0	0	1
Minnesota	0	0	0	0	6	0	0	1
Missouri	0	0	0	0	25	0	0	1
Nebraska	0	0	0	0	11	0	0	2
North Dakota	0	0	0	0	1	0	39	2
South Dakota	0	0	0	0	1	0	0	5
South Atlantic	0	0	0	9	2	0	0	0
Delaware	0	0	0	79	79	0	0	162
Florida	0	0	0	14	10	0	0	0
Georgia	0	0	0	20	20	0	0	0
Maryland	0	0	0	68	68	0	0	163
North Carolina	0	0	0	12	12	0	0	0
South Carolina	0	0	0	0	5	0	0	0
Virginia	0	0	0	131	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	238	0	0	1
Kentucky	0	0	0	0	17	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	0
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	80	1
Arizona	0	0	0	9	9	0	0	0
Colorado	0	0	0	0	25	0	0	1
Idaho	0	0	0	0	65	0	0	8
Montana	0	0	0	0	0	0	0	11
Nevada	0	0	0	59	59	0	78	0
New Mexico	0	0	0	19	19	0	0	2
Utah	0	0	0	0	0	0	0	2
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	0	3	0	11	1	0	0	1
California	0	0	0	11	2	0	0	2
Oregon	0	164	0	80	2	0	0	3
Washington	0	0	0	0	1	0	0	2
Pacific Noncontiguous	0	0	0	46	24	0	0	7
Alaska	0	0	0	0	60	0	0	14
Hawaii	0	0	0	46	22	0	0	2
U.S. Total	0	2	0	5	1	0	6	0

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

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

Independent Power Producers by Census Division and State, August 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	21	0	1	0	0	15
Connecticut	0	30	0	2	0	0	60
Maine	0	36	0	1	0	0	19
Massachusetts	0	39	0	2	0	0	49
New Hampshire	0	1,592	0	0	0	0	39
Rhode Island	0	0	0	2	0	0	536
Vermont	0	0	0	0	0	0	43
Middle Atlantic	1	47	0	1	0	0	15
New Jersey	0	162	0	1	0	0	237
New York	0	83	0	2	0	0	18
Pennsylvania	1	57	0	1	0	0	21
East North Central	0	12	0	1	17	0	61
Illinois	0	0	0	2	0	0	75
Indiana	3	4,055	0	4	0	0	0
Michigan	6	0	0	3	0	0	173
Ohio	0	17	0	1	44	0	81
Wisconsin	0	0	0	0	0	0	184
West North Central	153	512	0	2	0	0	113
Iowa	0	162	0	1,425	0	0	722
Kansas	0	0	0	0	0	0	257
Minnesota	0	589	0	4	0	0	123
Missouri	153	0	0	2	0	0	0
South Dakota	0	591	0	0	0	0	0
South Atlantic	2	30	0	1	0	0	16
Delaware	0	209	0	4	0	0	0
Florida	0	594	0	3	0	0	0
Georgia	0	1,522	0	1	0	0	283
Maryland	0	40	0	3	0	0	5
North Carolina	51	323	0	0	0	0	153
South Carolina	0	547	0	4	0	0	126
Virginia	19	5	0	1	0	0	146
West Virginia	1	0	0	5	0	0	2
East South Central	0	111	0	0	0	0	431
Alabama	0	173	0	0	0	0	0
Kentucky	0	0	0	0	0	0	431
Mississippi	0	0	0	0	0	0	0
Tennessee	0	144	0	493	0	0	0
West South Central	0	0	0	0	0	0	8
Arkansas	0	0	0	0	0	0	251
Louisiana	0	0	0	1	0	0	0
Oklahoma	0	0	0	1	0	0	0
Texas	0	0	0	0	0	0	204
Mountain	4	12	0	1	0	0	35
Arizona	0	0	0	0	0	0	0
Colorado	205	0	0	14	0	0	127
Idaho	0	0	0	6	0	0	34
Montana	3	5	0	134	0	0	147
Nevada	0	0	0	7	0	0	284
New Mexico	0	0	0	1	0	0	0
Utah	88	500	0	56	0	0	679
Wyoming	63	0	0	912	0	0	597
Pacific Contiguous	0	79	0	2	0	0	29
California	0	320	0	2	0	0	32
Oregon	0	0	0	3	0	0	94
Washington	0	12	0	0	0	0	103
Pacific Noncontiguous	5	2	0	0	0	0	0
Alaska	59	0	0	0	0	0	0
Hawaii	0	2	0	0	0	0	0
U.S. Total	0	11	0	0	9	0	9

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

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

Independent Power Producers by Census Division and State, August 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	4	0	3	1
Connecticut	0	0	0	64	3	0	5	1
Maine	0	0	0	0	1	0	7	4
Massachusetts	0	0	0	11	7	0	4	1
New Hampshire	0	0	0	0	14	0	28	2
Rhode Island	0	0	0	61	11	0	0	2
Vermont	0	0	0	36	33	0	0	31
Middle Atlantic	0	0	0	9	2	0	3	0
New Jersey	0	0	0	11	6	0	7	1
New York	0	0	0	20	2	0	4	1
Pennsylvania	0	0	0	27	2	0	5	1
East North Central	0	0	0	15	2	0	14	0
Illinois	0	0	0	28	1	0	0	0
Indiana	0	0	0	19	3	0	0	2
Michigan	0	0	0	0	6	0	14	2
Ohio	0	0	0	32	6	0	0	0
Wisconsin	0	0	0	168	8	0	0	1
West North Central	0	0	0	51	1	0	18	1
Iowa	0	0	0	0	2	0	0	1
Kansas	0	0	0	227	0	0	0	1
Minnesota	0	0	0	104	4	0	18	3
Missouri	0	0	0	70	4	0	0	2
Nebraska	0	0	0	114	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	20	0	0	3
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	27	4	0	3	2
Georgia	0	0	0	7	7	0	0	1
Maryland	0	0	0	19	5	0	0	1
North Carolina	0	0	0	5	5	0	17	5
South Carolina	0	0	0	95	40	0	123	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	32	8	0	0	0
Alabama	0	0	0	0	4	0	0	0
Kentucky	0	0	0	0	85	0	0	2
Mississippi	0	0	0	0	56	0	0	0
Tennessee	0	0	0	32	19	0	0	34
West South Central	0	0	0	6	0	0	29	0
Arkansas	0	0	0	66	27	0	0	0
Louisiana	0	0	0	0	21	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	6	0	0	72	0
Mountain	0	6	0	1	1	0	2	1
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	9	1	0	601	4
Idaho	0	48	0	0	7	0	0	7
Montana	0	0	0	0	4	0	0	3
Nevada	0	6	0	2	3	0	0	3
New Mexico	0	128	0	7	3	0	0	1
Utah	0	20	0	2	3	0	175	11
Wyoming	0	0	0	0	4	0	0	25
Pacific Contiguous	0	4	0	1	1	0	10	1
California	0	4	0	1	1	0	11	1
Oregon	0	0	0	46	2	0	30	2
Washington	0	0	0	0	1	0	24	1
Pacific Noncontiguous	0	0	0	39	6	0	0	3
Alaska	0	0	0	0	85	0	0	51
Hawaii	0	0	0	39	6	0	0	2
U.S. Total	0	4	0	1	1	0	2	0

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	21	0	1	0	0	15
Connecticut	0	30	0	2	0	0	60
Maine	0	36	0	1	0	0	19
Massachusetts	0	39	0	2	0	0	49
New Hampshire	0	1,592	0	0	0	0	39
Rhode Island	0	0	0	2	0	0	536
Vermont	0	0	0	0	0	0	43
Middle Atlantic	1	47	0	1	0	0	15
New Jersey	0	162	0	1	0	0	237
New York	0	83	0	2	0	0	18
Pennsylvania	1	57	0	1	0	0	21
East North Central	0	12	0	1	17	0	61
Illinois	0	0	0	2	0	0	75
Indiana	3	4,055	0	4	0	0	0
Michigan	6	0	0	3	0	0	173
Ohio	0	17	0	1	44	0	81
Wisconsin	0	0	0	0	0	0	184
West North Central	153	512	0	2	0	0	113
Iowa	0	162	0	1,425	0	0	722
Kansas	0	0	0	0	0	0	257
Minnesota	0	589	0	4	0	0	123
Missouri	153	0	0	2	0	0	0
South Dakota	0	591	0	0	0	0	0
South Atlantic	2	30	0	1	0	0	16
Delaware	0	209	0	4	0	0	0
Florida	0	594	0	3	0	0	0
Georgia	0	1,522	0	1	0	0	283
Maryland	0	40	0	3	0	0	5
North Carolina	51	323	0	0	0	0	153
South Carolina	0	547	0	4	0	0	126
Virginia	19	5	0	1	0	0	146
West Virginia	1	0	0	5	0	0	2
East South Central	0	111	0	0	0	0	431
Alabama	0	173	0	0	0	0	0
Kentucky	0	0	0	0	0	0	431
Mississippi	0	0	0	0	0	0	0
Tennessee	0	144	0	493	0	0	0
West South Central	0	0	0	0	0	0	8
Arkansas	0	0	0	0	0	0	251
Louisiana	0	0	0	1	0	0	0
Oklahoma	0	0	0	1	0	0	0
Texas	0	0	0	0	0	0	204
Mountain	4	12	0	1	0	0	35
Arizona	0	0	0	0	0	0	0
Colorado	205	0	0	14	0	0	127
Idaho	0	0	0	6	0	0	34
Montana	3	5	0	134	0	0	147
Nevada	0	0	0	7	0	0	284
New Mexico	0	0	0	1	0	0	0
Utah	88	500	0	56	0	0	679
Wyoming	63	0	0	912	0	0	597
Pacific Contiguous	0	79	0	2	0	0	29
California	0	320	0	2	0	0	32
Oregon	0	0	0	3	0	0	94
Washington	0	12	0	0	0	0	103
Pacific Noncontiguous	5	2	0	0	0	0	0
Alaska	59	0	0	0	0	0	0
Hawaii	0	2	0	0	0	0	0
U.S. Total	0	11	0	0	9	0	9

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

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

Independent Power Producers by Census Division and State, Year-to-Date through August 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	4	0	3	1
Connecticut	0	0	0	64	3	0	5	1
Maine	0	0	0	0	1	0	7	4
Massachusetts	0	0	0	11	7	0	4	1
New Hampshire	0	0	0	0	14	0	28	2
Rhode Island	0	0	0	61	11	0	0	2
Vermont	0	0	0	36	33	0	0	31
Middle Atlantic	0	0	0	9	2	0	3	0
New Jersey	0	0	0	11	6	0	7	1
New York	0	0	0	20	2	0	4	1
Pennsylvania	0	0	0	27	2	0	5	1
East North Central	0	0	0	15	2	0	14	0
Illinois	0	0	0	28	1	0	0	0
Indiana	0	0	0	19	3	0	0	2
Michigan	0	0	0	0	6	0	14	2
Ohio	0	0	0	32	6	0	0	0
Wisconsin	0	0	0	168	8	0	0	1
West North Central	0	0	0	51	1	0	18	1
Iowa	0	0	0	0	2	0	0	1
Kansas	0	0	0	227	0	0	0	1
Minnesota	0	0	0	104	4	0	18	3
Missouri	0	0	0	70	4	0	0	2
Nebraska	0	0	0	114	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	20	0	0	3
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	27	4	0	3	2
Georgia	0	0	0	7	7	0	0	1
Maryland	0	0	0	19	5	0	0	1
North Carolina	0	0	0	5	5	0	17	5
South Carolina	0	0	0	95	40	0	123	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	32	8	0	0	0
Alabama	0	0	0	0	4	0	0	0
Kentucky	0	0	0	0	85	0	0	2
Mississippi	0	0	0	0	56	0	0	0
Tennessee	0	0	0	32	19	0	0	34
West South Central	0	0	0	6	0	0	29	0
Arkansas	0	0	0	66	27	0	0	0
Louisiana	0	0	0	0	21	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	6	0	0	72	0
Mountain	0	6	0	1	1	0	2	1
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	9	1	0	601	4
Idaho	0	48	0	0	7	0	0	7
Montana	0	0	0	0	4	0	0	3
Nevada	0	6	0	2	3	0	0	3
New Mexico	0	128	0	7	3	0	0	1
Utah	0	20	0	2	3	0	175	11
Wyoming	0	0	0	0	4	0	0	25
Pacific Contiguous	0	4	0	1	1	0	10	1
California	0	4	0	1	1	0	11	1
Oregon	0	0	0	46	2	0	30	2
Washington	0	0	0	0	1	0	24	1
Pacific Noncontiguous	0	0	0	39	6	0	0	3
Alaska	0	0	0	0	85	0	0	51
Hawaii	0	0	0	39	6	0	0	2
U.S. Total	0	4	0	1	1	0	2	0

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	146	0	21	0	0	477
Connecticut	0	196	0	40	0	0	0
Maine	0	429	0	158	0	0	0
Massachusetts	0	198	0	21	0	0	477
New Hampshire	0	462	0	202	0	0	0
Rhode Island	0	243	0	109	0	0	0
Vermont	0	820	0	0	0	0	0
Middle Atlantic	325	287	0	20	0	0	476
New Jersey	0	2,428	0	55	0	0	0
New York	0	289	0	21	0	0	476
Pennsylvania	325	1,310	0	59	0	0	0
East North Central	56	182	0	20	0	0	622
Illinois	215	185	0	26	0	0	622
Indiana	46	945	0	32	0	0	0
Michigan	0	51	0	32	0	0	0
Ohio	492	367	0	64	0	0	0
Wisconsin	646	555	0	89	0	0	0
West North Central	52	76	0	51	0	0	0
Iowa	67	266	0	107	0	0	0
Minnesota	190	81	0	88	0	0	0
Missouri	0	380	0	0	0	0	0
Nebraska	0	0	0	955	0	0	0
North Dakota	0	453	0	0	0	0	0
South Dakota	0	945	0	0	0	0	0
South Atlantic	91	385	0	30	0	0	165
District of Columbia	0	0	0	97	0	0	0
Florida	0	0	0	98	0	0	0
Georgia	0	89	0	0	0	0	0
Maryland	0	3,598	0	36	0	0	0
North Carolina	0	233	0	0	0	0	152
South Carolina	0	1,409	0	166	0	0	660
Virginia	395	718	0	308	0	0	0
East South Central	0	747	0	63	0	0	0
Mississippi	0	0	0	179	0	0	0
Tennessee	0	747	0	68	0	0	0
West South Central	0	2,661	0	21	0	0	0
Arkansas	0	0	0	472	0	0	0
Louisiana	0	0	0	64	0	0	0
Oklahoma	0	49,471	0	114	0	0	0
Texas	0	1,964	0	21	0	0	0
Mountain	0	889	0	18	0	0	589
Arizona	0	889	0	30	0	0	0
Colorado	0	0	0	0	0	0	589
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	44	0	0	0
New Mexico	0	0	0	34	0	0	0
Utah	0	0	0	39	0	0	0
Pacific Contiguous	0	247	0	12	0	0	280
California	0	259	0	9	0	0	280
Oregon	0	5,465	0	130	0	0	0
Washington	0	367	0	223	0	0	0
Pacific Noncontiguous	45	20	0	383	0	0	0
Alaska	45	93	0	383	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	31	141	0	8	0	0	160

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

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

Commercial Sector by Census Division and State, August 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	90	31	0	38	18
Connecticut	0	0	0	0	0	0	0	39
Maine	0	0	0	0	39	0	38	31
Massachusetts	0	0	0	90	79	0	0	22
New Hampshire	0	0	0	0	63	0	0	103
Rhode Island	0	0	0	0	218	0	0	94
Vermont	0	0	0	0	263	0	0	265
Middle Atlantic	0	0	0	19	12	0	14	14
New Jersey	0	0	0	20	11	0	0	18
New York	0	0	0	208	26	0	24	20
Pennsylvania	0	0	0	85	48	0	0	48
East North Central	0	0	0	113	15	0	13	15
Illinois	0	0	0	0	311	0	0	26
Indiana	0	0	0	0	88	0	82	25
Michigan	0	0	0	0	12	0	12	22
Ohio	0	0	0	113	139	0	0	62
Wisconsin	0	0	0	0	67	0	0	76
West North Central	0	0	0	227	16	0	54	28
Iowa	0	0	0	0	74	0	0	58
Minnesota	0	0	0	0	28	0	54	54
Missouri	0	0	0	227	7	0	0	3
Nebraska	0	0	0	0	100	0	0	123
North Dakota	0	0	0	0	0	0	0	453
South Dakota	0	0	0	0	0	0	0	945
South Atlantic	0	0	0	22	12	0	12	16
Delaware	0	0	0	144	159	0	0	159
District of Columbia	0	0	0	0	0	0	0	97
Florida	0	0	0	155	73	0	0	75
Georgia	0	0	0	112	112	0	0	80
Maryland	0	0	0	96	74	0	0	34
North Carolina	0	0	0	24	22	0	0	17
South Carolina	0	0	0	0	0	0	0	162
Virginia	0	0	0	0	13	0	12	14
East South Central	0	0	0	114	114	0	0	62
Mississippi	0	0	0	0	0	0	0	179
Tennessee	0	0	0	114	114	0	0	66
West South Central	0	0	0	132	60	0	0	20
Arkansas	0	0	0	0	183	0	0	226
Louisiana	0	0	0	0	0	0	0	64
Oklahoma	0	0	0	0	0	0	0	116
Texas	0	0	0	132	62	0	0	20
Mountain	0	0	0	25	28	0	0	17
Arizona	0	0	0	46	46	0	0	26
Colorado	0	0	0	52	72	0	0	133
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	34	34	0	0	27
New Mexico	0	0	0	0	359	0	0	34
Utah	0	0	0	0	0	0	0	39
Pacific Contiguous	0	0	0	23	11	0	0	9
California	0	0	0	23	11	0	0	7
Oregon	0	0	0	0	83	0	0	109
Washington	0	0	0	0	95	0	0	153
Pacific Noncontiguous	0	0	0	0	8	0	0	9
Alaska	0	0	0	0	54	0	0	38
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	0	0	0	11	6	0	7	6

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	0	146	0	21	0	0	477
Connecticut	0	196	0	40	0	0	0
Maine	0	429	0	158	0	0	0
Massachusetts	0	198	0	21	0	0	477
New Hampshire	0	462	0	202	0	0	0
Rhode Island	0	243	0	109	0	0	0
Vermont	0	820	0	0	0	0	0
Middle Atlantic	325	287	0	20	0	0	476
New Jersey	0	2,428	0	55	0	0	0
New York	0	289	0	21	0	0	476
Pennsylvania	325	1,310	0	59	0	0	0
East North Central	56	182	0	20	0	0	622
Illinois	215	185	0	26	0	0	622
Indiana	46	945	0	32	0	0	0
Michigan	0	51	0	32	0	0	0
Ohio	492	367	0	64	0	0	0
Wisconsin	646	555	0	89	0	0	0
West North Central	52	76	0	51	0	0	0
Iowa	67	266	0	107	0	0	0
Minnesota	190	81	0	88	0	0	0
Missouri	0	380	0	0	0	0	0
Nebraska	0	0	0	955	0	0	0
North Dakota	0	453	0	0	0	0	0
South Dakota	0	945	0	0	0	0	0
South Atlantic	91	385	0	30	0	0	165
District of Columbia	0	0	0	97	0	0	0
Florida	0	0	0	98	0	0	0
Georgia	0	89	0	0	0	0	0
Maryland	0	3,598	0	36	0	0	0
North Carolina	0	233	0	0	0	0	152
South Carolina	0	1,409	0	166	0	0	660
Virginia	395	718	0	308	0	0	0
East South Central	0	747	0	63	0	0	0
Mississippi	0	0	0	179	0	0	0
Tennessee	0	747	0	68	0	0	0
West South Central	0	2,661	0	21	0	0	0
Arkansas	0	0	0	472	0	0	0
Louisiana	0	0	0	64	0	0	0
Oklahoma	0	49,471	0	114	0	0	0
Texas	0	1,964	0	21	0	0	0
Mountain	0	889	0	18	0	0	589
Arizona	0	889	0	30	0	0	0
Colorado	0	0	0	0	0	0	589
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	44	0	0	0
New Mexico	0	0	0	34	0	0	0
Utah	0	0	0	39	0	0	0
Pacific Contiguous	0	247	0	12	0	0	280
California	0	259	0	9	0	0	280
Oregon	0	5,465	0	130	0	0	0
Washington	0	367	0	223	0	0	0
Pacific Noncontiguous	45	20	0	383	0	0	0
Alaska	45	93	0	383	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	31	141	0	8	0	0	160

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

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

Commercial Sector by Census Division and State, Year-to-Date through August 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	90	31	0	38	18
Connecticut	0	0	0	0	0	0	0	39
Maine	0	0	0	0	39	0	38	31
Massachusetts	0	0	0	90	79	0	0	22
New Hampshire	0	0	0	0	63	0	0	103
Rhode Island	0	0	0	0	218	0	0	94
Vermont	0	0	0	0	263	0	0	265
Middle Atlantic	0	0	0	19	12	0	14	14
New Jersey	0	0	0	20	11	0	0	18
New York	0	0	0	208	26	0	24	20
Pennsylvania	0	0	0	85	48	0	0	48
East North Central	0	0	0	113	15	0	13	15
Illinois	0	0	0	0	311	0	0	26
Indiana	0	0	0	0	88	0	82	25
Michigan	0	0	0	0	12	0	12	22
Ohio	0	0	0	113	139	0	0	62
Wisconsin	0	0	0	0	67	0	0	76
West North Central	0	0	0	227	16	0	54	28
Iowa	0	0	0	0	74	0	0	58
Minnesota	0	0	0	0	28	0	54	54
Missouri	0	0	0	227	7	0	0	3
Nebraska	0	0	0	0	100	0	0	123
North Dakota	0	0	0	0	0	0	0	453
South Dakota	0	0	0	0	0	0	0	945
South Atlantic	0	0	0	22	12	0	12	16
Delaware	0	0	0	144	159	0	0	159
District of Columbia	0	0	0	0	0	0	0	97
Florida	0	0	0	155	73	0	0	75
Georgia	0	0	0	112	112	0	0	80
Maryland	0	0	0	96	74	0	0	34
North Carolina	0	0	0	24	22	0	0	17
South Carolina	0	0	0	0	0	0	0	162
Virginia	0	0	0	0	13	0	12	14
East South Central	0	0	0	114	114	0	0	62
Mississippi	0	0	0	0	0	0	0	179
Tennessee	0	0	0	114	114	0	0	66
West South Central	0	0	0	132	60	0	0	20
Arkansas	0	0	0	0	183	0	0	226
Louisiana	0	0	0	0	0	0	0	64
Oklahoma	0	0	0	0	0	0	0	116
Texas	0	0	0	132	62	0	0	20
Mountain	0	0	0	25	28	0	0	17
Arizona	0	0	0	46	46	0	0	26
Colorado	0	0	0	52	72	0	0	133
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	34	34	0	0	27
New Mexico	0	0	0	0	359	0	0	34
Utah	0	0	0	0	0	0	0	39
Pacific Contiguous	0	0	0	23	11	0	0	9
California	0	0	0	23	11	0	0	7
Oregon	0	0	0	0	83	0	0	109
Washington	0	0	0	0	95	0	0	153
Pacific Noncontiguous	0	0	0	0	8	0	0	9
Alaska	0	0	0	0	54	0	0	38
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	0	0	0	11	6	0	7	6

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

**Table A.5.A. Relative Standard Error for Net Generation by Fuel Type:
Industrial Sector by Census Division and State, August 2016**

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	86	447	0	21	0	0	54
Connecticut	0	1,118	0	37	0	0	0
Maine	0	493	0	27	0	0	54
Massachusetts	159	1,077	0	62	0	0	455
New Hampshire	0	565	0	145	0	0	0
Middle Atlantic	18	96	71	18	27	0	153
New Jersey	0	1,888	180	40	88	0	0
New York	0	12	0	33	0	0	153
Pennsylvania	34	91	76	22	22	0	0
East North Central	9	44	79	20	17	0	134
Illinois	9	3,527	0	36	66	0	0
Indiana	197	19	0	27	15	0	0
Michigan	93	156	80	47	0	0	342
Ohio	44	343	589	75	63	0	0
Wisconsin	21	82	0	67	0	0	146
West North Central	11	127	118	42	200	0	173
Iowa	11	550	118	97	0	0	0
Kansas	0	0	0	50	0	0	0
Minnesota	31	127	0	104	0	0	173
Missouri	131	0	0	344	0	0	0
Nebraska	42	0	0	230	0	0	0
North Dakota	89	517	0	224	200	0	0
South Atlantic	40	87	0	7	0	0	20
Delaware	0	0	0	0	0	0	0
Florida	118	160	0	15	0	0	0
Georgia	81	133	0	15	0	0	276
Maryland	0	101	0	65	0	0	0
North Carolina	137	427	0	44	0	0	829
South Carolina	99	0	0	53	0	0	0
Virginia	54	381	0	18	0	0	343
West Virginia	0	0	0	0	0	0	13
East South Central	21	153	0	11	82	0	0
Alabama	116	178	0	14	115	0	0
Kentucky	0	0	0	52	0	0	0
Mississippi	0	0	0	29	0	0	0
Tennessee	0	204	0	10	0	0	0
West South Central	74	665	58	2	5	0	0
Arkansas	0	0	0	22	0	0	0
Louisiana	0	0	70	2	6	0	0
Oklahoma	85	3,257	0	62	0	0	0
Texas	0	678	60	2	10	0	0
Mountain	10	276	0	26	73	0	0
Colorado	0	945	0	82	0	0	0
Idaho	98	0	0	112	0	0	0
Montana	294	0	0	0	0	0	0
Nevada	0	0	0	23	0	0	0
New Mexico	0	435	0	67	0	0	0
Utah	0	2,335	0	16	0	0	0
Wyoming	39	74	0	51	73	0	0
Pacific Contiguous	0	53	0	3	7	0	0
California	0	68	0	3	7	0	0
Oregon	0	0	0	45	0	0	0
Washington	0	65	0	0	0	0	0
Pacific Noncontiguous	218	110	0	141	87	0	253
Alaska	0	22	0	141	0	0	0
Hawaii	218	126	0	0	87	0	253
U.S. Total	8	68	35	2	8	0	29

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	86	447	0	21	0	0	54
Connecticut	0	1,118	0	37	0	0	0
Maine	0	493	0	27	0	0	54
Massachusetts	159	1,077	0	62	0	0	455
New Hampshire	0	565	0	145	0	0	0
Middle Atlantic	18	96	71	18	27	0	153
New Jersey	0	1,888	180	40	88	0	0
New York	0	12	0	33	0	0	153
Pennsylvania	34	91	76	22	22	0	0
East North Central	9	44	79	20	17	0	134
Illinois	9	3,527	0	36	66	0	0
Indiana	197	19	0	27	15	0	0
Michigan	93	156	80	47	0	0	342
Ohio	44	343	589	75	63	0	0
Wisconsin	21	82	0	67	0	0	146
West North Central	11	127	118	42	200	0	173
Iowa	11	550	118	97	0	0	0
Kansas	0	0	0	50	0	0	0
Minnesota	31	127	0	104	0	0	173
Missouri	131	0	0	344	0	0	0
Nebraska	42	0	0	230	0	0	0
North Dakota	89	517	0	224	200	0	0
South Atlantic	40	87	0	7	0	0	20
Delaware	0	0	0	0	0	0	0
Florida	118	160	0	15	0	0	0
Georgia	81	133	0	15	0	0	276
Maryland	0	101	0	65	0	0	0
North Carolina	137	427	0	44	0	0	829
South Carolina	99	0	0	53	0	0	0
Virginia	54	381	0	18	0	0	343
West Virginia	0	0	0	0	0	0	13
East South Central	21	153	0	11	82	0	0
Alabama	116	178	0	14	115	0	0
Kentucky	0	0	0	52	0	0	0
Mississippi	0	0	0	29	0	0	0
Tennessee	0	204	0	10	0	0	0
West South Central	74	665	58	2	5	0	0
Arkansas	0	0	0	22	0	0	0
Louisiana	0	0	70	2	6	0	0
Oklahoma	85	3,257	0	62	0	0	0
Texas	0	678	60	2	10	0	0
Mountain	10	276	0	26	73	0	0
Colorado	0	945	0	82	0	0	0
Idaho	98	0	0	112	0	0	0
Montana	294	0	0	0	0	0	0
Nevada	0	0	0	23	0	0	0
New Mexico	0	435	0	67	0	0	0
Utah	0	2,335	0	16	0	0	0
Wyoming	39	74	0	51	73	0	0
Pacific Contiguous	0	53	0	3	7	0	0
California	0	68	0	3	7	0	0
Oregon	0	0	0	45	0	0	0
Washington	0	65	0	0	0	0	0
Pacific Noncontiguous	218	110	0	141	87	0	253
Alaska	0	22	0	141	0	0	0
Hawaii	218	126	0	0	87	0	253
U.S. Total	8	68	35	2	8	0	29

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

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

Industrial Sector by Census Division and State, Year-to-Date through August 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	28	12
Connecticut	0	0	0	0	0	0	0	38
Maine	0	0	0	0	2	0	28	11
Massachusetts	0	0	0	0	341	0	0	57
New Hampshire	0	0	0	0	0	0	0	144
Middle Atlantic	0	0	0	62	11	0	0	11
New Jersey	0	0	0	157	157	0	0	37
New York	0	0	0	0	6	0	0	15
Pennsylvania	0	0	0	67	13	0	0	13
East North Central	0	0	0	153	9	0	8	7
Illinois	0	0	0	0	0	0	22	11
Indiana	0	0	0	0	49	0	0	11
Michigan	0	0	0	0	14	0	0	22
Ohio	0	0	0	153	11	0	0	27
Wisconsin	0	0	0	0	16	0	39	20
West North Central	0	0	0	0	9	0	43	10
Iowa	0	0	0	0	40	0	0	12
Kansas	0	0	0	0	0	0	132	49
Minnesota	0	0	0	0	9	0	46	18
Missouri	0	0	0	0	226	0	0	117
Nebraska	0	0	0	0	0	0	0	41
North Dakota	0	0	0	0	842	0	0	84
South Atlantic	0	0	0	0	3	0	4	3
Delaware	0	0	0	0	97	0	0	1
Florida	0	0	0	0	8	0	4	7
Georgia	0	0	0	0	4	0	0	6
Maryland	0	0	0	0	0	0	0	25
North Carolina	0	0	0	0	8	0	0	16
South Carolina	0	0	0	0	1	0	0	5
Virginia	0	0	0	0	6	0	0	11
West Virginia	0	0	0	0	0	0	0	6
East South Central	0	0	0	0	4	0	29	5
Alabama	0	0	0	0	7	0	0	8
Kentucky	0	0	0	0	1	0	0	21
Mississippi	0	0	0	0	4	0	131	7
Tennessee	0	0	0	0	12	0	0	5
West South Central	0	0	0	0	5	0	7	1
Arkansas	0	0	0	0	4	0	0	5
Louisiana	0	0	0	0	7	0	8	2
Oklahoma	0	0	0	0	27	0	62	40
Texas	0	0	0	0	11	0	9	2
Mountain	0	0	0	139	7	0	11	12
Colorado	0	0	0	0	335	0	58	49
Idaho	0	0	0	0	4	0	0	19
Montana	0	0	0	0	130	0	0	143
Nevada	0	0	0	139	139	0	0	23
New Mexico	0	0	0	0	0	0	0	67
Utah	0	0	0	0	0	0	0	4
Wyoming	0	0	0	0	0	0	0	32
Pacific Contiguous	0	0	0	88	8	0	12	3
California	0	0	0	88	19	0	12	3
Oregon	0	0	0	0	18	0	0	20
Washington	0	0	0	0	8	0	0	8
Pacific Noncontiguous	0	0	0	0	40	0	0	61
Alaska	0	0	0	0	168	0	0	93
Hawaii	0	0	0	0	40	0	0	73
U.S. Total	0	0	0	48	2	0	4	1

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	1	1	4	0	1
Connecticut	0	1	5	0	1
Maine	1	1	2	0	1
Massachusetts	1	1	8	0	1
New Hampshire	1	1	5	0	1
Rhode Island	0	0	0	0	0
Vermont	4	4	8	0	3
Middle Atlantic	0	0	1	0	0
New Jersey	0	0	3	0	0
New York	0	0	3	0	0
Pennsylvania	0	0	1	0	0
East North Central	0	1	1	0	0
Illinois	1	1	2	0	1
Indiana	1	2	2	0	1
Michigan	1	2	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	3	4	0	2
West North Central	1	2	3	0	1
Iowa	2	7	5	0	3
Kansas	2	1	5	0	1
Minnesota	2	4	6	0	2
Missouri	1	1	7	0	1
Nebraska	2	7	6	0	3
North Dakota	3	5	9	0	4
South Dakota	4	9	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	1	0	4	0	0
Georgia	1	1	3	0	1
Maryland	0	0	4	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	0	3	0	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	1	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	0	2	4	0	1
Colorado	2	5	6	0	2
Idaho	2	5	2	0	2
Montana	4	8	8	0	4
Nevada	0	3	1	0	1
New Mexico	3	8	8	0	4
Utah	2	5	3	0	2
Wyoming	4	8	4	0	3
Pacific Contiguous	0	1	2	0	1
California	0	1	2	0	1
Oregon	2	4	8	0	3
Washington	2	4	6	0	2
Pacific Noncontiguous	2	5	3	0	2
Alaska	4	11	13	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 August 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	1	3	0	0
Connecticut	0	1	4	0	1
Maine	1	7	2	0	2
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	0	1	2	0	1
Michigan	0	1	2	0	1
Ohio	0	1	1	0	1
Wisconsin	0	2	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	0	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	0	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	0
Oregon	1	3	6	0	2
Washington	0	3	4	0	2
Pacific Noncontiguous	6	4	2	0	2
Alaska	15	8	8	0	6
Hawaii	0	0	0	0	0
U.S. Total	0	0	0	0	0

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

Table A.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, August 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	2	0	1
Massachusetts	1	1	5	0	1
New Hampshire	1	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	4	3	7	0	2
Middle Atlantic	0	0	1	0	0
New Jersey	0	0	2	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	0	1	2	0	0
Illinois	1	1	3	0	1
Indiana	1	2	2	0	1
Michigan	1	1	3	0	1
Ohio	1	1	3	0	1
Wisconsin	1	3	5	0	2
West North Central	1	1	3	0	1
Iowa	2	5	5	0	2
Kansas	3	2	5	0	2
Minnesota	2	4	6	0	2
Missouri	1	1	5	0	1
Nebraska	2	6	7	0	3
North Dakota	3	4	8	0	3
South Dakota	4	7	11	0	4
South Atlantic	1	1	1	0	1
Delaware	2	2	11	0	2
District of Columbia	0	1	0	0	1
Florida	1	1	4	0	1
Georgia	2	1	3	0	1
Maryland	0	0	3	0	0
North Carolina	2	1	3	0	1
South Carolina	3	2	3	0	1
Virginia	2	1	3	0	1
West Virginia	1	1	0	0	0
East South Central	1	1	2	0	1
Alabama	3	2	2	0	1
Kentucky	2	2	5	0	2
Mississippi	4	3	5	0	3
Tennessee	1	2	5	0	1
West South Central	1	1	2	0	1
Arkansas	3	3	3	0	2
Louisiana	3	2	1	0	1
Oklahoma	3	2	5	0	2
Texas	1	1	2	0	1
Mountain	1	2	2	0	1
Arizona	1	2	4	0	1
Colorado	2	5	8	0	3
Idaho	2	4	2	0	1
Montana	4	6	12	0	4
Nevada	0	4	1	0	1
New Mexico	3	8	13	0	4
Utah	2	6	4	0	2
Wyoming	4	7	4	0	3
Pacific Contiguous	0	1	2	0	0
California	0	1	2	0	0
Oregon	2	3	8	0	2
Washington	2	3	8	0	2
Pacific Noncontiguous	1	3	2	0	1
Alaska	5	8	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 August 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	0	2	1	0
Connecticut	0	1	4	3	0
Maine	1	2	2	0	1
Massachusetts	0	1	3	0	1
New Hampshire	0	1	3	0	0
Rhode Island	0	0	0	0	0
Vermont	1	3	5	0	1
Middle Atlantic	0	0	1	0	0
New Jersey	0	0	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	1	0	0
East North Central	0	0	1	0	0
Illinois	0	1	2	0	0
Indiana	1	1	1	0	1
Michigan	0	1	2	0	1
Ohio	0	1	2	0	0
Wisconsin	1	2	4	0	1
West North Central	0	1	2	0	1
Iowa	1	4	4	0	2
Kansas	1	1	3	0	1
Minnesota	1	3	5	0	1
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	2	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	3	0	1
Texas	1	1	1	0	0
Mountain	0	1	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	1	0	0
California	0	1	1	0	0
Oregon	1	2	6	0	1
Washington	1	2	6	0	1
Pacific Noncontiguous	7	2	2	0	3
Alaska	20	6	8	0	8
Hawaii	0	0	0	0	0
U.S. Total	0	0	1	0	0

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Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, August 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	0
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	1	0	0
Wisconsin	1	1	2	0	1
West North Central	1	1	1	0	0
Iowa	1	2	2	0	1
Kansas	2	2	3	0	1
Minnesota	1	1	3	0	1
Missouri	1	0	3	0	1
Nebraska	1	2	3	0	1
North Dakota	1	1	4	0	2
South Dakota	1	2	4	0	2
South Atlantic	1	0	1	0	0
Delaware	1	1	4	0	1
District of Columbia	0	1	0	0	1
Florida	1	1	2	0	1
Georgia	2	1	2	0	1
Maryland	0	0	2	0	0
North Carolina	2	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	1
Alabama	2	1	1	0	1
Kentucky	1	1	2	0	1
Mississippi	3	2	2	0	2
Tennessee	1	1	2	0	1
West South Central	1	1	1	0	1
Arkansas	3	2	2	0	2
Louisiana	2	1	1	0	1
Oklahoma	2	2	2	0	1
Texas	1	1	1	0	1
Mountain	0	1	1	0	0
Arizona	0	1	2	0	0
Colorado	1	1	3	0	1
Idaho	1	1	1	0	1
Montana	2	2	6	0	1
Nevada	0	2	0	0	0
New Mexico	2	2	6	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

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

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	0	1	3	1	1
Connecticut	0	1	5	3	1
Maine	1	6	3	0	2
Massachusetts	0	1	6	0	1
New Hampshire	0	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	1	3	7	0	2
Middle Atlantic	0	0	1	0	0
New Jersey	0	0	2	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	0	1	1	0	0
Illinois	0	1	2	0	0
Indiana	0	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	0	1	6	0	1
Nebraska	0	6	7	0	3
North Dakota	1	4	7	0	3
South Dakota	1	8	10	0	4
South Atlantic	0	0	1	0	0
Delaware	0	2	9	0	2
District of Columbia	0	0	0	0	0
Florida	0	1	4	0	0
Georgia	1	1	3	0	1
Maryland	0	0	4	0	0
North Carolina	1	1	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	0	2	5	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	2	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	9	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	7	0	2
Washington	0	3	6	0	2
Pacific Noncontiguous	1	4	3	0	2
Alaska	5	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:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational i	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 to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	52000
2016	7	07/05/2016 5:30 PM	07/06/2016 4:00 PM	22 Hours, 30 Minutes	Northern States Power Co	MRO	Minnesota, Wisconsin	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	250000
2016	7	07/07/2016 4:20 AM	07/07/2016 8:00 AM	3 Hours, 40 Minutes	Kansas City Power & Light Co	SERC	Kansas: Johnson County, Missouri: Jackson County, Platte County, Cass County, Buchanan County, Atchison County, Andrew County, Clay County, Nodaway County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	58500
2016	7	07/08/2016 6:00 PM		. Hours, . Minutes	American Electric Power - (RFC Reliability Region) (8400 Smiths Mill Road, New Albany Ohio 43054)	RFC	West Virginia: Virginia	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62961
2016	7	07/08/2016 7:00 PM	07/09/2016 12:00 AM	5 Hours, 0 Minutes	Detroit Edison Co	RFC	Michigan: Wayne County, Oakland County, Macomb County, St. Clair County, Lapeer County, Tuscola County, Sanilac County, Huron County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	160895
2016	7	07/08/2016 8:50 PM	07/09/2016 7:25 PM	22 Hours, 35 Minutes	Duke Energy Carolinas	SERC	North Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	600	203345
2016	7	07/09/2016 5:45 PM	07/11/2016 2:00 PM	44 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas: Dallas County	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62000
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 to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	96966
2016	7	07/14/2016 4:30 PM	07/16/2016 12:00 AM	31 Hours, 30 Minutes	Entergy Services, Inc.	SPP, SERC,	Arkansas: Louisiana: Mississippi: Texas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	170244

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	07/14/2016 5:30 PM	07/16/2016 8:00 PM	50 Hours, 30 Minutes	Oklahoma Gas & Electric Co	SPP	Oklahoma: Arkansas	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	7300
2016	7	07/19/2016 3:45 PM	07/19/2016 7:25 PM	3 Hours, 40 Minutes	Pacificorp	WECC	Idaho	Islanding, Uncontrolled Loss 300+ MW-System Operations	485	Unknown
2016	7	07/19/2016 3:45 PM	07/19/2016 7:29 PM	3 Hours, 44 Minutes	Bonneville Power Administration	WECC	Idaho	Islanding, Uncontrolled Loss 300+ MW-System Operations	290	Unknown
2016	7	07/21/2016 7:21 PM	07/22/2016 12:09 AM	4 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Load Shed 100+ MW, Voltage Reduction-System Operations	200	266000
2016	7	07/22/2016 11:50 PM	07/23/2016 9:10 AM	9 Hours, 20 Minutes	ISO New England	NPCC	Massachusetts: Connecticut: Rhode Island: New Hampshire: Vermont: Maine	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	57058
2016	7	07/23/2016 3:15 PM	07/23/2016 7:53 PM	4 Hours, 38 Minutes	CAmbria Cogen Company	RFC	Pennsylvania: Cambria County	Voltage Reduction-System Operations	87	Unknown
2016	7	07/23/2016 7:30 PM	07/24/2016 7:30 AM	12 Hours, 0 Minutes	ISO New England	NPCC	Connecticut: Massachusetts: New Hampshire: Vermont: Rhode Island	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	101073
2016	7	07/25/2016 6:51 PM	07/26/2016 2:19 AM	7 Hours, 28 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	0	0
2016	7	07/26/2016 6:51 PM	07/27/2016 1:45 AM	6 Hours, 54 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	25	37100
2016	7	07/27/2016 6:50 PM	07/28/2016 1:38 AM	6 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	80	106300
2016	7	07/28/2016 6:51 PM	07/29/2016 2:02 AM	7 Hours, 11 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	22	21600
2016	7	07/29/2016 7:09 PM	07/29/2016 7:57 PM	0 Hours, 48 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico	Voltage Reduction-System Operations	0	0
2016	8	08/07/2016 6:39 PM	08/07/2016 8:27 PM	1 Hours, 48 Minutes	Peak Reliability	WECC	New Mexico: Bernalillo County;	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a sing	Unknown	Unknown
2016	8	08/10/2016 6:00 AM	ongoing	ongoing	California Department of Water Resources	WECC	California: Butte County;	Fuel supply emergencies that could impact electric power system adequacy or reliability-Fuel Supply	0	0
2016	8	08/11/2016 4:30 PM	08/11/2016 7:15 PM	2 Hours, 45 Minutes	FirstEnergy Corp	RFC	Ohio:	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	62140
2016	8	08/13/2016 11:42 AM	08/13/2016 2:07 PM	2 Hours, 25 Minutes	Broad River Energy, LLC	SERC	South Carolina:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a sing	506	0
2016	8	08/23/2016 5:00 PM	08/24/2016 12:05 AM	7 Hours, 5 Minutes	CenterPoint Energy	TRE	Texas: Harris County;	Loss of electric service to more than 50,000 customers for 1 hour or more-Severe Weather	Unknown	72200
2016	8	08/24/2016 6:13 PM	08/24/2016 7:14 PM	1 Hours, 1 Minutes	Puerto Rico Electric Power Authority	PR	Puerto Rico:	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a sing	600	400000
2016	8	08/24/2016 7:18 PM	08/24/2016 7:47 PM	0 Hours, 29 Minutes	Peak Reliability	WECC	Washington: King County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational i	9232	Unknown
2016	8	08/31/2016 9:45 AM	08/31/2016 9:55 AM	0 Hours, 10 Minutes	Peak Reliability	WECC	Colorado:	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational i	0	0
2016	8	08/31/2016 2:52 PM	ongoing	ongoing	Peak Reliability	WECC	Washington: Clark County;	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational i	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	Hennepin 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	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 or 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 or 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 approximately 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 approximately 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 sample^{21,24}. 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:

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

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 estimates¹.

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
Petroleum Products	WC	Waste/Other Coal (including anthracite culm, bituminous gob, fine coal, lignite waste, waste coal)
	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)
Natural Gas and Other Gases	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)
	BFG	Blast Furnace Gas
Nuclear	NG	Natural Gas
	OG	Other Gas
Hydroelectric Conventional	NUC	Nuclear (including Uranium, Plutonium, and Thorium)
	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
Other Renewable Energy Sources	SLW	Sludge Waste
	SUN	Solar (including solar thermal)
	WND	Wind
Other Energy Sources	GEO	Geothermal
	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 performed 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
<u>Prime Movers:</u>
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
<u>Environmental Equipment:</u>
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 waste²: 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 kilowatt-hour.

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

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

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

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

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

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

Issues within historical data series:

Receipts and cost and quality of fossil fuels

Values for receipts of natural gas for 2001 forward do not include blast furnace gas or other gas.

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

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

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

Generation and consumption

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

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

Average Capacity Factors

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

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

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

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

NERC classification

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

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

The new NERC Regional Council names are as follows:

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

Business classification

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

Agriculture, Forestry, and Fishing

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

Mining

- 211 Oil and gas extraction
- 2121 Coal mining
- 2122 Metal mining

2123 Mining and quarrying of nonmetallic minerals except fuels

Construction

23

Manufacturing

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

Transportation and Public Utilities

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

Wholesale Trade

421 to 422

Retail Trade

441 to 454

Finance, Insurance, and Real Estate

521 to 533

Services

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

Public Administration

92

Multiple Survey Programs- Small Scale PV Solar Estimation of Generation

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

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

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

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

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

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

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

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

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

e_i is the error term

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

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

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

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

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

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

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

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

Appendix 1- MSAs

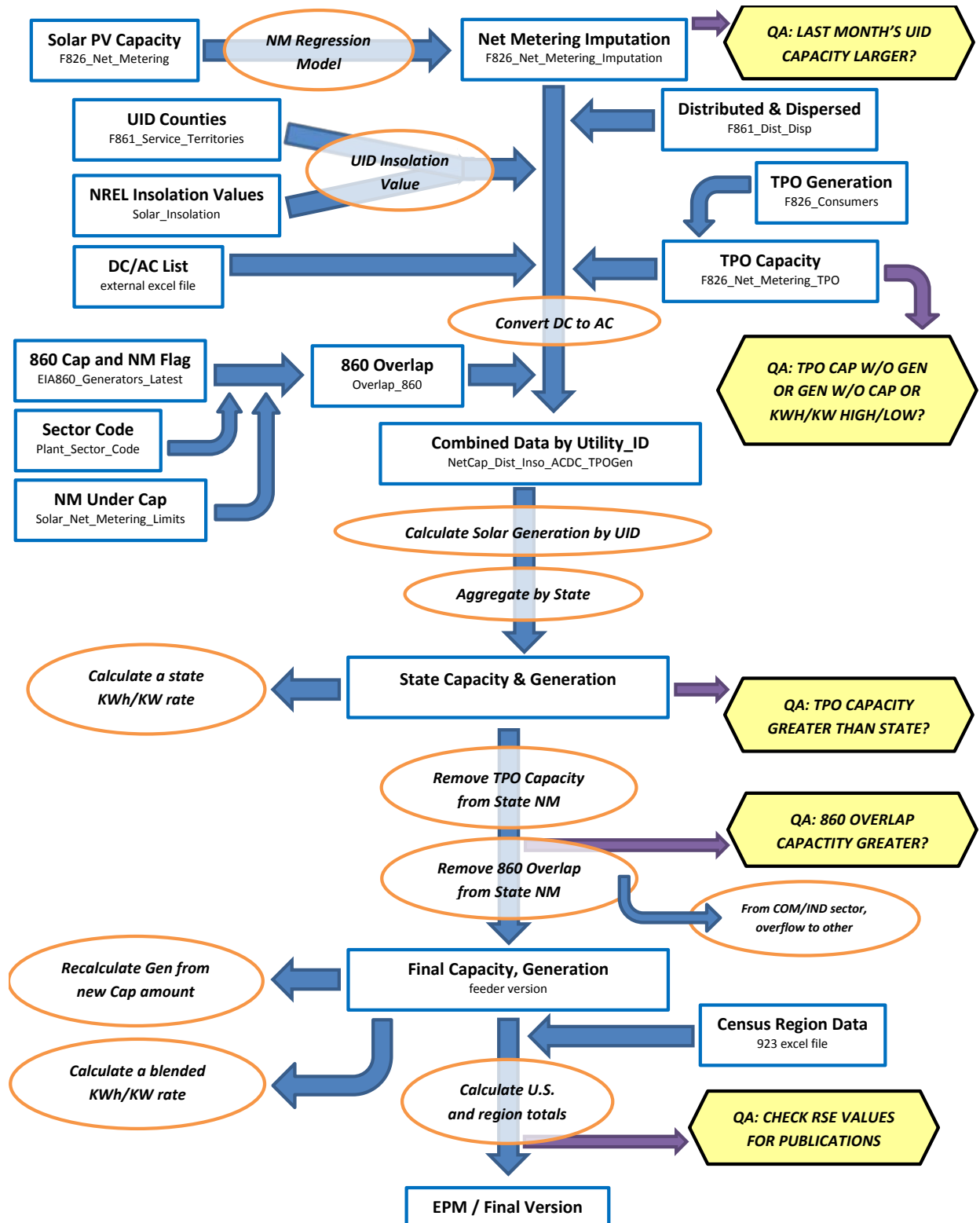
TMY3 (1991-2005) Weather Stations by MSA

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

37	USA VA Norfolk Int'l Airport	Virginia Beach-Norfolk-Newport News, VA-NC MSA
38	USA RI Providence T F Green State	Providence-Warwick, RI-MA MSA
39	USA WI Milwaukee Mitchell Intl Airport	Milwaukee-Waukesha-West Allis, WI MSA
40	USA FL Jacksonville Craig	Jacksonville, FL MSA
41	USA TN Memphis Int'l Airport	Memphis, TN-MS-AR MSA
42	USA OK Oklahoma City Will Rogers	Oklahoma City, OK MSA
43	USA KY Louisville Bowman Field	Louisville/Jefferson County, KY-IN MSA
44	USA VA Richmond Int'l Airport	Richmond, VA MSA
45	USA LA New Orleans Alvin Callender	New Orleans-Metairie, LA MSA
46	USA CT Hartford Bradley Intl Airport	Hartford-West Hartford-East Hartford, CT MSA
47	USA NC Raleigh Durham Int'l	Raleigh, NC MSA
48	USA UT Salt Lake City Int'l Airport	Salt Lake City, UT MSA
49	USA AL Birmingham Municipal Airport	Birmingham-Hoover, AL MSA
50	USA NY Buffalo Niagara Intl Airport	Buffalo-Cheektowaga-Niagara Falls, NY MSA
51	USA NY Rochester Greater Rochester	Rochester, NY MSA
52	USA MI Grand Rapids Kent County Int'l Airport	Grand Rapids-Wyoming, MI MSA
53	USA AZ Tucson Int'l Airport	Tucson, AZ MSA
54	USA HI Honolulu Intl Airport	Urban Honolulu, HI MSA
55	USA OK Tulsa Int'l Airport	Tulsa, OK MSA
56	USA CA Fresno Yosemite Intl Airport	Fresno, CA MSA
57	USA CT Bridgeport Sikorsky Memorial	Bridgeport-Stamford-Norwalk, CT MSA
58	USA MA Worcester 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 Worcester Regional Airport	Springfield, MA MSA
87	USA FL Lakeland Linder Regional Airport	Lakeland-Winter Haven, FL MSA
88	USA UT Ogden Hinkley Airport	Ogden-Clearfield, UT MSA
89	USA OH Toledo Express Airport	Toledo, OH MSA
90	USA FL Daytona Beach Intl Airport	Deltona-Daytona Beach-Ormond Beach, FL MSA
91	USA IA Des Moines Intl Airport	Des Moines-West Des Moines, IA MSA
92	USA GA Augusta Bush Field	Augusta-Richmond County, GA-SC MSA
93	USA MS Jackson Int'l Airport	Jackson, MS MSA
94	USA UT Provo Muni	Provo-Orem, UT MSA
95	USA PA Wilkes-Barre Scranton Intl Airport	Scranton-Wilkes-Barre-Hazleton, PA MSA
96	USA PA Harrisburg Capital City Airport	Harrisburg-Carlisle, PA MSA
97	USA OH Youngstown Regional Airport	Youngstown-Warren-Boardman, OH-PA MSA
98	USA FL Melbourne Regional Airport	Palm Bay-Melbourne-Titusville, FL MSA
99	USA TN Chattanooga Lovell Field Airport	Chattanooga, TN-GA MSA
100	USA WA Spokane Int'l Airport	Spokane-Spokane Valley, WA MSA

Appendix 2 – Flow diagram of data sources and analysis



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

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

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

Table C.1 Average Heat Content of Fossil-Fuel Receipts, August 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	23.10	6.26	--	1.03
Connecticut	--	5.81	--	1.02
Maine	24.91	6.19	--	1.02
Massachusetts	21.18	6.29	--	1.03
New Hampshire	25.90	5.80	--	1.03
Rhode Island	--	--	--	1.03
Vermont	--	--	--	--
Middle Atlantic	23.99	5.84	--	1.03
New Jersey	25.83	5.71	--	1.04
New York	26.16	5.87	--	1.03
Pennsylvania	23.85	5.80	--	1.04
East North Central	20.40	5.79	27.39	1.04
Illinois	17.63	5.79	--	1.03
Indiana	22.38	5.76	--	1.05
Michigan	18.83	5.81	27.30	1.04
Ohio	24.56	5.78	27.51	1.06
Wisconsin	17.87	5.84	27.14	1.02
West North Central	16.69	5.81	--	1.04
Iowa	17.62	5.79	--	1.06
Kansas	17.21	--	--	1.04
Minnesota	17.78	5.78	--	1.04
Missouri	17.63	5.79	--	1.03
Nebraska	16.92	5.75	--	1.07
North Dakota	13.40	5.95	--	1.00
South Dakota	16.60	--	--	1.06
South Atlantic	23.52	6.15	27.22	1.03
Delaware	26.09	5.67	--	1.04
District of Columbia	--	--	--	--
Florida	23.37	6.31	27.24	1.03
Georgia	20.79	5.80	26.96	1.03
Maryland	24.51	5.82	--	1.04
North Carolina	24.92	5.78	--	1.03
South Carolina	24.92	5.77	--	1.03
Virginia	21.93	6.24	--	1.06
West Virginia	24.49	5.73	--	1.08
East South Central	20.94	5.78	--	1.03
Alabama	19.88	5.50	--	1.03
Kentucky	22.22	5.82	--	1.05
Mississippi	14.21	5.84	--	1.03
Tennessee	21.86	5.77	--	1.01
West South Central	15.94	5.83	28.37	1.03
Arkansas	17.52	5.87	--	1.03
Louisiana	15.92	--	28.37	1.03
Oklahoma	17.26	5.80	--	1.05
Texas	15.57	5.83	--	1.03
Mountain	18.87	5.78	--	1.04
Arizona	19.64	5.77	--	1.03
Colorado	18.93	--	--	1.09
Idaho	--	--	--	1.02
Montana	17.17	5.92	--	--
Nevada	20.10	5.76	--	1.05
New Mexico	18.86	5.66	--	1.06
Utah	21.52	5.88	--	1.04
Wyoming	17.55	5.82	--	1.03
Pacific Contiguous	17.79	6.00	--	1.05
California	22.91	--	--	1.04
Oregon	17.36	--	--	1.05
Washington	17.14	6.00	--	1.09
Pacific Noncontiguous	18.34	6.19	--	1.01
Alaska	14.00	5.90	--	1.01
Hawaii	19.48	6.19	--	--
U.S. Total	19.35	6.11	27.72	1.04

'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

Item	Mean Absolute Value of Percent Change Total (All Sectors)		
	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 changes.

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

Item	2012			2013			2014		
	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 kilowatt-hour 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 earth's 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 through 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.

Watt-hour (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.