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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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		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	72,224	88,653	-18.5%	54,119	67,605	17,348	20,218	30	33	726	798	0	0
Petroleum Liquids	Utility Scale Facilities	798	912	-12.5%	579	697	187	171	NM	8	25	36	0	0
Petroleum Coke	Utility Scale Facilities	1,049	805	30.2%	858	565	97	140	0	1	93	99	0	0
Natural Gas	Utility Scale Facilities	100,032	92,979	7.6%	47,080	42,880	45,123	43,198	621	539	7,207	6,363	0	0
Other Gas	Utility Scale Facilities	1,146	931	23.1%	8	20	322	243	0	0	816	668	0	0
Nuclear	Utility Scale Facilities	62,365	59,757	4.4%	34,036	31,053	28,329	28,705	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	25,567	22,558	13.3%	23,604	20,179	1,835	2,240	NM	NM	123	136	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	29,508	26,770	10.2%	3,956	3,323	23,159	20,861	267	281	2,126	2,305	0	0
... Wind	Utility Scale Facilities	20,555	17,881	15.0%	3,389	2,815	17,146	15,050	12	11	8	5	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	2,981	2,567	16.1%	193	163	2,737	2,347	50	54	NM	3	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	2,898	3,244	-10.7%	182	153	714	892	5	4	1,998	2,195	0	0
... Other Biomass	Utility Scale Facilities	1,769	1,739	1.7%	129	118	1,322	1,308	200	212	118	102	0	0
... Geothermal	Utility Scale Facilities	1,305	1,338	-2.5%	64	75	1,240	1,263	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-452	-214	110.8%	-367	-153	-84	-62	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,081	1,067	1.4%	42	35	553	541	97	102	389	389	0	0
All Energy Sources	Utility Scale Facilities	293,317	294,218	-0.3%	163,916	166,204	116,868	116,255	1,028	968	11,506	10,793	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	1,447	1,094	32.3%	0	0	0	0	523	462	136	107	788	524
Estimated Total Solar Photovoltaic	All Facilities	4,155	3,287	26.4%	181	153	2,475	1,983	573	516	NM	110	788	524
Estimated Total Solar	All Facilities	4,428	3,661	21.0%	193	163	2,737	2,347	573	516	NM	110	788	524
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	39,064	48,549	-19.5%	28,973	36,829	9,825	11,431	10	11	256	278	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,335	1,550	-13.9%	1,042	1,248	252	229	10	17	32	57	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	396	301	31.8%	326	213	43	59	0	0	27	29	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	757,330	694,463	9.1%	368,386	328,898	333,568	314,913	5,277	5,271	50,098	45,382	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,112	1,374	-19.0%	73	68	171	137	41	53	828	1,116	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	189	207	-8.8%	1	0	82	83	11	7	95	116	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	71	120	-40.6%	0	1	6	9	0	1	64	108	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	76,801	73,667	4.3%	637	589	23,407	24,070	4,994	3,935	47,763	45,072	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	40,176	49,922	-19.5%	29,045	36,897	9,996	11,567	51	64	1,084	1,394	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,524	1,757	-13.3%	1,043	1,248	333	311	21	24	127	173	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	467	420	11.2%	326	213	50	68	0	2	91	137	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	834,131	768,130	8.6%	369,023	329,487	356,975	338,983	10,271	9,206	97,861	90,454	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	197,809	169,264	16.9%	154,589	131,680	41,573	36,001	127	206	1,519	1,377	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	32,933	30,918	6.5%	20,844	20,637	10,516	8,358	250	569	1,323	1,354	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,316	1,103	19.4%	W	776	W	136	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for April									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	April 2016	April 2015	Percentage Change	April 2016	April 2015	Percentage Change	April 2016	April 2015	Percentage Change
Residential	88,035	89,926	-2.1%	10,942	11,366	-3.7%	12.43	12.64	-1.7%
Commercial	101,938	103,973	-2.0%	10,281	10,735	-4.2%	10.09	10.32	-2.2%
Industrial	75,805	78,056	-2.9%	4,845	5,153	-6.0%	6.39	6.60	-3.2%
Transportation	598	623	-4.0%	56	61	-8.1%	9.42	9.84	-4.3%
All Sectors	266,376	272,578	-2.3%	26,126	27,315	-4.4%	9.81	10.02	-2.1%

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

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

Net Generation and Consumption of Fuels for January through April														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	351,187	456,841	-23.1%	267,843	337,360	79,821	115,534	161	196	3,362	3,751	0	0
Petroleum Liquids	Utility Scale Facilities	4,215	9,141	-53.9%	2,908	4,625	1,140	4,156	36	126	130	234	0	0
Petroleum Coke	Utility Scale Facilities	3,891	3,694	5.3%	3,148	2,759	376	543	4	4	364	389	0	0
Natural Gas	Utility Scale Facilities	411,857	385,277	6.9%	196,387	177,585	183,660	178,086	2,480	2,306	29,331	27,299	0	0
Other Gas	Utility Scale Facilities	4,777	4,362	9.5%	27	94	1,379	1,218	0	0	3,371	3,051	0	0
Nuclear	Utility Scale Facilities	266,688	262,036	1.8%	140,747	137,235	125,940	124,801	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	102,517	94,843	8.1%	93,643	87,245	8,339	7,063	NM	NM	513	522	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	116,552	97,585	19.4%	14,937	12,784	91,367	74,239	1,070	1,084	9,177	9,478	0	0
... Wind	Utility Scale Facilities	81,032	63,433	27.7%	12,419	10,572	68,535	52,802	48	41	30	20	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	9,672	7,659	26.3%	633	485	8,853	7,010	177	155	9	9	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	13,239	13,904	-4.8%	987	923	3,561	3,955	22	21	8,670	9,005	0	0
... Other Biomass	Utility Scale Facilities	7,097	6,973	1.8%	553	461	5,252	5,201	823	867	469	445	0	0
... Geothermal	Utility Scale Facilities	5,512	5,615	-1.8%	346	344	5,166	5,272	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-1,541	-1,633	-5.6%	-1,221	-1,318	-320	-315	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	4,244	4,025	5.4%	195	112	2,171	2,138	362	372	1,515	1,403	0	0
All Energy Sources	Utility Scale Facilities	1,264,386	1,316,171	-3.9%	718,614	758,482	493,875	507,462	4,135	4,102	47,763	46,126	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	4,593	3,420	34.3%	0	0	0	0	1,751	1,480	429	342	2,413	1,598
Estimated Total Solar Photovoltaic	All Facilities	13,407	10,192	31.5%	608	461	8,020	6,147	1,928	1,636	437	350	2,413	1,598
Estimated Total Solar	All Facilities	14,265	11,079	28.8%	633	485	8,853	7,010	1,928	1,636	437	350	2,413	1,598
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	191,788	245,215	-21.8%	144,627	179,973	45,928	63,840	51	64	1,182	1,337	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	7,234	15,460	-53.2%	5,263	8,273	1,748	6,593	42	260	181	333	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,442	1,397	3.2%	1,182	1,051	163	232	1	1	96	112	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	3,060,044	2,856,027	7.1%	1,489,204	1,344,010	1,342,381	1,293,933	23,157	22,672	205,302	195,412	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	5,386	6,040	-10.8%	330	330	554	625	238	274	4,264	4,810	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	829	1,328	-37.5%	13	56	332	486	54	107	430	679	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	363	543	-33.1%	1	2	36	37	6	8	320	496	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	314,208	306,897	2.4%	3,625	2,648	99,007	102,058	19,676	18,100	191,900	184,091	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	197,174	251,255	-21.5%	144,957	180,304	46,482	64,466	289	339	5,446	6,147	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	8,063	16,788	-52.0%	5,276	8,330	2,080	7,080	95	367	611	1,011	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,805	1,940	-7.0%	1,183	1,054	199	269	7	9	416	608	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	3,374,252	3,162,925	6.7%	1,492,829	1,346,658	1,441,388	1,395,991	42,833	40,772	397,202	379,504	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through April									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	Percentage Change
Residential	434,795	468,101	-7.1%	53,287	57,639	-7.6%	12.26	12.31	-0.4%
Commercial	420,912	428,214	-1.7%	42,449	44,638	-4.9%	10.09	10.42	-3.2%
Industrial	302,565	307,204	-1.5%	19,411	20,697	-6.2%	6.42	6.74	-4.7%
Transportation	2,519	2,676	-5.9%	238	277	-14.2%	9.45	10.36	-8.8%
All Sectors	1,160,791	1,206,195	-3.8%	115,385	123,251	-6.4%	9.94	10.22	-2.7%

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

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

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
Coal (1000 tons)	40,229	59,958	42.64	43.41	261	307	188,351	254,965	41.64	43.82
Petroleum Liquids (1000 barrels)	1,403	1,515	50.85	79.48	135	159	5,343	9,611	45.85	77.10
Petroleum Coke (1000 tons)	369	392	37.75	56.16	10	12	1,481	1,552	38.07	55.67
Natural Gas (1000 Mcf)	748,340	693,083	2.50	3.20	743	727	3,012,079	2,827,166	2.68	3.97

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
Coal (1000 tons)	31,090	45,081	43.44	44.01	185	217	142,546	190,650	42.66	44.17
Petroleum Liquids (1000 barrels)	1,126	1,082	51.32	80.56	89	104	3,996	5,609	45.98	74.05
Petroleum Coke (1000 tons)	300	313	31.95	55.11	7	8	1,228	1,300	32.56	53.72
Natural Gas (1000 Mcf)	356,568	318,796	2.80	3.59	395	384	1,440,640	1,289,486	2.97	4.15

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
Coal (1000 tons)	8,585	14,215	38.44	40.48	55	69	43,371	61,472	37.09	41.76
Petroleum Liquids (1000 barrels)	248	391	W	75.93	36	48	1,223	3,604	44.44	81.53
Petroleum Coke (1000 tons)	44	54	W	W	1	2	188	159	68.50	65.65
Natural Gas (1000 Mcf)	332,291	318,305	2.14	2.75	298	295	1,337,168	1,306,857	2.37	3.92

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
Coal (1000 tons)	0	13	W	W	1	2	19	58	W	W
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	567	413	W	W	3	3	2,857	1,763	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
Coal (1000 tons)	554	649	W	W	20	19	2,416	2,785	W	W
Petroleum Liquids (1000 barrels)	29	41	W	78.37	10	7	125	397	55.07	83.49
Petroleum Coke (1000 tons)	25	25	W	W	2	2	65	92	W	W
Natural Gas (1000 Mcf)	58,914	55,568	W	W	47	45	231,413	229,061	W	W

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

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

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
Coal	794,724	1,164,607	2.16	2.23	261	307	3,664,660	4,938,684	2.14	2.26
Petroleum Liquids	8,524	9,123	8.37	13.17	135	159	32,252	58,232	7.59	12.71
Petroleum Coke	10,307	11,059	1.35	1.99	10	12	41,531	43,950	1.36	1.97
Natural Gas	773,119	716,775	2.42	3.09	743	727	3,114,625	2,920,364	2.59	3.84
Fossil Fuels	1,586,675	1,901,564	2.31	2.58	910	923	6,853,068	7,961,229	2.36	2.88

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
Coal	616,378	878,588	2.19	2.26	185	217	2,792,310	3,707,233	2.18	2.27
Petroleum Liquids	6,901	6,578	8.38	13.26	89	104	24,369	34,170	7.54	12.15
Petroleum Coke	8,436	8,845	1.14	1.95	7	8	34,611	36,921	1.15	1.89
Natural Gas	368,223	329,072	2.72	3.48	395	384	1,489,499	1,330,018	2.87	4.02
Fossil Fuels	999,938	1,223,082	2.42	2.64	518	520	4,340,788	5,108,341	2.44	2.79

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
Coal	165,868	270,997	1.99	2.12	55	69	817,964	1,166,628	1.97	2.20
Petroleum Liquids	1,446	2,298	W	12.86	36	48	7,120	21,644	7.62	13.54
Petroleum Coke	1,203	1,501	W	W	1	2	5,156	4,447	2.50	2.35
Natural Gas	343,594	329,881	2.07	2.65	298	295	1,383,426	1,351,829	2.29	3.79
Fossil Fuels	512,110	604,677	W	W	340	352	2,213,667	2,544,547	W	W

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
Coal	9	298	W	W	1	2	434	1,264	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	578	420	W	W	3	3	2,927	1,789	W	W
Fossil Fuels	587	719	W	W	3	3	3,361	3,052	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
Coal	12,469	14,725	W	W	20	19	53,952	63,560	W	W
Petroleum Liquids	177	247	W	13.17	10	7	763	2,418	9.00	13.71
Petroleum Coke	669	712	W	W	2	2	1,764	2,582	W	W
Natural Gas	60,724	57,402	W	W	47	45	238,773	236,729	W	W
Fossil Fuels	74,040	73,085	W	W	49	48	295,252	305,288	W	W

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

Table 1.1. Net Generation by Energy Source: Total (All Sectors), 2006-April 2016
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals															
2006	1,990,511	44,460	19,706	816,441	14,177	787,219	289,246	508	96,018	-6,558	12,974	4,064,702	N/A	N/A	N/A
2007	2,016,456	49,505	16,234	896,590	13,453	806,425	247,510	612	104,626	-6,896	12,231	4,156,745	N/A	N/A	N/A
2008	1,985,801	31,917	14,325	882,981	11,707	806,208	254,831	864	125,237	-6,288	11,804	4,119,388	N/A	N/A	N/A
2009	1,755,904	25,972	12,964	920,979	10,632	798,855	273,445	891	143,388	-4,627	11,928	3,950,331	N/A	N/A	N/A
2010	1,847,290	23,337	13,724	987,697	11,313	806,968	260,203	1,212	165,961	-5,501	12,855	4,125,060	N/A	N/A	N/A
2011	1,733,430	16,086	14,096	1,013,689	11,566	790,204	319,355	1,818	192,163	-6,421	14,154	4,100,141	N/A	N/A	N/A
2012	1,514,043	13,403	9,787	1,225,894	11,898	769,331	276,240	4,327	214,006	-4,950	13,787	4,047,765	N/A	N/A	N/A
2013	1,581,115	13,820	13,344	1,124,836	12,853	789,016	268,565	9,036	244,472	-4,681	13,588	4,065,964	N/A	N/A	N/A
2014	1,581,710	18,276	11,955	1,126,609	12,022	797,166	259,367	17,691	261,522	-6,174	13,461	4,093,606	9,536	24,785	27,227
2015	1,356,057	17,456	10,987	1,335,068	12,963	797,178	251,168	26,473	271,885	-5,094	13,239	4,087,381	12,141	35,373	38,614
Year 2014															
January	157,097	5,913	1,158	91,061	933	73,163	21,634	751	24,742	-290	1,092	377,255	530	1,227	1,281
February	143,294	1,847	916	75,942	817	62,639	17,396	835	20,166	-445	941	324,348	564	1,316	1,398
March	136,443	2,002	1,186	78,151	866	62,397	24,257	1,317	24,534	-421	1,093	331,823	769	1,904	2,086
April	109,281	911	842	76,782	854	56,385	25,440	1,487	24,989	-378	1,039	297,631	839	2,100	2,326
May	118,786	960	1,084	89,120	944	62,947	26,544	1,750	22,073	-601	1,118	324,724	927	2,384	2,676
June	137,577	889	1,131	98,468	969	68,138	25,744	1,923	22,541	-653	1,117	357,844	934	2,512	2,858
July	149,627	992	1,050	115,081	1,069	71,940	24,357	1,788	19,256	-545	1,163	385,780	975	2,501	2,763
August	148,452	1,014	1,036	122,348	1,135	71,129	19,807	1,879	17,141	-840	1,239	384,341	967	2,585	2,846
Sept	126,110	929	1,019	106,582	1,126	67,535	16,074	1,832	18,061	-542	1,159	339,887	888	2,463	2,721
October	111,296	908	609	97,683	1,082	62,391	17,159	1,717	21,002	-448	1,122	314,522	819	2,303	2,536
November	119,127	963	775	84,354	1,073	65,140	18,625	1,380	25,428	-531	1,161	317,495	673	1,904	2,052
December	124,620	947	1,149	91,038	1,153	73,363	22,329	1,032	21,590	-480	1,218	337,957	651	1,587	1,682
Year 2015															
January	132,498	1,929	1,041	101,811	1,293	74,270	24,631	1,218	22,431	-551	1,063	361,634	643	1,797	1,861
February	127,152	5,222	1,120	91,357	1,080	63,462	22,770	1,633	21,326	-456	910	335,576	704	2,175	2,337
March	108,537	1,079	728	99,130	1,058	64,547	24,884	2,240	21,966	-411	985	324,743	979	2,933	3,220
April	88,653	912	805	92,979	931	59,757	22,558	2,567	24,203	-214	1,067	294,218	1,094	3,287	3,661
May	104,795	1,019	922	101,919	1,016	65,833	20,210	2,602	23,868	-370	1,136	322,949	1,202	3,456	3,803
June	126,122	1,036	812	121,546	1,106	68,546	20,089	2,717	20,203	-398	1,137	362,917	1,218	3,552	3,935
July	139,598	1,205	1,142	141,365	1,274	71,412	21,114	2,754	20,967	-513	1,217	401,536	1,276	3,648	4,031
August	135,285	1,109	1,071	139,493	1,216	72,415	19,434	2,834	20,237	-626	1,234	393,704	1,260	3,699	4,094
Sept	118,485	1,023	1,037	123,230	1,212	66,466	16,242	2,358	20,412	-544	1,119	351,040	1,136	3,185	3,494
October	97,431	935	857	110,025	847	60,571	16,702	2,030	22,889	-443	1,128	312,972	1,018	2,839	3,048
November	87,852	1,015	697	102,566	848	60,264	19,381	1,896	26,312	-285	1,102	301,647	836	2,528	2,732
December	89,649	972	754	109,646	1,081	69,634	23,154	1,623	27,071	-281	1,140	324,445	774	2,274	2,398
Year 2016															
January	113,751	1,359	980	109,980	1,254	72,536	25,535	1,546	25,404	-312	1,120	353,153	845	2,306	2,392
February	92,900	1,235	911	98,368	1,139	65,638	24,257	2,423	26,624	-399	982	314,079	986	3,168	3,409
March	72,313	822	951	103,477	1,238	66,149	27,158	2,721	28,325	-379	1,062	303,837	1,315	3,779	4,036
April	72,224	798	1,049	100,032	1,146	62,365	25,567	2,981	26,527	-452	1,081	293,317	1,447	4,155	4,428
Year to Date															
2014	546,115	10,673	4,102	321,936	3,470	254,583	88,727	4,390	94,430	-1,534	4,164	1,331,057	2,702	6,546	7,092
2015	456,841	9,141	3,694	385,277	4,362	262,036	94,843	7,659	89,926	-1,633	4,025	1,316,171	3,420	10,192	11,079
2016	351,187	4,215	3,891	411,857	4,777	266,688	102,517	9,672	106,880	-1,541	4,244	1,264,386	4,593	13,407	14,265
Rolling 12 Months Ending in April															
2015	1,492,436	16,744	11,548	1,189,950	12,914	804,619	265,483	20,959	257,018	-6,272	13,322	4,078,721	10,254	28,431	31,214
2016	1,250,404	12,529	11,184	1,361,648	13,378	801,829	258,842	28,486	288,840	-5,002	13,458	4,035,596	13,314	38,587	41,800

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

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

	Generation at Utility Scale Facilities										Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
Period	Wind	Solar Photovoltaic	Solar Thermal	Wood and Wood-Derived Fuels	Landfill Gas	Biogenic Municipal Solid Waste	Other Waste Biomass	Geothermal	Conventional Hydroelectric	Total Renewable Generation at Utility Scale Facilities	Estimated Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals													
2006	26,589	15	493	38,762	5,677	8,478	1,944	14,568	289,246	385,772	N/A	N/A	N/A
2007	34,450	16	596	39,014	6,158	8,304	2,063	14,637	247,510	352,747	N/A	N/A	N/A
2008	55,363	76	788	37,300	7,156	8,097	2,481	14,840	254,831	380,932	N/A	N/A	N/A
2009	73,886	157	735	36,050	7,924	8,058	2,461	15,009	273,445	417,724	N/A	N/A	N/A
2010	94,652	423	789	37,172	8,377	7,927	2,613	15,219	260,203	427,376	N/A	N/A	N/A
2011	120,177	1,012	806	37,449	9,044	7,354	2,824	15,316	319,355	513,336	N/A	N/A	N/A
2012	140,822	3,451	876	37,799	9,803	7,320	2,700	15,562	276,240	494,573	N/A	N/A	N/A
2013	167,840	8,121	915	40,028	10,658	7,186	2,986	15,775	268,565	522,073	N/A	N/A	N/A
2014	181,655	15,250	2,441	42,340	11,220	7,228	3,202	15,877	259,367	538,579	9,536	24,785	27,227
2015	190,927	23,232	3,241	42,358	11,233	7,415	3,184	16,767	251,168	549,527	12,141	35,373	38,614
Year 2014													
January	17,911	697	54	3,626	967	584	299	1,355	21,634	47,127	530	1,227	1,281
February	14,009	752	83	3,265	930	490	267	1,206	17,396	38,397	564	1,316	1,398
March	17,736	1,135	182	3,609	961	599	291	1,338	24,257	50,108	769	1,904	2,086
April	18,636	1,261	226	3,230	957	586	267	1,314	25,440	51,916	839	2,100	2,326
May	15,601	1,457	292	3,290	944	635	270	1,332	26,544	50,366	927	2,384	2,676
June	15,799	1,578	345	3,622	943	613	271	1,293	25,744	50,208	934	2,512	2,858
July	12,187	1,525	262	3,807	1,035	646	261	1,320	24,357	45,402	975	2,501	2,763
August	10,171	1,618	261	3,761	988	647	245	1,329	19,807	38,828	967	2,585	2,846
Sept	11,520	1,574	258	3,462	932	606	234	1,308	16,074	35,968	888	2,463	2,721
October	14,508	1,484	233	3,422	854	603	269	1,345	17,159	39,878	819	2,303	2,536
November	18,867	1,232	148	3,508	820	612	258	1,362	18,625	45,432	673	1,904	2,052
December	14,711	936	95	3,737	890	609	268	1,375	22,329	44,950	651	1,587	1,682
Year 2015													
January	15,262	1,154	64	3,794	983	617	299	1,475	24,631	48,280	643	1,797	1,861
February	14,959	1,471	162	3,418	822	519	261	1,346	22,770	45,729	704	2,175	2,337
March	15,331	1,954	287	3,447	895	558	278	1,456	24,884	49,090	979	2,933	3,220
April	17,881	2,194	374	3,244	913	593	233	1,338	22,558	49,328	1,094	3,287	3,661
May	17,221	2,255	347	3,366	940	626	249	1,466	20,210	46,680	1,202	3,456	3,803
June	13,477	2,334	383	3,539	940	625	240	1,381	20,089	43,009	1,218	3,552	3,935
July	13,686	2,371	383	3,913	987	679	266	1,436	21,114	44,835	1,276	3,648	4,031
August	13,073	2,439	395	3,834	976	667	260	1,427	19,434	42,505	1,260	3,699	4,094
Sept	13,916	2,049	309	3,469	891	615	240	1,281	16,242	39,012	1,136	3,185	3,494
October	16,390	1,822	208	3,300	933	624	279	1,363	16,702	41,620	1,018	2,839	3,048
November	19,663	1,691	204	3,404	947	631	288	1,380	19,381	47,589	836	2,528	2,732
December	20,067	1,499	124	3,629	1,006	660	290	1,418	23,154	51,849	774	2,274	2,398
Year 2016													
January	18,511	1,460	86	3,573	964	627	293	1,436	25,535	52,485	845	2,306	2,392
February	20,214	2,182	241	3,392	858	547	272	1,342	24,257	53,304	986	3,168	3,409
March	21,752	2,464	257	3,377	893	587	286	1,429	27,158	58,204	1,315	3,779	4,036
April	20,555	2,708	273	2,898	891	601	277	1,305	25,567	55,075	1,447	4,155	4,428
Year to Date													
2014	68,291	3,845	545	13,730	3,815	2,258	1,124	5,212	88,727	187,547	2,702	6,546	7,092
2015	63,433	6,772	887	13,904	3,614	2,288	1,072	5,615	94,843	192,428	3,420	10,192	11,079
2016	81,032	8,814	858	13,239	3,606	2,362	1,128	5,512	102,517	219,069	4,593	13,407	14,265
Rolling 12 Months Ending in April													
2015	176,797	18,177	2,783	42,514	11,019	7,258	3,150	16,280	265,483	543,460	10,254	28,431	31,214
2016	208,526	25,274	3,212	41,694	11,226	7,490	3,240	16,664	258,842	576,168	13,314	38,587	41,800

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.
Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms..
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
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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.A. Net Generation by Energy Source: Electric Utilities, 2006-April 2016
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2006	1,471,421	31,269	9,634	282,088	30	425,341	261,864	15	6,573	-5,281	700	2,483,656
2007	1,490,985	33,325	7,395	313,785	141	427,555	226,734	11	8,943	-5,328	586	2,504,131
2008	1,466,395	22,206	5,918	320,190	46	424,256	229,645	17	11,291	-5,143	545	2,475,367
2009	1,322,092	18,035	7,182	349,166	96	417,275	247,198	28	14,589	-3,369	483	2,372,776
2010	1,378,028	17,258	8,807	392,616	52	424,843	236,104	101	17,826	-4,466	462	2,471,632
2011	1,301,107	11,688	9,428	414,843	29	415,298	291,413	216	21,717	-5,492	604	2,460,851
2012	1,146,480	9,892	5,664	504,958	0	394,823	252,936	639	27,378	-4,202	603	2,339,172
2013	1,188,452	9,446	9,522	501,427	798	406,114	243,040	943	31,474	-3,773	615	2,388,058
2014	1,173,073	10,696	9,147	501,414	112	419,871	238,185	1,218	33,278	-5,144	622	2,382,473
2015	1,016,989	10,590	8,283	614,474	205	416,680	230,130	1,658	35,641	-4,105	496	2,331,041
Year 2014												
January	115,862	2,445	949	41,208	13	38,847	19,673	53	3,286	-218	47	222,165
February	104,638	1,051	706	33,600	7	32,937	15,973	61	2,698	-361	34	191,345
March	97,957	1,037	953	35,116	9	32,612	22,423	91	3,296	-355	57	193,194
April	77,724	711	572	34,890	20	30,312	22,977	98	3,274	-301	52	170,329
May	89,103	709	833	41,226	12	33,760	23,933	114	2,632	-506	49	191,866
June	104,523	650	894	44,315	5	35,898	23,790	127	2,613	-557	53	212,311
July	112,875	711	792	50,296	7	38,031	22,624	131	2,261	-445	62	227,343
August	112,568	711	778	54,553	6	37,182	18,251	130	1,894	-740	60	225,392
Sept	94,482	711	750	46,260	5	35,296	14,895	126	2,277	-461	50	194,390
October	82,991	652	457	42,360	4	32,017	15,863	124	2,826	-351	48	176,990
November	87,064	643	577	37,477	9	34,552	17,369	91	3,473	-441	55	180,869
December	93,287	666	887	40,114	15	38,428	20,415	72	2,749	-409	56	196,279
Year 2015												
January	96,609	1,160	813	45,834	27	39,377	22,809	77	3,135	-460	28	209,407
February	92,630	2,067	879	43,203	25	33,478	21,402	101	2,883	-387	30	196,310
March	80,517	701	502	45,669	22	33,328	22,856	144	3,121	-319	20	186,561
April	67,605	697	565	42,880	20	31,053	20,179	163	3,160	-153	35	166,204
May	80,817	710	691	46,370	19	35,089	18,595	169	3,035	-292	39	185,242
June	95,310	777	604	57,061	17	35,150	18,216	172	2,302	-300	35	209,345
July	105,860	863	898	64,894	17	37,055	18,979	172	2,526	-413	56	230,908
August	101,770	817	827	63,431	21	38,482	17,924	175	2,558	-513	56	225,550
Sept	87,814	702	797	56,355	23	35,034	15,098	141	2,715	-477	50	198,251
October	72,989	685	618	49,676	12	31,886	15,300	124	3,159	-364	50	174,134
November	65,572	735	485	47,367	0	30,751	17,733	117	3,566	-218	45	166,154
December	69,497	675	606	51,733	NM	35,997	21,039	103	3,481	-210	54	182,976
Year 2016												
January	85,132	940	832	52,140	NM	37,985	23,212	104	3,195	-230	50	203,364
February	70,713	792	734	47,455	NM	34,281	21,915	160	3,611	-332	47	179,383
March	57,878	597	724	49,711	NM	34,445	24,913	177	3,734	-291	57	171,951
April	54,119	579	858	47,080	8	34,036	23,604	193	3,764	-367	42	163,916
Year to Date												
2014	396,181	5,243	3,179	144,814	49	134,708	81,047	303	12,554	-1,235	190	777,034
2015	337,360	4,625	2,759	177,585	94	137,235	87,245	485	12,299	-1,318	112	758,482
2016	267,843	2,908	3,148	196,387	27	140,747	93,643	633	14,304	-1,221	195	718,614
Rolling 12 Months Ending in April												
2015	1,114,251	10,078	8,727	534,186	156	422,399	244,384	1,399	33,023	-5,227	545	2,363,921
2016	947,472	8,873	8,672	633,275	NM	420,191	236,528	1,807	37,646	-4,008	580	2,291,173

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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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-April 2016
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2006	498,316	10,396	8,409	452,329	4,223	361,877	24,390	493	58,853	-1,277	6,412	1,424,421
2007	507,406	13,645	6,942	500,967	3,901	378,869	19,109	601	65,150	-1,569	6,191	1,501,212
2008	502,442	8,021	6,737	482,182	3,154	381,952	23,451	847	84,928	-1,145	6,414	1,498,982
2009	419,031	6,306	4,288	491,839	2,962	381,579	24,308	863	100,997	-1,259	6,146	1,437,061
2010	449,709	5,117	3,497	508,774	2,915	382,126	22,351	1,105	119,851	-1,035	6,345	1,500,754
2011	416,783	3,655	3,431	511,447	2,911	374,906	26,117	1,511	140,442	-928	7,059	1,487,335
2012	354,076	2,757	1,758	627,833	2,984	374,509	20,923	3,525	156,539	-748	7,030	1,551,186
2013	379,270	3,761	1,780	527,522	3,524	382,902	22,018	7,782	181,263	-908	6,742	1,515,657
2014	395,701	6,789	1,410	531,758	3,246	377,295	19,861	16,086	196,723	-1,030	6,690	1,554,530
2015	326,949	6,104	1,607	626,464	3,450	380,498	19,676	24,232	204,777	-989	6,771	1,599,539
Year 2014												
January	40,054	3,281	109	41,761	253	34,316	1,837	681	18,727	-72	533	141,480
February	37,580	698	123	35,129	204	29,702	1,316	753	15,039	-84	472	120,930
March	37,333	880	129	35,402	206	29,785	1,715	1,196	18,569	-66	571	125,720
April	30,554	160	141	34,693	211	26,072	2,332	1,355	19,166	-77	516	115,124
May	28,635	203	125	40,419	271	29,187	2,477	1,596	16,817	-95	569	120,205
June	31,947	193	108	46,588	252	32,240	1,850	1,755	17,275	-96	565	132,678
July	35,597	236	128	56,400	276	33,909	1,641	1,618	14,183	-100	584	144,474
August	34,761	261	123	59,357	309	33,946	1,458	1,709	12,495	-101	594	144,913
Sept	30,580	171	145	52,430	293	32,238	1,091	1,670	13,267	-81	562	132,366
October	27,332	209	51	47,693	331	30,374	1,200	1,556	15,642	-97	566	124,857
November	31,053	268	88	39,234	292	30,589	1,155	1,260	19,441	-90	578	123,869
December	30,274	228	139	42,652	349	34,935	1,787	939	16,102	-71	580	127,913
Year 2015												
January	34,845	684	129	47,672	372	34,893	1,689	1,117	16,481	-92	584	138,374
February	33,509	2,995	132	41,036	308	29,984	1,252	1,499	15,967	-69	492	127,106
March	26,963	307	141	46,180	294	31,218	1,882	2,048	16,267	-92	521	125,727
April	20,218	171	140	43,198	243	28,705	2,240	2,347	18,514	-62	541	116,255
May	23,031	253	145	48,031	296	30,743	1,498	2,376	18,297	-78	572	125,163
June	29,751	205	139	56,626	285	33,396	1,770	2,482	15,312	-98	578	140,446
July	32,611	293	140	68,036	309	34,357	2,017	2,522	15,635	-101	604	156,424
August	32,373	243	143	67,602	327	33,933	1,426	2,596	14,987	-113	610	154,128
Sept	29,624	276	140	58,915	319	31,432	1,080	2,164	15,112	-67	550	139,546
October	23,452	209	150	52,755	194	28,685	1,301	1,862	17,155	-79	564	126,248
November	21,354	225	140	47,146	211	29,513	1,535	1,736	20,153	-67	565	122,511
December	19,220	244	68	49,268	292	33,637	1,984	1,484	20,896	-71	591	127,611
Year 2016												
January	27,671	364	42	49,632	365	34,551	2,190	1,411	19,539	-82	577	136,260
February	21,293	392	99	43,306	326	31,357	2,214	2,214	20,536	-66	516	122,187
March	13,510	198	138	45,598	366	31,704	2,100	2,491	22,017	-88	525	118,560
April	17,348	187	97	45,123	322	28,329	1,835	2,737	20,422	-84	553	116,868
Year to Date												
2014	145,522	5,019	503	146,986	873	119,875	7,200	3,984	71,502	-299	2,091	503,254
2015	115,534	4,156	543	178,086	1,218	124,801	7,063	7,010	67,229	-315	2,138	507,462
2016	79,821	1,140	376	183,660	1,379	125,940	8,339	8,853	82,515	-320	2,171	493,875
Rolling 12 Months Ending in April												
2015	365,714	5,927	1,450	562,858	3,591	382,220	19,723	19,112	192,451	-1,046	6,736	1,558,737
2016	291,236	3,088	1,441	632,038	3,612	381,637	20,952	26,074	220,063	-994	6,804	1,585,951

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

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

	Generation at Utility Scale Facilities												Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals															
2006	1,310	228	7	4,355	0	0	93	0	1,619	0	758	8,371	N/A	N/A	N/A
2007	1,371	180	9	4,257	0	0	77	0	1,614	0	764	8,273	N/A	N/A	N/A
2008	1,261	136	6	4,188	0	0	60	0	1,555	0	720	7,926	N/A	N/A	N/A
2009	1,096	157	5	4,225	0	0	71	0	1,769	0	842	8,165	N/A	N/A	N/A
2010	1,111	117	7	4,725	3	0	80	5	1,709	0	834	8,592	N/A	N/A	N/A
2011	1,049	86	3	5,487	3	0	26	84	2,392	0	950	10,080	N/A	N/A	N/A
2012	883	191	6	6,603	0	0	28	148	2,397	0	1,046	11,301	N/A	N/A	N/A
2013	839	118	5	7,154	0	0	44	294	2,662	0	1,118	12,234	N/A	N/A	N/A
2014	595	247	9	7,227	0	0	38	371	2,862	0	1,171	12,520	4,349	4,720	4,720
2015	488	202	8	7,690	0	0	NM	554	2,835	0	1,211	13,029	5,024	5,578	5,578
Year 2014															
January	76	102	1	651	0	0	4	16	264	0	104	1,218	253	269	269
February	79	37	1	533	0	0	3	20	216	0	71	961	271	292	292
March	66	30	1	529	0	0	4	29	230	0	84	972	364	394	394
April	47	9	1	509	0	0	4	33	229	0	96	927	394	427	427
May	39	8	0	557	0	0	4	38	238	0	102	986	433	471	471
June	42	8	0	605	0	0	3	39	245	0	99	1,041	431	470	470
July	50	9	0	701	0	0	3	38	263	0	109	1,173	447	485	485
August	42	7	1	722	0	0	3	39	256	0	110	1,181	440	479	479
Sept	36	8	1	657	0	0	3	35	243	0	104	1,086	396	432	432
October	31	9	1	601	0	0	2	36	230	0	97	1,008	355	390	390
November	44	9	1	560	0	0	2	28	218	0	98	960	287	314	314
December	45	10	1	602	0	0	2	20	230	0	97	1,007	278	298	298
Year 2015															
January	53	26	1	619	0	0	NM	23	244	0	92	1,062	286	310	310
February	59	80	1	533	0	0	NM	32	215	0	83	1,005	312	344	344
March	51	12	1	616	0	0	NM	46	243	0	95	1,067	420	466	466
April	33	8	1	539	0	0	NM	54	227	0	102	968	462	516	516
May	35	11	0	655	0	0	NM	55	238	0	105	1,102	505	560	560
June	42	NM	0	652	0	0	NM	60	229	0	103	1,101	505	564	564
July	44	13	0	720	0	0	NM	58	248	0	110	1,196	528	586	586
August	35	12	1	732	0	0	NM	60	231	0	110	1,184	509	569	569
Sept	32	NM	1	674	0	0	NM	50	233	0	111	1,113	456	506	506
October	34	NM	1	638	0	0	NM	42	236	0	95	1,057	402	444	444
November	33	NM	1	650	0	0	NM	41	245	0	100	1,079	326	366	366
December	37	8	1	661	0	0	NM	34	246	0	104	1,095	313	347	347
Year 2016															
January	41	11	1	656	0	0	NM	29	231	0	91	1,065	342	371	371
February	46	13	1	577	0	0	NM	47	203	0	76	968	385	432	432
March	44	NM	1	626	0	0	NM	50	242	0	99	1,073	501	552	552
April	30	NM	0	621	0	0	NM	50	217	0	97	1,028	523	573	573
Year to Date															
2014	267	178	3	2,222	0	0	16	98	939	0	355	4,078	1,283	1,382	1,382
2015	196	126	4	2,306	0	0	NM	155	928	0	372	4,102	1,480	1,636	1,636
2016	161	36	4	2,480	0	0	NM	177	893	0	362	4,135	1,751	1,928	1,928
Rolling 12 Months Ending in April															
2015	524	195	10	7,312	0	0	NM	427	2,851	0	1,189	12,544	4,547	4,974	4,974
2016	454	NM	8	7,864	0	0	NM	575	2,800	0	1,201	13,061	5,295	5,871	5,871

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

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

	Generation at Utility Scale Facilities												Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals															
2006	19,464	2,567	1,656	77,669	9,923	0	2,899	0	28,972	0	5,103	148,254	N/A	N/A	N/A
2007	16,694	2,355	1,889	77,580	9,411	0	1,590	0	28,919	0	4,690	143,128	N/A	N/A	N/A
2008	15,703	1,555	1,664	76,421	8,507	0	1,676	0	27,462	0	4,125	137,113	N/A	N/A	N/A
2009	13,686	1,474	1,489	75,748	7,574	0	1,868	0	26,033	0	4,457	132,329	N/A	N/A	N/A
2010	18,441	844	1,414	81,583	8,343	0	1,668	2	26,574	0	5,214	144,082	N/A	N/A	N/A
2011	14,490	657	1,234	81,911	8,624	0	1,799	7	27,612	0	5,541	141,875	N/A	N/A	N/A
2012	12,603	563	2,359	86,500	8,913	0	2,353	14	27,693	0	5,108	146,107	N/A	N/A	N/A
2013	12,554	495	2,036	88,733	8,531	0	3,463	17	29,074	0	5,113	150,015	N/A	N/A	N/A
2014	12,341	544	1,389	86,209	8,664	0	1,282	16	28,659	0	4,978	144,083	943	960	960
2015	11,632	560	1,088	86,440	9,308	0	1,323	29	28,631	0	4,762	143,773	1,190	1,219	1,219
Year 2014															
January	1,105	85	100	7,441	667	0	120	1	2,466	0	408	12,391	51	52	52
February	998	61	86	6,680	606	0	104	1	2,212	0	363	11,112	54	55	55
March	1,087	56	103	7,105	651	0	114	1	2,439	0	382	11,937	77	78	78
April	955	32	128	6,690	624	0	127	2	2,319	0	375	11,251	84	85	85
May	1,009	40	126	6,918	662	0	130	2	2,385	0	397	11,667	92	94	94
June	1,065	37	130	6,960	711	0	100	2	2,409	0	400	11,814	93	95	95
July	1,105	37	129	7,685	786	0	89	2	2,549	0	408	12,790	97	99	99
August	1,081	35	134	7,716	820	0	96	2	2,496	0	476	12,856	96	98	98
Sept	1,013	39	123	7,234	828	0	86	2	2,275	0	444	12,044	88	89	89
October	942	39	101	7,028	748	0	93	1	2,303	0	411	11,667	83	84	84
November	966	42	108	7,083	772	0	99	1	2,297	0	429	11,797	67	68	68
December	1,015	42	121	7,670	790	0	125	1	2,510	0	484	12,757	61	62	62
Year 2015															
January	992	59	98	7,685	894	0	130	NM	2,572	0	359	12,791	66	NM	NM
February	955	80	107	6,586	747	0	113	NM	2,260	0	306	11,155	70	NM	NM
March	1,007	59	84	6,666	743	0	142	3	2,335	0	349	11,387	99	102	102
April	798	36	99	6,363	668	0	136	3	2,302	0	389	10,793	107	110	110
May	912	45	86	6,863	701	0	113	NM	2,298	0	421	11,442	119	NM	NM
June	1,018	43	70	7,207	804	0	100	3	2,359	0	420	12,025	118	122	122
July	1,083	36	104	7,716	948	0	113	NM	2,558	0	447	13,008	123	NM	NM
August	1,108	37	100	7,727	867	0	81	3	2,460	0	458	12,842	120	123	123
Sept	1,015	37	99	7,286	870	0	61	3	2,352	0	409	12,130	110	113	113
October	956	34	89	6,956	641	0	97	2	2,338	0	419	11,533	101	104	104
November	893	49	NM	7,402	637	0	109	NM	2,348	0	392	11,904	81	NM	NM
December	895	45	81	7,984	788	0	127	NM	2,449	0	392	12,763	75	NM	NM
Year 2016															
January	907	45	106	7,551	885	0	127	NM	2,439	0	402	12,464	80	NM	NM
February	848	NM	77	7,031	805	0	124	NM	2,273	0	342	11,540	88	NM	NM
March	881	NM	88	7,541	864	0	139	NM	2,332	0	382	12,253	124	NM	NM
April	726	25	93	7,207	816	0	123	NM	2,124	0	389	11,506	136	NM	NM
Year to Date															
2014	4,145	234	417	27,915	2,548	0	464	5	9,436	0	1,529	46,691	266	271	271
2015	3,751	234	389	27,299	3,051	0	522	9	9,469	0	1,403	46,126	342	350	350
2016	3,362	130	364	29,331	3,371	0	513	9	9,169	0	1,515	47,763	429	437	437
Rolling 12 Months Ending in April															
2015	11,947	544	1,361	85,594	9,167	0	1,339	NM	28,692	0	4,853	143,518	1,019	NM	NM
2016	11,243	NM	NM	88,471	9,628	0	1,315	NM	28,331	0	4,874	145,411	1,277	NM	NM

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
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Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

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

	Distributed Generation
Period	**Estimated Distributed Solar Photovoltaic Generation**
Annual Totals	
2014	4,243
2015	5,927
Year 2014	
January	226
February	238
March	328
April	361
May	402
June	410
July	431
August	431
Sept	404
October	382
November	319
December	311
Year 2015	
January	291
February	322
March	461
April	524
May	578
June	595
July	625
August	631
Sept	570
October	514
November	429
December	386
Year 2016	
January	423
February	512
March	690
April	788
Year to Date	
2014	1,153
2015	1,598
2016	2,413
Rolling 12 Months Ending in April	
2015	4,689
2016	6,742

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, April 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	8,354	8,170	2.2%	157	162	7,870	7,662	94	99	233	247
Connecticut	2,675	2,837	-5.7%	NM	NM	2,615	2,774	NM	30	NM	29
Maine	926	891	3.9%	NM	NM	725	668	15	19	186	205
Massachusetts	2,484	2,180	13.9%	47	34	2,378	2,094	45	41	NM	NM
New Hampshire	1,711	1,738	-1.6%	46	50	1,659	1,681	NM	NM	NM	NM
Rhode Island	406	344	18.3%	1	1	400	339	NM	NM	0	0
Vermont	152	180	-15.5%	60	72	92	107	NM	NM	0	0
Middle Atlantic	30,292	30,510	-0.7%	2,867	2,265	26,905	27,741	190	180	330	324
New Jersey	6,063	4,947	22.6%	NM	6	5,958	4,850	53	56	44	35
New York	9,571	10,149	-5.7%	2,852	2,251	6,544	7,738	99	92	76	69
Pennsylvania	14,658	15,414	-4.9%	NM	NM	14,402	15,153	39	32	209	220
East North Central	42,095	43,232	-2.6%	16,890	19,031	24,264	23,308	162	159	780	734
Illinois	13,978	14,457	-3.3%	637	660	13,109	13,574	29	41	203	182
Indiana	7,057	7,352	-4.0%	5,819	6,056	988	1,057	19	13	231	226
Michigan	8,137	8,611	-5.5%	5,138	6,396	2,790	2,015	80	86	129	114
Ohio	8,541	8,037	6.3%	2,071	2,376	6,382	5,594	NM	NM	73	61
Wisconsin	4,383	4,775	-8.2%	3,224	3,544	995	1,068	NM	12	144	151
West North Central	23,260	23,902	-2.7%	17,815	19,489	5,087	4,086	66	48	292	279
Iowa	3,887	4,400	-11.6%	2,436	3,172	1,288	1,076	NM	14	138	138
Kansas	3,513	3,247	8.2%	2,267	2,323	1,225	920	0	0	NM	NM
Minnesota	4,758	3,885	22.5%	3,450	2,816	1,193	951	NM	18	91	100
Missouri	5,020	5,657	-11.3%	4,689	5,341	311	301	15	15	NM	NM
Nebraska	2,662	2,935	-9.3%	2,270	2,643	367	265	NM	NM	23	26
North Dakota	2,517	3,027	-16.8%	2,016	2,611	488	405	NM	NM	NM	NM
South Dakota	902	751	20.1%	687	583	215	167	NM	NM	0	0
South Atlantic	58,018	57,053	1.7%	48,113	47,824	8,370	7,691	114	99	1,420	1,439
Delaware	748	768	-2.6%	NM	NM	619	657	NM	NM	123	107
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	18,585	19,056	-2.5%	16,827	17,617	1,315	1,004	NM	NM	434	431
Georgia	9,363	9,675	-3.2%	7,556	8,382	1,463	929	NM	3	343	361
Maryland	2,661	2,670	-0.3%	2	2	2,596	2,616	41	29	22	23
North Carolina	8,676	8,164	6.3%	7,612	7,412	920	622	21	20	123	110
South Carolina	7,266	7,464	-2.7%	6,942	7,188	188	148	NM	NM	134	128
Virginia	5,117	4,895	4.5%	4,385	3,803	522	855	37	37	174	199
West Virginia	5,598	4,357	28.5%	4,785	3,417	747	859	0	0	66	81
East South Central	25,022	25,512	-1.9%	21,640	21,453	2,698	3,304	NM	NM	673	745
Alabama	9,775	10,323	-5.3%	7,055	7,387	2,401	2,569	0	0	319	367
Kentucky	5,536	5,367	3.2%	5,485	5,310	NM	7	0	0	50	51
Mississippi	4,329	4,418	-2.0%	3,912	3,556	275	704	NM	NM	140	157
Tennessee	5,382	5,403	-0.4%	5,188	5,201	20	23	NM	NM	163	170
West South Central	50,365	49,349	2.1%	16,587	16,593	27,507	27,218	89	73	6,182	5,465
Arkansas	4,374	4,345	0.7%	2,826	2,917	1,421	1,278	NM	NM	126	150
Louisiana	8,260	7,746	6.6%	4,909	4,954	755	699	NM	NM	2,583	2,078
Oklahoma	5,089	5,332	-4.6%	2,810	3,179	2,215	2,093	NM	NM	61	60
Texas	32,641	31,925	2.2%	6,043	5,542	23,116	23,148	71	58	3,411	3,177
Mountain	24,889	27,321	-8.9%	19,498	21,932	5,069	5,101	38	37	284	252
Arizona	7,379	7,319	0.8%	6,450	6,384	918	924	NM	11	0	0
Colorado	4,219	3,816	10.6%	3,139	2,938	1,073	870	NM	NM	NM	NM
Idaho	1,529	1,325	15.4%	1,051	877	430	405	0	0	48	42
Montana	2,073	2,391	-13.3%	1,030	1,077	1,041	1,313	0	0	NM	NM
Nevada	2,854	3,079	-7.3%	2,152	2,424	670	631	11	9	NM	15
New Mexico	1,831	2,654	-31.0%	1,241	2,031	579	614	NM	NM	NM	1
Utah	2,263	2,914	-22.3%	2,005	2,704	161	136	NM	NM	91	68
Wyoming	2,742	3,824	-28.3%	2,430	3,497	197	208	0	0	114	119
Pacific Contiguous	29,856	27,872	7.1%	19,603	16,530	8,765	9,846	212	222	1,276	1,273
California	14,591	14,711	-0.8%	5,978	5,295	7,303	8,102	199	211	1,110	1,103
Oregon	5,158	4,590	12.4%	4,099	3,214	998	1,318	NM	NM	53	51
Washington	10,107	8,570	17.9%	9,526	8,021	464	427	NM	NM	113	120
Pacific Noncontiguous	1,166	1,297	-10.1%	746	924	334	298	50	42	36	33
Alaska	415	533	-22.1%	379	493	14	19	14	11	NM	9
Hawaii	751	764	-1.7%	367	431	321	279	37	31	27	24
U.S. Total	293,317	294,218	-0.3%	163,916	166,204	116,868	116,255	1,028	968	11,506	10,793

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

Table 1.3.B. Utility Scale Facility Net Generation

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	34,627	36,492	-5.1%	955	1,674	32,243	33,157	414	490	1,015	1,172
Connecticut	11,980	12,737	-5.9%	NM	NM	11,690	12,433	126	144	147	144
Maine	4,315	4,640	-7.0%	NM	NM	3,454	3,604	64	71	798	965
Massachusetts	9,785	9,331	4.9%	182	173	9,359	8,886	184	218	60	54
New Hampshire	5,986	7,563	-20.8%	395	1,151	5,564	6,375	17	NM	NM	NM
Rhode Island	1,750	1,488	17.6%	4	4	1,725	1,456	NM	NM	0	0
Vermont	810	734	10.3%	357	330	452	403	NM	NM	0	0
Middle Atlantic	134,596	141,467	-4.9%	11,330	10,650	120,964	128,544	778	775	1,523	1,498
New Jersey	25,545	23,091	10.6%	11	-3	25,100	22,692	223	220	211	182
New York	42,466	44,376	-4.3%	11,281	10,621	30,434	33,011	416	419	334	326
Pennsylvania	66,586	74,000	-10.0%	NM	NM	65,431	72,841	139	136	978	991
East North Central	187,400	205,476	-8.8%	81,277	92,756	102,084	108,731	699	671	3,340	3,318
Illinois	59,618	64,581	-7.7%	2,765	3,213	55,830	60,310	147	188	876	870
Indiana	32,888	36,028	-8.7%	26,819	30,555	4,972	4,414	82	68	1,015	991
Michigan	37,305	38,318	-2.6%	25,300	28,334	11,127	9,167	340	317	538	499
Ohio	37,215	44,305	-16.0%	10,602	13,335	26,257	30,629	45	34	311	308
Wisconsin	20,374	22,244	-8.4%	15,790	17,319	3,898	4,212	84	63	601	650
West North Central	104,905	109,747	-4.4%	85,470	92,810	17,861	15,357	249	213	1,325	1,368
Iowa	17,764	20,458	-13.2%	12,328	15,217	4,691	4,469	88	80	656	691
Kansas	15,160	13,913	9.0%	10,323	10,596	4,783	3,298	0	0	54	NM
Minnesota	19,626	18,928	3.7%	15,163	14,818	3,947	3,572	94	75	421	462
Missouri	25,126	27,734	-9.4%	24,122	26,927	931	742	60	51	NM	14
Nebraska	12,023	12,651	-5.0%	10,667	11,425	1,233	1,094	7	6	116	126
North Dakota	11,715	12,845	-8.8%	10,108	11,243	1,543	1,546	NM	NM	64	56
South Dakota	3,491	3,219	8.5%	2,759	2,584	733	635	NM	NM	0	0
South Atlantic	249,226	253,926	-1.9%	208,170	214,075	34,831	33,557	451	435	5,774	5,859
Delaware	2,376	2,444	-2.8%	NM	NM	1,983	2,038	NM	NM	372	387
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	70,781	72,181	-1.9%	64,621	67,041	4,446	3,443	29	NM	1,685	1,679
Georgia	39,435	40,547	-2.7%	33,119	34,378	4,797	4,649	5	11	1,513	1,508
Maryland	11,301	12,042	-6.2%	7	8	11,051	11,761	160	155	84	118
North Carolina	40,632	41,769	-2.7%	37,012	38,901	3,066	2,297	94	85	461	486
South Carolina	31,592	31,755	-0.5%	29,983	30,678	1,007	517	NM	NM	597	558
Virginia	28,349	26,981	5.1%	23,577	21,890	3,861	4,223	135	139	776	729
West Virginia	24,739	26,185	-5.5%	19,833	21,162	4,620	4,628	0	0	285	395
East South Central	114,603	123,649	-7.3%	96,814	104,861	14,770	15,761	50	47	2,969	2,981
Alabama	45,351	47,722	-5.0%	32,510	33,843	11,418	12,424	0	0	1,422	1,455
Kentucky	25,819	28,865	-10.6%	25,516	28,598	90	54	0	0	213	213
Mississippi	19,948	21,046	-5.2%	16,128	17,232	3,183	3,203	NM	NM	629	604
Tennessee	23,486	26,016	-9.7%	22,660	25,188	78	80	43	40	705	708
West South Central	206,740	211,904	-2.4%	68,846	72,104	112,085	115,750	331	292	25,478	23,758
Arkansas	17,538	18,610	-5.8%	13,395	12,276	3,552	5,693	NM	NM	589	639
Louisiana	33,948	33,111	2.5%	19,815	19,742	3,409	3,835	61	62	10,663	9,472
Oklahoma	22,379	23,651	-5.4%	12,651	15,676	9,460	7,731	NM	NM	262	244
Texas	132,874	136,531	-2.7%	22,985	24,411	95,664	98,491	261	227	13,964	13,402
Mountain	109,536	112,620	-2.7%	85,640	90,944	22,672	20,599	136	133	1,088	944
Arizona	30,836	30,407	1.4%	27,123	27,030	3,672	3,334	41	42	0	0
Colorado	17,422	16,831	3.5%	13,017	13,135	4,377	3,668	NM	NM	NM	19
Idaho	5,597	5,050	10.8%	3,593	3,361	1,818	1,529	0	0	185	159
Montana	8,927	9,924	-10.0%	3,356	3,985	5,565	5,932	0	0	NM	6
Nevada	11,686	11,101	5.3%	8,896	8,519	2,661	2,484	39	30	91	67
New Mexico	9,453	9,904	-4.6%	6,638	7,762	2,765	2,104	NM	NM	NM	NM
Utah	11,017	13,183	-16.4%	10,094	12,453	651	512	NM	NM	251	196
Wyoming	14,598	16,220	-10.0%	12,923	14,698	1,163	1,035	0	0	512	487
Pacific Contiguous	117,764	115,537	1.9%	76,716	74,874	35,131	34,752	843	872	5,074	5,040
California	57,453	55,465	3.6%	24,068	21,471	28,188	28,787	790	827	4,407	4,380
Oregon	21,693	20,506	5.8%	16,778	16,301	4,691	3,963	NM	32	187	211
Washington	38,618	39,566	-2.4%	35,871	37,103	2,252	2,002	NM	NM	480	449
Pacific Noncontiguous	4,989	5,353	-6.8%	3,395	3,734	1,234	1,256	183	176	177	188
Alaska	1,954	2,211	-11.6%	1,776	2,034	76	82	57	55	NM	41
Hawaii	3,034	3,142	-3.4%	1,619	1,699	1,158	1,174	126	121	132	147
U.S. Total	1,264,386	1,316,171	-3.9%	718,614	758,482	493,875	507,462	4,135	4,102	47,763	46,126

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	129	39	227.7%	4	3	123	35	0	0	NM	NM
Connecticut	-2	2	-258.5%	0	0	-2	2	0	0	0	0
Maine	4	5	-18.6%	0	0	4	5	0	0	0	0
Massachusetts	123	30	304.6%	0	0	121	29	0	0	NM	NM
New Hampshire	4	3	70.9%	4	3	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	3,551	4,507	-21.2%	0	0	3,492	4,450	NM	0	59	58
New Jersey	87	61	42.8%	0	0	87	61	0	0	0	0
New York	49	64	-23.5%	0	0	17	41	0	0	32	23
Pennsylvania	3,415	4,382	-22.1%	0	0	3,387	4,348	NM	0	27	35
East North Central	18,266	21,914	-16.6%	10,935	14,358	7,145	7,345	7	13	179	198
Illinois	4,136	4,763	-13.2%	513	631	3,502	4,014	4	5	117	113
Indiana	5,114	5,441	-6.0%	4,913	5,013	198	426	NM	NM	NM	NM
Michigan	2,246	4,209	-46.6%	2,204	4,164	36	31	1	7	NM	NM
Ohio	4,990	5,000	-0.2%	1,564	2,109	3,408	2,874	NM	0	18	17
Wisconsin	1,779	2,500	-28.8%	1,741	2,440	0	0	NM	0	38	60
West North Central	10,312	14,001	-26.3%	10,120	13,789	NM	NM	NM	9	180	201
Iowa	852	2,148	-60.3%	733	2,024	0	0	NM	5	110	119
Kansas	1,175	2,160	-45.6%	1,175	2,160	0	0	0	0	0	0
Minnesota	1,259	1,481	-15.0%	1,218	1,431	0	0	NM	0	41	50
Missouri	4,184	4,231	-1.1%	4,177	4,224	NM	NM	2	5	NM	0
Nebraska	1,159	1,838	-37.0%	1,139	1,813	0	0	0	0	20	25
North Dakota	1,531	2,143	-28.6%	1,526	2,137	0	0	0	0	NM	NM
South Dakota	152	0	--	152	0	0	0	0	0	0	0
South Atlantic	13,877	14,462	-4.0%	12,431	12,802	1,350	1,548	NM	NM	93	108
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	2,452	3,296	-25.6%	2,363	3,185	80	97	0	0	NM	NM
Georgia	1,622	2,899	-44.0%	1,611	2,879	0	0	0	0	12	20
Maryland	689	734	-6.1%	0	0	683	725	0	0	6	9
North Carolina	1,417	1,767	-19.8%	1,353	1,693	NM	NM	2	3	NM	NM
South Carolina	1,531	1,209	26.6%	1,521	1,199	0	0	0	0	10	NM
Virginia	910	567	60.7%	870	474	NM	NM	NM	NM	NM	NM
West Virginia	5,256	3,990	31.7%	4,715	3,371	528	606	0	0	13	13
East South Central	8,354	9,717	-14.0%	8,215	9,325	56	297	0	0	83	95
Alabama	1,978	2,687	-26.4%	1,972	2,674	0	0	0	0	6	NM
Kentucky	4,563	4,554	0.2%	4,563	4,554	0	0	0	0	0	0
Mississippi	90	486	-81.4%	35	189	56	297	0	0	0	0
Tennessee	1,723	1,990	-13.4%	1,646	1,909	0	0	0	0	77	82
West South Central	8,812	10,746	-18.0%	4,621	5,448	4,166	5,270	0	0	NM	NM
Arkansas	1,194	1,283	-6.9%	919	972	273	307	0	0	2	4
Louisiana	582	614	-5.1%	361	187	221	427	0	0	0	0
Oklahoma	701	1,625	-56.8%	645	1,542	34	60	0	0	NM	NM
Texas	6,334	7,224	-12.3%	2,696	2,747	3,638	4,477	0	0	0	0
Mountain	8,744	13,122	-33.4%	7,782	11,865	889	1,182	0	0	73	75
Arizona	1,676	2,512	-33.3%	1,676	2,512	0	0	0	0	0	0
Colorado	1,964	2,263	-13.2%	1,960	2,258	NM	NM	0	0	NM	NM
Idaho	NM	NM	NM	0	0	0	0	0	0	NM	NM
Montana	828	1,117	-25.9%	NM	NM	814	1,096	0	0	NM	0
Nevada	71	104	-31.4%	52	97	19	8	0	0	0	0
New Mexico	686	1,589	-56.8%	686	1,589	0	0	0	0	0	0
Utah	1,264	2,169	-41.7%	1,197	2,112	NM	NM	0	0	48	37
Wyoming	2,251	3,363	-33.1%	2,198	3,276	NM	NM	0	0	20	32
Pacific Contiguous	31	37	-14.5%	0	0	0	NM	0	0	31	32
California	29	33	-13.7%	0	0	0	NM	0	0	29	28
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3	3	-21.9%	0	0	0	0	0	0	3	3
Pacific Noncontiguous	147	109	34.8%	11	16	126	84	8	6	NM	NM
Alaska	28	37	-24.8%	11	16	NM	NM	8	6	0	0
Hawaii	119	72	65.3%	0	0	117	69	0	0	NM	NM
U.S. Total	72,224	88,653	-18.5%	54,119	67,605	17,348	20,218	30	33	726	798

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

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	1,152	2,999	-61.6%	152	835	988	2,133	0	0	11	31
Connecticut	52	588	-91.1%	0	0	52	588	0	0	0	0
Maine	26	55	-53.5%	0	0	22	33	0	0	3	22
Massachusetts	921	1,521	-39.4%	0	0	914	1,512	0	0	NM	NM
New Hampshire	152	835	-81.8%	152	835	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	17,399	27,795	-37.4%	0	0	17,147	27,516	NM	NM	251	275
New Jersey	415	925	-55.2%	0	0	415	925	0	0	0	0
New York	471	1,198	-60.7%	0	0	365	1,095	0	0	106	104
Pennsylvania	16,514	25,671	-35.7%	0	0	16,368	25,496	NM	NM	145	171
East North Central	82,924	110,730	-25.1%	53,471	68,152	28,594	41,579	44	58	814	941
Illinois	17,512	25,950	-32.5%	2,345	3,097	14,647	22,292	15	19	505	541
Indiana	22,835	26,977	-15.4%	21,296	25,221	1,521	1,738	12	13	NM	NM
Michigan	12,896	17,193	-25.0%	12,707	16,991	140	130	15	25	34	47
Ohio	20,386	28,377	-28.2%	8,025	10,880	12,287	17,419	NM	NM	74	77
Wisconsin	9,296	12,232	-24.0%	9,099	11,962	0	0	NM	NM	197	270
West North Central	55,171	67,236	-17.9%	54,185	66,141	NM	10	52	65	926	1,021
Iowa	6,868	10,932	-37.2%	6,272	10,285	0	0	34	38	563	608
Kansas	6,106	8,311	-26.5%	6,106	8,311	0	0	0	0	0	0
Minnesota	7,264	8,416	-13.7%	7,044	8,166	0	0	NM	NM	219	249
Missouri	19,573	22,163	-11.7%	19,537	22,115	NM	10	18	26	NM	12
Nebraska	6,399	7,442	-14.0%	6,289	7,317	0	0	0	0	110	124
North Dakota	8,264	9,451	-12.6%	8,239	9,423	0	0	0	0	25	28
South Dakota	698	523	33.4%	698	523	0	0	0	0	0	0
South Atlantic	67,511	83,617	-19.3%	58,681	72,820	8,311	10,163	28	33	491	601
Delaware	210	358	-41.2%	0	0	210	358	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	9,347	12,906	-27.6%	9,170	12,743	105	98	0	0	NM	NM
Georgia	9,265	12,227	-24.2%	9,188	12,131	0	0	0	0	77	96
Maryland	3,992	5,433	-26.5%	0	0	3,967	5,379	0	NM	25	54
North Carolina	9,157	14,022	-34.7%	8,903	13,757	159	180	24	29	NM	NM
South Carolina	6,753	7,873	-14.2%	6,704	7,820	0	0	0	0	49	53
Virginia	5,469	5,963	-8.3%	5,164	5,417	162	417	NM	NM	139	125
West Virginia	23,319	24,835	-6.1%	19,551	20,953	3,708	3,731	0	0	61	151
East South Central	40,017	50,553	-20.8%	38,808	49,015	829	1,143	0	0	380	395
Alabama	9,158	11,769	-22.2%	9,105	11,706	0	0	0	0	53	63
Kentucky	21,398	25,526	-16.2%	21,398	25,526	0	0	0	0	0	0
Mississippi	1,404	2,361	-40.5%	575	1,218	829	1,143	0	0	0	0
Tennessee	8,057	10,896	-26.1%	7,729	10,565	0	0	0	0	328	331
West South Central	39,252	55,164	-28.8%	21,097	28,546	18,033	26,510	0	0	122	NM
Arkansas	5,936	6,628	-10.4%	4,524	5,375	1,394	1,233	0	0	18	20
Louisiana	3,209	5,242	-38.8%	2,396	2,479	813	2,763	0	0	0	0
Oklahoma	4,544	8,156	-44.3%	3,937	7,680	503	389	0	0	NM	NM
Texas	25,564	35,138	-27.2%	10,241	13,012	15,323	22,125	0	0	0	0
Mountain	46,223	57,415	-19.5%	41,013	51,732	4,987	5,438	0	0	223	246
Arizona	7,862	10,738	-26.8%	7,862	10,738	0	0	0	0	0	0
Colorado	9,015	10,497	-14.1%	8,993	10,478	NM	NM	0	0	NM	NM
Idaho	21	24	-13.4%	0	0	0	0	0	0	21	24
Montana	4,543	4,969	-8.6%	NM	NM	4,464	4,875	0	0	NM	NM
Nevada	468	642	-27.1%	254	431	214	211	0	0	0	0
New Mexico	4,669	5,974	-21.8%	4,669	5,974	0	0	0	0	0	0
Utah	7,446	10,392	-28.3%	7,285	10,211	NM	NM	0	0	73	76
Wyoming	12,199	14,180	-14.0%	11,874	13,810	200	229	0	0	125	142
Pacific Contiguous	814	718	13.4%	308	26	372	567	0	0	133	125
California	121	126	-3.8%	0	0	0	NM	0	0	121	114
Oregon	308	26	NM	308	26	0	0	0	0	0	0
Washington	384	566	-32.1%	0	0	372	554	0	0	12	11
Pacific Noncontiguous	724	614	17.9%	128	92	550	477	36	35	NM	NM
Alaska	219	189	15.8%	128	92	56	63	36	35	0	0
Hawaii	505	424	18.9%	0	0	494	414	0	0	NM	NM
U.S. Total	351,187	456,841	-23.1%	267,843	337,360	79,821	115,534	161	196	3,362	3,751

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	NM	15	NM	4	3	NM	7	NM	NM	NM	NM
Connecticut	NM	7	NM	0	1	NM	6	NM	NM	NM	NM
Maine	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Massachusetts	NM	4	NM	0	0	NM	NM	NM	NM	NM	NM
New Hampshire	3	NM	NM	2	1	NM	NM	NM	NM	NM	NM
Rhode Island	NM	NM	NM	1	1	0	0	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	46	36	29.0%	NM	5	35	20	NM	NM	5	9
New Jersey	NM	2	NM	NM	NM	NM	2	NM	NM	NM	NM
New York	20	17	17.5%	NM	5	NM	NM	NM	NM	4	9
Pennsylvania	25	16	54.2%	NM	NM	24	15	NM	NM	NM	NM
East North Central	40	39	3.6%	27	26	11	11	NM	NM	2	2
Illinois	6	4	44.1%	1	1	5	3	0	NM	NM	NM
Indiana	11	10	15.0%	9	8	NM	NM	NM	NM	2	1
Michigan	8	13	-40.5%	8	13	0	NM	NM	NM	NM	NM
Ohio	13	10	33.2%	7	2	6	8	NM	NM	NM	NM
Wisconsin	2	2	6.5%	2	2	0	NM	NM	NM	NM	NM
West North Central	7	18	-63.6%	6	17	0	NM	NM	NM	NM	NM
Iowa	-2	3	-176.4%	-2	3	NM	NM	NM	NM	NM	NM
Kansas	0	5	-102.3%	0	5	0	0	0	0	0	0
Minnesota	2	NM	NM	1	1	0	NM	NM	NM	NM	NM
Missouri	4	4	-10.0%	4	4	0	0	NM	NM	0	0
Nebraska	NM	NM	NM	NM	NM	0	0	0	0	0	0
North Dakota	1	1	-17.8%	1	1	0	0	NM	NM	NM	NM
South Dakota	NM	0	NM	NM	0	NM	NM	NM	NM	0	0
South Atlantic	106	98	7.6%	79	79	20	9	NM	NM	6	9
Delaware	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	39	48	-19.1%	37	45	NM	NM	0	0	NM	NM
Georgia	15	9	76.6%	13	6	NM	NM	NM	NM	2	NM
Maryland	12	8	41.6%	1	1	11	7	NM	NM	NM	NM
North Carolina	14	9	49.9%	13	8	NM	NM	NM	NM	NM	NM
South Carolina	5	12	-57.6%	4	7	NM	NM	NM	NM	1	4
Virginia	15	9	71.2%	3	5	11	3	NM	NM	NM	NM
West Virginia	9	7	31.8%	9	7	0	0	0	0	0	0
East South Central	15	24	-38.5%	14	23	NM	NM	NM	NM	NM	NM
Alabama	NM	NM	NM	0	3	NM	NM	0	0	NM	NM
Kentucky	5	7	-32.3%	5	7	0	0	0	0	0	0
Mississippi	1	3	-74.6%	1	3	0	0	0	0	0	0
Tennessee	8	10	-14.2%	8	9	NM	NM	NM	NM	NM	NM
West South Central	11	44	-74.5%	7	36	4	6	NM	NM	NM	NM
Arkansas	1	8	-86.1%	1	5	0	1	0	0	0	1
Louisiana	0	28	-99.4%	0	27	0	0	0	0	0	0
Oklahoma	1	NM	NM	1	NM	0	0	NM	NM	NM	NM
Texas	9	8	13.0%	5	4	4	4	NM	NM	NM	NM
Mountain	28	23	18.1%	26	22	1	1	NM	NM	NM	NM
Arizona	10	6	70.6%	10	6	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	NM	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	1	NM	NM	NM	1	1	0	0	0	0
Nevada	1	1	50.9%	1	0	0	0	0	0	0	0
New Mexico	5	10	-47.0%	5	10	0	0	0	0	NM	NM
Utah	4	3	25.5%	4	3	NM	NM	0	0	NM	NM
Wyoming	6	2	191.9%	5	2	0	0	0	0	NM	NM
Pacific Contiguous	5	6	-19.7%	2	3	NM	NM	NM	NM	NM	NM
California	4	5	-26.2%	2	3	NM	NM	NM	NM	NM	NM
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Pacific Noncontiguous	529	609	-13.1%	410	485	111	112	NM	NM	8	11
Alaska	55	64	-14.6%	52	60	0	0	NM	NM	3	4
Hawaii	474	545	-12.9%	359	424	111	112	0	0	NM	8
U.S. Total	798	912	-12.5%	579	697	187	171	NM	8	25	36

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

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	184	1,860	-90.1%	19	156	142	1,600	18	73	NM	30
Connecticut	12	381	-96.8%	2	3	8	373	NM	NM	NM	NM
Maine	79	487	-83.8%	NM	NM	75	457	NM	NM	3	28
Massachusetts	72	733	-90.1%	9	50	53	638	10	44	NM	NM
New Hampshire	7	160	-95.6%	4	98	NM	52	NM	NM	NM	NM
Rhode Island	12	96	-87.3%	4	4	6	80	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	476	2,316	-79.4%	149	736	298	1,500	NM	30	19	49
New Jersey	52	270	-80.8%	NM	NM	51	268	NM	NM	NM	NM
New York	332	1,638	-79.7%	149	735	157	829	NM	29	16	45
Pennsylvania	93	408	-77.3%	NM	0	89	404	NM	NM	2	NM
East North Central	182	200	-9.3%	124	139	48	50	NM	NM	7	10
Illinois	28	18	58.5%	7	6	20	12	1	NM	NM	NM
Indiana	44	63	-29.4%	39	56	NM	NM	NM	NM	5	6
Michigan	36	39	-7.6%	35	38	0	NM	NM	NM	NM	NM
Ohio	61	67	-7.8%	34	27	26	38	NM	NM	NM	NM
Wisconsin	11	14	-18.6%	NM	12	2	1	NM	NM	NM	NM
West North Central	66	110	-39.9%	62	101	NM	NM	NM	2	NM	NM
Iowa	11	12	-2.7%	11	11	NM	0	NM	NM	NM	NM
Kansas	6	24	-74.0%	6	24	0	0	0	0	0	0
Minnesota	NM	16	NM	NM	9	NM	NM	NM	NM	NM	NM
Missouri	22	27	-18.0%	22	27	0	0	NM	NM	0	0
Nebraska	7	7	-0.8%	7	7	0	0	0	0	0	0
North Dakota	9	10	-5.4%	9	9	0	0	NM	NM	NM	NM
South Dakota	NM	13	NM	NM	13	NM	NM	NM	NM	0	0
South Atlantic	793	1,797	-55.9%	533	1,287	226	448	NM	NM	32	45
Delaware	40	130	-69.3%	NM	NM	39	128	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	118	234	-49.6%	109	222	NM	NM	0	0	8	NM
Georgia	63	105	-40.2%	30	41	19	46	1	1	12	17
Maryland	87	135	-35.6%	4	5	82	114	NM	NM	NM	NM
North Carolina	125	294	-57.5%	96	268	27	20	NM	NM	NM	6
South Carolina	57	140	-59.2%	49	121	NM	12	NM	NM	7	7
Virginia	269	712	-62.2%	211	593	56	115	NM	NM	NM	NM
West Virginia	34	46	-26.2%	34	36	0	11	0	0	0	0
East South Central	88	148	-40.5%	76	123	5	12	NM	NM	7	NM
Alabama	22	47	-52.1%	12	25	5	12	0	0	6	NM
Kentucky	30	43	-31.3%	30	43	0	0	0	0	0	0
Mississippi	7	8	-15.8%	6	7	0	0	0	0	1	1
Tennessee	29	50	-41.4%	28	48	NM	0	NM	NM	NM	NM
West South Central	49	113	-56.8%	36	73	11	37	NM	NM	NM	NM
Arkansas	12	22	-45.2%	10	15	1	5	0	0	1	2
Louisiana	7	53	-86.0%	6	44	2	9	0	0	0	0
Oklahoma	4	NM	NM	4	1	0	0	NM	NM	NM	NM
Texas	25	37	-31.7%	17	12	8	24	NM	NM	NM	NM
Mountain	81	83	-1.6%	75	76	5	5	NM	NM	NM	NM
Arizona	23	20	14.7%	23	20	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	NM	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	7	NM	NM	NM	4	4	0	0	0	0
Nevada	3	5	-40.9%	2	4	1	1	0	0	0	0
New Mexico	22	27	-18.2%	22	27	0	0	0	0	NM	NM
Utah	9	6	41.1%	9	6	NM	NM	0	0	NM	NM
Wyoming	15	13	14.4%	13	12	0	0	0	0	NM	NM
Pacific Contiguous	18	20	-10.7%	11	11	NM	NM	NM	NM	NM	3
California	13	16	-16.0%	10	10	NM	NM	NM	NM	NM	NM
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	NM	NM	NM	NM	NM	1	1	NM	NM	3	3
Pacific Noncontiguous	2,278	2,495	-8.7%	1,821	1,923	402	490	2	2	NM	79
Alaska	252	271	-6.8%	238	255	0	0	NM	NM	13	15
Hawaii	2,026	2,224	-8.9%	1,583	1,669	402	490	1	1	NM	64
U.S. Total	4,215	9,141	-53.9%	2,908	4,625	1,140	4,156	36	126	130	234

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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, April 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	NM	NM	0	0	0	0	0	0	NM	NM
New Jersey	NM	0	--	0	0	0	0	0	0	NM	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	258	191	35.0%	165	66	70	100	0	0	NM	26
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	102	0	--	102	0	0	0	0	0	0	0
Michigan	72	72	-0.1%	58	58	0	3	0	0	NM	NM
Ohio	71	97	-27.3%	0	0	70	97	0	0	NM	0
Wisconsin	12	21	-42.3%	5	8	0	0	0	0	8	14
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	222	104	112.1%	210	86	0	0	0	0	11	19
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	210	86	145.1%	210	86	0	0	0	0	0	0
Georgia	11	19	-39.6%	0	0	0	0	0	0	11	19
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	96	68	42.3%	96	68	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	96	68	42.3%	96	68	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	419	382	9.9%	387	346	0	0	0	0	NM	NM
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	412	366	12.3%	387	346	0	0	0	0	NM	NM
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	15	NM	0	0	0	0	0	0	NM	15
Mountain	27	40	-31.4%	0	0	27	40	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	27	40	-31.4%	0	0	27	40	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,049	805	30.2%	858	565	97	140	0	1	93	99

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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 April 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 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	72	64	11.8%	0	0	0	0	0	0	72	64
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	56	62	-9.2%	0	0	0	0	0	0	56	62
East North Central	983	988	-0.6%	669	509	231	385	0	0	83	95
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	497	263	89.1%	497	263	0	0	0	0	0	0
Michigan	216	290	-25.5%	159	228	3	12	0	0	NM	50
Ohio	231	373	-38.0%	0	0	228	373	0	0	NM	0
Wisconsin	38	63	-38.9%	12	18	0	0	0	0	26	45
West North Central	NM	26	NM	0	0	0	0	4	4	NM	NM
Iowa	NM	26	NM	0	0	0	0	4	4	NM	NM
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	776	530	46.5%	729	457	0	0	0	0	47	73
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	729	457	59.6%	729	457	0	0	0	0	0	0
Georgia	47	73	-35.7%	0	0	0	0	0	0	47	73
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	344	405	-15.3%	344	405	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	344	405	-15.3%	344	405	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	1,542	1,523	1.3%	1,407	1,388	0	0	0	0	135	135
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,502	1,471	2.1%	1,407	1,388	0	0	0	0	95	83
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	41	52	-22.4%	0	0	0	0	0	0	41	52
Mountain	145	156	-6.5%	0	0	145	156	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	145	156	-6.5%	0	0	145	156	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	3,891	3,694	5.3%	3,148	2,759	376	543	4	4	364	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.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	4,379	3,777	16.0%	27	6	4,188	3,624	69	66	95	81
Connecticut	1,655	1,299	27.4%	0	0	1,599	1,244	NM	26	NM	29
Maine	252	175	43.6%	0	0	200	132	NM	NM	50	42
Massachusetts	1,577	1,508	4.6%	24	5	1,503	1,460	38	35	NM	NM
New Hampshire	509	471	8.0%	4	1	503	467	NM	NM	NM	NM
Rhode Island	387	323	20.0%	0	0	383	320	NM	NM	0	0
Vermont	0	0	-96.9%	0	0	0	0	0	0	0	0
Middle Atlantic	11,945	10,111	18.1%	882	582	10,845	9,333	91	74	128	122
New Jersey	3,304	2,303	43.5%	NM	NM	3,258	2,259	NM	NM	NM	26
New York	4,134	3,559	16.2%	873	575	3,175	2,917	63	53	23	NM
Pennsylvania	4,506	4,249	6.1%	NM	NM	4,412	4,157	NM	NM	80	82
East North Central	8,603	6,019	42.9%	3,453	2,389	4,870	3,404	121	107	159	119
Illinois	1,164	720	61.6%	118	22	989	636	23	35	NM	28
Indiana	1,100	1,224	-10.1%	728	993	316	185	15	NM	41	37
Michigan	2,805	1,307	114.6%	1,004	323	1,695	902	56	45	51	37
Ohio	2,231	1,867	19.5%	466	254	1,748	1,602	NM	NM	NM	NM
Wisconsin	1,303	901	44.6%	1,137	797	121	79	NM	NM	30	13
West North Central	1,999	1,204	66.0%	1,593	890	314	270	NM	25	54	NM
Iowa	151	105	44.5%	124	93	NM	0	NM	NM	NM	NM
Kansas	151	94	61.6%	132	89	0	0	0	0	NM	NM
Minnesota	855	626	36.5%	685	538	140	71	NM	NM	NM	NM
Missouri	626	289	116.2%	442	83	173	198	10	8	NM	NM
Nebraska	68	24	179.2%	65	24	0	0	NM	NM	NM	NM
North Dakota	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
South Dakota	106	42	150.8%	106	42	0	0	0	0	0	0
South Atlantic	24,094	22,961	4.9%	19,305	19,108	4,428	3,533	50	34	311	286
Delaware	709	746	-5.0%	NM	NM	612	650	0	0	92	93
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	13,196	13,222	-0.2%	12,092	12,524	981	581	NM	NM	118	115
Georgia	4,239	3,184	33.1%	2,830	2,291	1,375	860	0	0	33	32
Maryland	407	304	33.8%	0	0	362	275	NM	NM	NM	NM
North Carolina	3,192	2,619	21.9%	2,718	2,323	453	286	1	1	NM	NM
South Carolina	793	1,185	-33.0%	628	1,071	157	111	NM	NM	7	NM
Virginia	1,448	1,614	-10.3%	1,014	896	401	689	NM	NM	32	29
West Virginia	107	83	29.1%	18	1	86	82	0	0	2	NM
East South Central	8,174	7,293	12.1%	5,417	4,172	2,598	2,969	NM	NM	148	142
Alabama	3,719	3,516	5.8%	1,251	876	2,378	2,557	0	0	90	83
Kentucky	584	326	79.5%	570	302	0	6	0	0	NM	NM
Mississippi	3,161	2,825	11.9%	2,912	2,389	219	406	NM	NM	28	28
Tennessee	710	627	13.3%	684	605	NM	NM	NM	NM	16	13
West South Central	26,743	25,553	4.7%	8,083	7,075	13,265	13,797	82	67	5,313	4,614
Arkansas	1,469	1,255	17.1%	307	264	1,132	960	NM	NM	29	29
Louisiana	5,165	4,714	9.6%	2,634	2,885	419	172	NM	NM	2,099	1,643
Oklahoma	2,731	2,220	23.0%	1,896	1,272	820	937	NM	0	NM	NM
Texas	17,377	17,364	0.1%	3,247	2,654	10,895	11,728	64	52	3,172	2,930
Mountain	7,476	6,399	16.8%	6,170	4,959	1,166	1,309	26	27	114	104
Arizona	2,496	1,801	38.6%	1,926	1,235	561	557	NM	NM	0	0
Colorado	1,208	765	57.9%	1,062	605	144	159	0	0	NM	NM
Idaho	89	167	-46.5%	NM	79	66	83	0	0	NM	4
Montana	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Nevada	2,029	2,224	-8.8%	1,868	2,069	137	137	NM	NM	NM	15
New Mexico	748	757	-1.2%	513	406	224	342	NM	NM	NM	1
Utah	786	584	34.6%	723	520	NM	NM	NM	NM	29	31
Wyoming	67	53	26.3%	NM	NM	NM	NM	0	0	54	52
Pacific Contiguous	6,431	9,379	-31.4%	1,969	3,422	3,450	4,959	132	130	880	868
California	5,646	7,621	-25.9%	1,566	2,448	3,101	4,191	122	122	856	860
Oregon	450	1,177	-61.8%	131	444	295	721	NM	NM	17	NM
Washington	335	581	-42.4%	272	530	53	48	NM	NM	7	3
Pacific Noncontiguous	187	282	-33.7%	181	276	0	0	NM	NM	NM	NM
Alaska	187	282	-33.7%	181	276	0	0	NM	NM	NM	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	100,032	92,979	7.6%	47,080	42,880	45,123	43,198	621	539	7,207	6,363

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

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	15,512	13,834	12.1%	51	27	14,745	13,123	311	310	405	373
Connecticut	5,966	5,239	13.9%	0	0	5,695	4,972	125	124	146	143
Maine	1,114	1,029	8.2%	0	0	905	842	NM	NM	201	180
Massachusetts	5,683	4,466	27.3%	48	25	5,429	4,239	158	160	48	41
New Hampshire	1,091	1,791	-39.1%	4	1	1,073	1,775	NM	NM	NM	NM
Rhode Island	1,659	1,308	26.8%	0	0	1,643	1,295	NM	NM	0	0
Vermont	0	1	-88.0%	0	1	0	0	0	0	0	0
Middle Atlantic	47,683	43,541	9.5%	3,407	3,220	43,271	39,372	383	353	622	595
New Jersey	12,777	10,188	25.4%	NM	NM	12,561	9,978	63	59	124	124
New York	15,852	16,127	-1.7%	3,374	3,191	12,121	12,617	270	249	87	71
Pennsylvania	19,054	17,226	10.6%	NM	NM	18,590	16,778	50	46	410	400
East North Central	36,861	29,436	25.2%	15,600	12,847	20,090	15,571	525	476	646	542
Illinois	4,931	3,070	60.6%	386	87	4,272	2,680	128	167	144	136
Indiana	6,150	5,984	2.8%	4,731	4,818	1,187	940	58	43	174	183
Michigan	9,527	6,417	48.5%	2,640	1,560	6,447	4,527	233	185	207	145
Ohio	10,342	9,596	7.8%	2,432	2,369	7,852	7,172	42	NM	NM	23
Wisconsin	5,911	4,369	35.3%	5,411	4,013	331	251	NM	50	105	55
West North Central	6,564	4,759	37.9%	5,417	4,074	868	509	127	86	151	90
Iowa	877	678	29.4%	795	622	NM	NM	NM	NM	NM	NM
Kansas	384	304	26.1%	335	288	0	0	0	0	49	NM
Minnesota	3,116	2,110	47.7%	2,587	1,856	427	176	NM	46	NM	33
Missouri	1,578	1,312	20.2%	1,109	964	441	333	26	14	NM	NM
Nebraska	110	70	58.3%	103	67	0	0	NM	NM	NM	NM
North Dakota	153	91	67.6%	142	82	0	0	0	0	NM	NM
South Dakota	346	194	78.2%	346	194	0	0	0	0	0	0
South Atlantic	96,519	89,188	8.2%	78,968	74,491	16,248	13,440	193	160	1,110	1,097
Delaware	2,008	1,864	7.7%	NM	NM	1,698	1,518	0	0	295	334
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	47,908	46,689	2.6%	44,213	44,227	3,240	1,989	NM	NM	440	465
Georgia	16,316	15,052	8.4%	11,761	10,571	4,413	4,350	0	0	142	131
Maryland	1,349	825	63.4%	0	0	1,175	681	147	128	27	NM
North Carolina	13,623	11,340	20.1%	12,132	10,137	1,429	1,162	4	1	59	41
South Carolina	4,081	4,109	-0.7%	3,190	3,738	862	361	NM	NM	25	9
Virginia	10,944	9,105	20.2%	7,627	5,773	3,198	3,229	NM	NM	118	101
West Virginia	269	183	47.3%	31	33	232	150	0	0	6	NM
East South Central	38,278	35,936	6.5%	23,825	20,830	13,766	14,443	49	46	638	617
Alabama	17,061	17,340	-1.6%	5,366	4,657	11,329	12,336	0	0	367	348
Kentucky	2,527	1,382	82.9%	2,365	1,251	85	50	0	0	78	80
Mississippi	15,442	14,554	6.1%	12,954	12,359	2,350	2,056	NM	NM	131	132
Tennessee	3,247	2,660	22.1%	3,141	2,562	NM	NM	42	39	62	57
West South Central	106,620	108,032	-1.3%	32,340	29,889	52,157	57,700	302	267	21,821	20,176
Arkansas	4,255	5,830	-27.0%	2,048	1,283	2,089	4,411	NM	NM	117	135
Louisiana	21,706	18,970	14.4%	10,822	10,633	2,130	715	61	62	8,693	7,560
Oklahoma	10,370	10,534	-1.6%	7,293	6,976	3,017	3,508	NM	0	52	50
Texas	70,289	72,697	-3.3%	12,177	10,997	44,920	49,066	233	204	12,959	12,430
Mountain	28,361	22,681	25.0%	22,258	16,824	5,507	5,335	97	103	500	419
Arizona	8,109	5,689	42.5%	5,620	3,385	2,454	2,269	NM	35	0	0
Colorado	4,077	2,992	36.3%	3,486	2,232	585	754	0	1	NM	NM
Idaho	1,101	670	64.2%	541	292	530	362	0	0	30	16
Montana	267	190	40.5%	243	174	NM	NM	0	0	0	0
Nevada	8,626	7,730	11.6%	8,042	7,140	480	507	NM	NM	90	66
New Mexico	3,181	3,022	5.3%	1,825	1,671	1,307	1,314	NM	NM	NM	NM
Utah	2,752	2,176	26.5%	2,480	1,922	125	111	NM	NM	126	120
Wyoming	248	212	16.9%	NM	NM	NM	NM	0	0	225	202
Pacific Contiguous	34,593	36,761	-5.9%	13,684	14,298	17,008	18,593	492	503	3,409	3,368
California	27,085	31,023	-12.7%	9,315	11,026	13,991	16,199	451	472	3,327	3,327
Oregon	4,332	3,660	18.4%	1,650	1,420	2,605	2,193	NM	NM	46	22
Washington	3,176	2,078	52.9%	2,719	1,852	412	201	NM	NM	37	19
Pacific Noncontiguous	867	1,110	-21.9%	835	1,086	0	0	NM	NM	NM	NM
Alaska	867	1,110	-21.9%	835	1,086	0	0	NM	NM	NM	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	411,857	385,277	6.9%	196,387	177,585	183,660	178,086	2,480	2,306	29,331	27,299

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, April 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 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	67	47	40.7%	0	0	0	0	0	0	67	47
New Jersey	15	NM	NM	0	0	0	0	0	0	15	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	52	39	33.2%	0	0	0	0	0	0	52	39
East North Central	404	312	29.6%	8	20	192	122	0	0	204	170
Illinois	31	NM	NM	0	0	0	0	0	0	31	NM
Indiana	155	142	8.7%	NM	0	0	0	0	0	152	142
Michigan	134	105	27.2%	6	20	128	86	0	0	0	0
Ohio	85	46	84.1%	0	0	63	36	0	0	21	NM
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	NM	NM	NM	0	0	0	0	0	0	NM	NM
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	NM	NM	NM	0	0	0	0	0	0	NM	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	32	13	142.6%	0	0	0	0	0	0	32	13
Delaware	30	12	156.8%	0	0	0	0	0	0	30	12
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	-16.1%	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	2	1	45.0%	0	0	0	0	0	0	2	1
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	28.0%	0	0	0	0	0	0	1	1
West South Central	422	377	12.1%	0	0	93	89	0	0	329	288
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	232	182	27.7%	0	0	0	0	0	0	232	182
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	190	195	-2.5%	0	0	93	89	0	0	97	107
Mountain	40	37	9.6%	0	0	1	2	0	0	40	34
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	2	-67.3%	0	0	1	2	0	0	0	0
Nevada	0	1	-100.0%	0	0	0	1	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	40	34	15.6%	0	0	0	0	0	0	40	34
Pacific Contiguous	167	133	25.5%	0	0	36	30	0	0	131	102
California	131	102	27.5%	0	0	0	0	0	0	131	102
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	36	30	18.8%	0	0	36	30	0	0	0	0
Pacific Noncontiguous	NM	NM	NM	0	0	0	0	0	0	NM	NM
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	NM	NM	NM	0	0	0	0	0	0	NM	NM
U.S. Total	1,146	931	23.1%	8	20	322	243	0	0	816	668

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 April 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 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	247	208	18.9%	0	0	0	0	0	0	247	208
New Jersey	70	54	29.3%	0	0	0	0	0	0	70	54
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	177	154	15.3%	0	0	0	0	0	0	177	154
East North Central	1,799	1,590	13.2%	27	94	830	652	0	0	943	844
Illinois	146	110	32.3%	0	0	4	0	0	0	142	110
Indiana	713	665	7.1%	NM	NM	0	0	0	0	701	657
Michigan	548	511	7.3%	15	85	533	426	0	0	0	0
Ohio	392	303	29.4%	0	0	292	226	0	0	100	77
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	81	58	40.0%	0	0	0	0	0	0	81	58
Delaware	73	48	54.2%	0	0	0	0	0	0	73	48
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	1	26.4%	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	7	9	-30.2%	0	0	0	0	0	0	7	9
East South Central	19	17	13.1%	0	0	0	0	0	0	19	17
Alabama	NM	13	NM	0	0	0	0	0	0	NM	13
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	5	4	24.4%	0	0	0	0	0	0	5	4
West South Central	1,744	1,679	3.9%	0	0	407	436	0	0	1,337	1,243
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	912	834	9.4%	0	0	0	0	0	0	912	834
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	831	845	-1.6%	0	0	407	436	0	0	425	409
Mountain	165	148	11.6%	0	0	5	7	0	0	160	141
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	4	6	-21.4%	0	0	4	6	0	0	0	0
Nevada	1	1	-38.1%	0	0	1	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	160	141	13.4%	0	0	0	0	0	0	160	141
Pacific Contiguous	679	629	7.9%	0	0	138	123	0	0	541	506
California	541	506	7.0%	0	0	0	0	0	0	541	506
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	138	123	12.0%	0	0	138	123	0	0	0	0
Pacific Noncontiguous	23	NM	NM	0	0	0	0	0	0	23	NM
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	23	NM	NM	0	0	0	0	0	0	23	NM
U.S. Total	4,777	4,362	9.5%	27	94	1,379	1,218	0	0	3,371	3,051

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, April 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	2,261	2,588	-12.6%	0	0	2,261	2,588	0	0	0	0
Connecticut	871	1,387	-37.2%	0	0	871	1,387	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	489	303	61.6%	0	0	489	303	0	0	0	0
New Hampshire	901	898	0.3%	0	0	901	898	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	10,896	11,766	-7.4%	0	0	10,896	11,766	0	0	0	0
New Jersey	2,461	2,379	3.4%	0	0	2,461	2,379	0	0	0	0
New York	2,510	3,721	-32.5%	0	0	2,510	3,721	0	0	0	0
Pennsylvania	5,925	5,666	4.6%	0	0	5,925	5,666	0	0	0	0
East North Central	11,421	11,572	-1.3%	1,618	1,543	9,803	10,030	0	0	0	0
Illinois	7,532	7,789	-3.3%	0	0	7,532	7,789	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,203	2,128	3.6%	1,618	1,543	586	585	0	0	0	0
Ohio	914	791	15.6%	0	0	914	791	0	0	0	0
Wisconsin	772	865	-10.8%	0	0	772	865	0	0	0	0
West North Central	3,511	2,568	36.7%	3,074	2,129	437	439	0	0	0	0
Iowa	437	439	-0.4%	0	0	437	439	0	0	0	0
Kansas	879	-16	NM	879	-16	0	0	0	0	0	0
Minnesota	1,255	578	117.2%	1,255	578	0	0	0	0	0	0
Missouri	18	881	-97.9%	18	881	0	0	0	0	0	0
Nebraska	922	687	34.3%	922	687	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	16,520	15,790	4.6%	15,239	14,606	1,281	1,185	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,050	1,731	18.4%	2,050	1,731	0	0	0	0	0	0
Georgia	2,898	2,945	-1.6%	2,898	2,945	0	0	0	0	0	0
Maryland	1,281	1,185	8.1%	0	0	1,281	1,185	0	0	0	0
North Carolina	3,240	2,957	9.6%	3,240	2,957	0	0	0	0	0	0
South Carolina	4,644	4,671	-0.6%	4,644	4,671	0	0	0	0	0	0
Virginia	2,407	2,301	4.6%	2,407	2,301	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,642	5,507	20.6%	6,642	5,507	0	0	0	0	0	0
Alabama	3,223	2,687	19.9%	3,223	2,687	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	964	975	-1.1%	964	975	0	0	0	0	0	0
Tennessee	2,455	1,845	33.1%	2,455	1,845	0	0	0	0	0	0
West South Central	6,504	5,531	17.6%	2,854	2,834	3,650	2,697	0	0	0	0
Arkansas	1,327	1,325	0.1%	1,327	1,325	0	0	0	0	0	0
Louisiana	1,528	1,509	1.3%	1,528	1,509	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,650	2,697	35.3%	0	0	3,650	2,697	0	0	0	0
Mountain	2,159	2,007	7.6%	2,159	2,007	0	0	0	0	0	0
Arizona	2,159	2,007	7.6%	2,159	2,007	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	2,449	2,429	0.9%	2,449	2,429	0	0	0	0	0	0
California	1,635	1,645	-0.6%	1,635	1,645	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	814	783	4.0%	814	783	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	62,365	59,757	4.4%	34,036	31,053	28,329	28,705	0	0	0	0

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

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	10,592	11,020	-3.9%	0	0	10,592	11,020	0	0	0	0
Connecticut	5,274	5,939	-11.2%	0	0	5,274	5,939	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	1,898	1,490	27.4%	0	0	1,898	1,490	0	0	0	0
New Hampshire	3,419	3,591	-4.8%	0	0	3,419	3,591	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	51,987	52,341	-0.7%	0	0	51,987	52,341	0	0	0	0
New Jersey	11,488	10,992	4.5%	0	0	11,488	10,992	0	0	0	0
New York	13,470	14,360	-6.2%	0	0	13,470	14,360	0	0	0	0
Pennsylvania	27,029	26,988	0.1%	0	0	27,029	26,988	0	0	0	0
East North Central	51,022	49,823	2.4%	8,640	8,228	42,383	41,595	0	0	0	0
Illinois	32,130	31,097	3.3%	0	0	32,130	31,097	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	11,004	10,579	4.0%	8,640	8,228	2,364	2,351	0	0	0	0
Ohio	4,782	4,691	1.9%	0	0	4,782	4,691	0	0	0	0
Wisconsin	3,106	3,457	-10.1%	0	0	3,106	3,457	0	0	0	0
West North Central	16,097	14,101	14.2%	14,327	12,375	1,770	1,726	0	0	0	0
Iowa	1,770	1,726	2.5%	0	0	1,770	1,726	0	0	0	0
Kansas	3,542	1,673	111.7%	3,542	1,673	0	0	0	0	0	0
Minnesota	4,355	3,753	16.1%	4,355	3,753	0	0	0	0	0	0
Missouri	2,683	3,460	-22.5%	2,683	3,460	0	0	0	0	0	0
Nebraska	3,748	3,489	7.4%	3,748	3,489	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	67,247	65,620	2.5%	62,702	61,152	4,545	4,468	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	10,061	9,237	8.9%	10,061	9,237	0	0	0	0	0	0
Georgia	10,623	10,871	-2.3%	10,623	10,871	0	0	0	0	0	0
Maryland	4,545	4,468	1.7%	0	0	4,545	4,468	0	0	0	0
North Carolina	13,355	13,176	1.4%	13,355	13,176	0	0	0	0	0	0
South Carolina	18,806	18,210	3.3%	18,806	18,210	0	0	0	0	0	0
Virginia	9,857	9,659	2.1%	9,857	9,659	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	23,979	25,475	-5.9%	23,979	25,475	0	0	0	0	0	0
Alabama	13,091	13,224	-1.0%	13,091	13,224	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	2,593	3,648	-28.9%	2,593	3,648	0	0	0	0	0	0
Tennessee	8,295	8,603	-3.6%	8,295	8,603	0	0	0	0	0	0
West South Central	24,982	23,398	6.8%	10,317	9,748	14,664	13,650	0	0	0	0
Arkansas	5,132	4,550	12.8%	5,132	4,550	0	0	0	0	0	0
Louisiana	5,185	5,198	-0.3%	5,185	5,198	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	14,664	13,650	7.4%	0	0	14,664	13,650	0	0	0	0
Mountain	10,963	10,631	3.1%	10,963	10,631	0	0	0	0	0	0
Arizona	10,963	10,631	3.1%	10,963	10,631	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	9,818	9,626	2.0%	9,818	9,626	0	0	0	0	0	0
California	6,603	6,429	2.7%	6,603	6,429	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	3,215	3,197	0.6%	3,215	3,197	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	266,688	262,036	1.8%	140,747	137,235	125,940	124,801	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 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, April 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	682	782	-12.8%	87	105	557	638	NM	NM	38	38
Connecticut	NM	43	NM	NM	NM	NM	40	0	0	0	0
Maine	300	328	-8.4%	0	0	263	290	0	0	37	38
Massachusetts	85	100	-15.0%	NM	NM	69	77	NM	NM	NM	NM
New Hampshire	165	193	-14.9%	36	38	128	155	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	99	118	-16.6%	33	42	65	76	0	0	0	0
Middle Atlantic	2,601	2,585	0.6%	2,015	1,708	581	871	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,380	2,153	10.5%	2,009	1,700	366	447	NM	NM	NM	NM
Pennsylvania	219	429	-48.9%	NM	NM	213	421	0	0	0	0
East North Central	502	384	30.5%	435	322	48	47	NM	NM	NM	NM
Illinois	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
Indiana	36	NM	NM	36	NM	0	0	0	0	0	0
Michigan	161	130	23.9%	145	118	NM	NM	0	0	NM	NM
Ohio	51	31	65.3%	32	NM	NM	NM	0	0	0	0
Wisconsin	244	197	23.8%	218	176	NM	NM	0	0	NM	NM
West North Central	774	993	-22.0%	751	974	NM	NM	0	0	3	2
Iowa	86	69	24.2%	86	69	NM	NM	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	56	45	25.8%	NM	NM	NM	NM	0	0	3	2
Missouri	50	114	-55.6%	50	114	0	0	0	0	0	0
Nebraska	118	96	23.3%	118	96	0	0	0	0	0	0
North Dakota	136	193	-29.7%	136	193	0	0	0	0	0	0
South Dakota	326	475	-31.2%	326	475	0	0	0	0	0	0
South Atlantic	1,061	1,559	-32.0%	840	1,119	167	368	NM	NM	53	70
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	234	277	-15.6%	231	274	NM	NM	0	0	NM	NM
Maryland	137	313	-56.1%	0	0	137	313	0	0	0	0
North Carolina	278	437	-36.4%	272	429	NM	NM	NM	NM	NM	NM
South Carolina	191	260	-26.4%	184	252	NM	NM	NM	NM	0	0
Virginia	99	113	-11.9%	93	105	NM	NM	0	0	NM	NM
West Virginia	104	138	-24.7%	NM	38	12	34	0	0	50	67
East South Central	1,285	2,376	-45.9%	1,284	2,375	NM	NM	0	0	0	0
Alabama	607	1,147	-47.0%	607	1,147	0	0	0	0	0	0
Kentucky	242	373	-35.2%	241	372	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	436	857	-49.1%	436	857	0	0	0	0	0	0
West South Central	615	796	-22.7%	502	697	113	99	0	0	0	0
Arkansas	265	353	-24.8%	263	350	NM	NM	0	0	0	0
Louisiana	108	93	15.7%	0	0	108	93	0	0	0	0
Oklahoma	167	238	-30.0%	167	238	0	0	0	0	0	0
Texas	75	112	-32.4%	73	108	NM	NM	0	0	0	0
Mountain	3,254	2,968	9.7%	3,106	2,860	148	107	NM	NM	0	0
Arizona	625	569	10.0%	625	569	0	0	0	0	0	0
Colorado	155	104	49.0%	133	86	NM	NM	NM	NM	0	0
Idaho	1,123	857	31.1%	1,017	784	106	73	0	0	0	0
Montana	969	1,010	-4.1%	954	998	NM	NM	0	0	0	0
Nevada	230	260	-11.4%	226	257	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	66	54	22.5%	65	53	NM	NM	0	0	0	0
Wyoming	72	103	-29.9%	71	102	NM	NM	0	0	0	0
Pacific Contiguous	14,657	9,974	47.0%	14,457	9,887	198	86	NM	NM	0	0
California	2,759	989	179.0%	2,626	953	131	35	NM	NM	0	0
Oregon	3,835	2,666	43.8%	3,805	2,642	NM	NM	0	0	0	0
Washington	8,062	6,318	27.6%	8,026	6,291	37	NM	0	0	0	0
Pacific Noncontiguous	136	141	-3.8%	127	132	3	5	0	0	NM	NM
Alaska	125	130	-4.0%	125	130	0	0	0	0	0	0
Hawaii	NM	NM	NM	NM	NM	3	5	0	0	NM	NM
U.S. Total	25,567	22,558	13.3%	23,604	20,179	1,835	2,240	NM	NM	123	136

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	3,098	2,673	15.9%	445	348	2,488	2,172	NM	NM	163	151
Connecticut	186	156	19.0%	NM	NM	171	144	0	0	0	0
Maine	1,366	1,291	5.8%	0	0	1,207	1,142	0	0	160	149
Massachusetts	415	320	29.7%	96	69	313	246	NM	NM	NM	NM
New Hampshire	607	483	25.7%	153	124	454	359	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	522	421	24.0%	181	142	341	280	0	0	0	0
Middle Atlantic	11,061	9,486	16.6%	7,923	6,848	3,109	2,612	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	9,803	8,434	16.2%	7,889	6,819	1,886	1,589	NM	NM	NM	NM
Pennsylvania	1,242	1,042	19.2%	34	29	1,208	1,013	0	0	0	0
East North Central	1,814	1,817	-0.2%	1,542	1,555	205	189	NM	NM	65	72
Illinois	52	41	28.8%	NM	NM	31	23	NM	NM	0	0
Indiana	134	90	48.5%	134	90	0	0	0	0	0	0
Michigan	570	610	-6.7%	515	558	44	41	0	0	NM	NM
Ohio	197	135	46.2%	101	48	96	87	0	0	0	0
Wisconsin	861	941	-8.5%	771	842	NM	NM	0	0	NM	61
West North Central	3,536	3,647	-3.0%	3,447	3,565	76	77	0	0	13	5
Iowa	302	341	-11.6%	300	339	NM	NM	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	202	203	-0.5%	124	130	65	68	0	0	13	5
Missouri	619	299	106.8%	619	299	0	0	0	0	0	0
Nebraska	421	444	-5.2%	421	444	0	0	0	0	0	0
North Dakota	618	757	-18.4%	618	757	0	0	0	0	0	0
South Dakota	1,366	1,596	-14.4%	1,366	1,596	0	0	0	0	0	0
South Atlantic	7,382	5,094	44.9%	6,154	3,947	993	892	NM	NM	228	249
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	89	76	18.0%	89	76	0	0	0	0	0	0
Georgia	1,507	1,002	50.4%	1,492	989	NM	NM	0	0	NM	NM
Maryland	805	696	15.7%	0	0	805	696	0	0	0	0
North Carolina	2,494	1,589	57.0%	2,460	1,562	NM	NM	NM	NM	NM	NM
South Carolina	1,350	894	51.1%	1,315	866	NM	NM	NM	NM	0	0
Virginia	614	341	79.8%	580	314	NM	NM	0	0	NM	NM
West Virginia	523	497	5.3%	217	140	94	121	0	0	212	235
East South Central	9,896	9,089	8.9%	9,893	9,086	NM	NM	0	0	0	0
Alabama	4,935	4,230	16.7%	4,935	4,230	0	0	0	0	0	0
Kentucky	1,332	1,336	-0.3%	1,329	1,333	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	3,630	3,524	3.0%	3,630	3,524	0	0	0	0	0	0
West South Central	3,521	2,216	58.9%	3,056	1,876	466	341	0	0	0	0
Arkansas	1,675	1,058	58.3%	1,659	1,050	NM	NM	0	0	0	0
Louisiana	435	321	35.6%	0	0	435	321	0	0	0	0
Oklahoma	938	569	64.9%	938	569	0	0	0	0	0	0
Texas	473	268	76.2%	459	256	NM	NM	0	0	0	0
Mountain	10,485	11,038	-5.0%	10,084	10,640	398	396	NM	NM	0	0
Arizona	2,493	2,099	18.7%	2,493	2,099	0	0	0	0	0	0
Colorado	683	551	23.9%	604	468	77	81	NM	NM	0	0
Idaho	3,236	3,255	-0.6%	2,988	3,018	248	237	0	0	0	0
Montana	3,002	3,685	-18.5%	2,948	3,626	NM	59	0	0	0	0
Nevada	595	953	-37.5%	582	939	NM	NM	0	0	0	0
New Mexico	51	NM	NM	51	NM	0	0	0	0	0	0
Utah	239	236	1.0%	236	234	NM	NM	0	0	0	0
Wyoming	186	214	-12.8%	183	210	NM	NM	0	0	0	0
Pacific Contiguous	51,160	49,184	4.0%	50,559	48,807	595	375	NM	NM	0	0
California	8,150	3,657	122.9%	7,788	3,515	357	140	NM	NM	0	0
Oregon	14,553	14,649	-0.7%	14,441	14,538	111	111	0	0	0	0
Washington	28,458	30,879	-7.8%	28,330	30,755	128	124	0	0	0	0
Pacific Noncontiguous	563	599	-5.9%	540	572	5	6	0	0	NM	NM
Alaska	532	563	-5.6%	532	563	0	0	0	0	0	0
Hawaii	NM	35	NM	NM	NM	5	6	0	0	NM	NM
U.S. Total	102,517	94,843	8.1%	93,643	87,245	8,339	7,063	NM	NM	513	522

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	778	843	-7.7%	35	45	642	676	13	19	89	103
Connecticut	66	57	15.0%	NM	0	65	55	0	NM	0	0
Maine	338	343	-1.7%	0	0	243	231	6	9	88	103
Massachusetts	179	196	-8.3%	7	8	168	184	NM	NM	NM	NM
New Hampshire	125	167	-25.0%	0	8	123	156	NM	3	0	0
Rhode Island	17	19	-8.3%	0	0	17	18	NM	NM	0	0
Vermont	53	62	-13.4%	27	30	26	32	NM	NM	0	0
Middle Atlantic	1,063	1,313	-19.0%	9	10	948	1,172	59	64	47	67
New Jersey	152	161	-5.3%	9	10	115	119	28	32	NM	NM
New York	444	587	-24.4%	0	0	416	552	17	19	12	16
Pennsylvania	467	565	-17.3%	0	0	417	501	15	13	35	51
East North Central	2,557	2,718	-5.9%	291	326	2,112	2,236	19	20	135	137
Illinois	1,076	1,127	-4.5%	NM	NM	1,074	1,126	NM	NM	0	0
Indiana	508	478	6.2%	28	25	473	446	NM	NM	5	5
Michigan	526	636	-17.3%	139	178	321	387	12	17	54	54
Ohio	183	194	-5.2%	NM	3	152	161	NM	NM	29	29
Wisconsin	264	283	-6.7%	120	118	92	116	5	NM	47	49
West North Central	6,613	5,039	31.2%	2,258	1,640	4,302	3,346	13	9	39	44
Iowa	2,355	1,630	44.5%	1,496	983	850	637	NM	NM	6	7
Kansas	1,306	1,003	30.3%	81	85	1,223	918	0	0	NM	0
Minnesota	1,295	1,118	15.9%	239	225	1,022	852	5	4	29	37
Missouri	144	106	35.4%	NM	4	136	101	3	2	NM	NM
Nebraska	393	288	36.4%	24	22	367	265	NM	NM	0	0
North Dakota	802	661	21.3%	311	256	488	405	0	0	NM	0
South Dakota	317	234	35.8%	102	66	215	167	0	0	0	0
South Atlantic	1,927	1,817	6.1%	186	119	945	867	42	42	753	790
Delaware	11	13	-12.3%	NM	NM	9	10	NM	NM	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	361	406	-11.1%	43	25	155	219	4	NM	159	160
Georgia	366	358	2.2%	7	NM	87	68	NM	3	271	286
Maryland	107	99	7.8%	NM	NM	94	85	NM	NM	9	11
North Carolina	506	346	46.1%	17	NM	382	244	16	15	90	86
South Carolina	167	160	4.2%	30	25	24	28	0	0	113	107
Virginia	289	297	-2.7%	87	65	74	75	18	19	110	137
West Virginia	121	138	-12.5%	0	0	121	138	0	0	0	0
East South Central	486	543	-10.6%	8	7	43	37	NM	NM	434	499
Alabama	243	278	-12.5%	NM	0	22	12	0	0	220	265
Kentucky	43	40	6.5%	7	7	NM	NM	0	0	35	33
Mississippi	113	129	-12.5%	0	0	NM	NM	0	0	112	128
Tennessee	87	96	-9.5%	0	0	20	23	NM	NM	67	73
West South Central	6,737	5,843	15.3%	131	161	6,211	5,258	7	6	387	418
Arkansas	108	121	-10.6%	0	0	14	7	NM	NM	95	114
Louisiana	203	212	-4.2%	0	0	7	7	0	0	196	205
Oklahoma	1,491	1,251	19.1%	109	131	1,358	1,096	0	0	23	24
Texas	4,934	4,258	15.9%	22	30	4,832	4,148	7	NM	73	75
Mountain	3,135	2,723	15.1%	274	243	2,809	2,435	11	9	40	35
Arizona	409	423	-3.3%	50	54	357	367	2	2	0	0
Colorado	913	705	29.5%	8	14	903	689	NM	2	NM	NM
Idaho	312	296	5.4%	15	14	259	249	0	0	39	33
Montana	167	151	10.2%	17	15	149	135	0	0	NM	NM
Nevada	521	488	6.8%	NM	0	510	483	7	5	NM	NM
New Mexico	378	288	31.5%	23	15	355	272	NM	NM	0	0
Utah	128	103	24.5%	16	15	113	88	0	0	0	0
Wyoming	306	269	13.9%	143	116	163	152	0	0	0	0
Pacific Contiguous	6,069	5,793	4.8%	747	757	5,054	4,738	78	92	190	206
California	4,348	4,210	3.3%	170	214	4,052	3,854	75	88	52	54
Oregon	869	743	16.9%	162	127	669	569	NM	NM	36	45
Washington	851	840	1.3%	415	416	332	316	NM	NM	103	107
Pacific Noncontiguous	143	138	3.5%	16	14	92	97	23	20	11	6
Alaska	21	19	9.2%	10	10	NM	5	4	4	NM	0
Hawaii	122	119	2.6%	6	5	87	93	19	15	10	6
U.S. Total	29,508	26,770	10.2%	3,956	3,323	23,159	20,861	267	281	2,126	2,305

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

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	3,642	3,659	-0.5%	287	307	2,909	2,750	54	69	392	533
Connecticut	293	254	15.2%	NM	0	292	245	0	9	0	0
Maine	1,605	1,653	-2.9%	0	0	1,187	1,088	27	33	390	532
Massachusetts	687	674	2.0%	29	28	644	633	14	12	NM	NM
New Hampshire	693	686	1.1%	82	92	601	581	10	12	0	0
Rhode Island	77	82	-5.7%	0	0	74	79	NM	NM	0	0
Vermont	287	310	-7.4%	175	187	111	123	NM	NM	0	0
Middle Atlantic	5,241	5,316	-1.4%	34	29	4,686	4,764	234	239	287	284
New Jersey	588	555	5.9%	34	29	441	414	112	112	NM	NM
New York	2,388	2,451	-2.6%	0	0	2,222	2,295	68	75	98	82
Pennsylvania	2,265	2,310	-2.0%	0	0	2,023	2,055	54	53	188	202
East North Central	11,609	10,644	9.1%	1,327	1,326	9,650	8,653	75	77	558	588
Illinois	4,733	4,213	12.4%	6	NM	4,725	4,206	NM	NM	0	0
Indiana	2,401	1,863	28.9%	111	98	2,264	1,736	6	7	20	21
Michigan	2,536	2,668	-5.0%	718	746	1,547	1,629	46	55	225	239
Ohio	816	755	8.1%	10	11	690	617	NM	NM	113	125
Wisconsin	1,124	1,146	-1.9%	481	465	425	465	19	13	199	204
West North Central	23,141	19,678	17.6%	7,827	6,451	15,091	12,984	54	45	169	197
Iowa	7,906	6,743	17.2%	4,950	3,960	2,919	2,740	13	11	24	32
Kansas	5,113	3,594	42.3%	334	300	4,774	3,292	0	0	5	NM
Minnesota	4,548	4,310	5.5%	990	857	3,408	3,278	20	17	130	158
Missouri	514	427	20.3%	15	15	482	400	15	11	NM	NM
Nebraska	1,338	1,200	11.5%	99	100	1,233	1,094	6	6	0	0
North Dakota	2,642	2,511	5.2%	1,090	962	1,543	1,546	0	0	9	NM
South Dakota	1,080	893	21.0%	348	258	733	635	0	0	0	0
South Atlantic	8,001	7,406	8.0%	826	584	3,823	3,434	159	156	3,193	3,232
Delaware	44	44	-0.3%	NM	NM	35	34	NM	NM	4	5
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,505	1,662	-9.5%	166	80	696	924	14	11	629	648
Georgia	1,566	1,445	8.4%	23	NM	359	248	4	10	1,180	1,183
Maryland	429	393	9.3%	3	3	382	333	12	11	32	46
North Carolina	1,768	1,243	42.2%	66	NM	1,314	809	60	51	327	381
South Carolina	753	728	3.4%	138	138	107	116	0	0	508	474
Virginia	1,349	1,276	5.8%	427	354	343	356	66	71	513	495
West Virginia	586	615	-4.7%	0	0	586	615	0	0	0	0
East South Central	2,115	2,122	-0.3%	31	29	167	160	NM	NM	1,916	1,932
Alabama	1,069	1,099	-2.7%	NM	NM	85	77	0	0	982	1,021
Kentucky	165	163	1.8%	29	28	NM	NM	0	0	135	133
Mississippi	500	474	5.6%	0	0	4	4	0	0	496	470
Tennessee	380	386	-1.7%	0	0	76	77	NM	NM	303	308
West South Central	28,656	19,441	47.4%	589	597	26,335	17,072	29	25	1,703	1,747
Arkansas	503	515	-2.4%	0	0	52	36	NM	NM	450	478
Louisiana	873	897	-2.6%	0	0	29	28	0	0	844	869
Oklahoma	6,529	4,401	48.4%	497	465	5,932	3,833	0	0	100	102
Texas	20,751	13,628	52.3%	92	132	20,322	13,174	28	23	309	299
Mountain	13,030	10,451	24.7%	1,349	1,145	11,504	9,155	38	27	140	124
Arizona	1,387	1,241	11.8%	163	168	1,218	1,066	7	7	0	0
Colorado	3,736	2,871	30.1%	37	51	3,692	2,814	6	6	NM	NM
Idaho	1,239	1,100	12.6%	64	51	1,040	930	0	0	134	119
Montana	843	807	4.5%	87	91	751	712	0	0	NM	NM
Nevada	1,987	1,765	12.6%	10	0	1,953	1,751	24	13	NM	NM
New Mexico	1,530	836	83.0%	71	45	1,458	790	NM	NM	0	0
Utah	520	371	39.9%	84	80	435	291	0	0	0	0
Wyoming	1,789	1,460	22.5%	831	659	957	801	0	0	0	0
Pacific Contiguous	20,649	18,411	12.2%	2,598	2,256	16,929	14,987	345	366	776	803
California	14,954	13,608	9.9%	613	667	13,790	12,367	333	353	218	221
Oregon	2,485	2,158	15.2%	378	317	1,960	1,644	6	7	141	189
Washington	3,209	2,646	21.3%	1,607	1,272	1,179	976	7	6	417	392
Pacific Noncontiguous	469	456	2.8%	70	60	274	280	81	79	44	37
Alaska	84	77	8.6%	42	38	20	19	17	18	4	NM
Hawaii	385	379	1.6%	28	21	254	262	64	61	40	35
U.S. Total	116,552	97,585	19.4%	14,937	12,784	91,367	74,239	1,070	1,084	9,177	9,478

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	-45	-38	19.4%	0	0	-45	-38	0	0	0	0
Connecticut	0	0	-175.5%	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-45	-37	21.4%	0	0	-45	-37	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	-82	-63	30.8%	-43	-39	-39	-24	0	0	0	0
New Jersey	-9	-11	-17.0%	-9	-11	0	0	0	0	0	0
New York	-34	-28	21.3%	-34	-28	0	0	0	0	0	0
Pennsylvania	-39	-24	63.2%	0	0	-39	-24	0	0	0	0
East North Central	-45	-24	86.8%	-45	-24	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	-45	-24	86.8%	-45	-24	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	-6	25	-123.2%	-6	25	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	-6	25	-123.2%	-6	25	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	-192	-94	104.5%	-192	-94	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	-33	-14	140.2%	-33	-14	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	-69	-38	81.9%	-69	-38	0	0	0	0	0	0
Virginia	-90	-42	113.0%	-90	-42	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-40	-24	68.5%	-40	-24	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	-40	-24	68.5%	-40	-24	0	0	0	0	0	0
West South Central	2	-4	-147.0%	2	-4	0	0	0	0	0	0
Arkansas	9	0	--	9	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-7	-4	77.6%	-7	-4	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-21	-25	-16.4%	-21	-25	0	0	0	0	0	0
Arizona	4	0	648.0%	4	0	0	0	0	0	0	0
Colorado	-25	-26	-4.1%	-25	-26	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	-22	33	-167.7%	-22	33	0	0	0	0	0	0
California	-22	32	-168.2%	-22	32	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	1	-150.2%	0	1	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-452	-214	110.8%	-367	-153	-84	-62	0	0	0	0

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

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	-174	-158	10.3%	0	0	-174	-158	0	0	0	0
Connecticut	0	-7	-104.5%	0	0	0	-7	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-174	-151	15.2%	0	0	-174	-151	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	-330	-342	-3.6%	-184	-184	-146	-157	0	0	0	0
New Jersey	-53	-60	-10.8%	-53	-60	0	0	0	0	0	0
New York	-130	-125	4.5%	-130	-125	0	0	0	0	0	0
Pennsylvania	-146	-157	-7.2%	0	0	-146	-157	0	0	0	0
East North Central	-134	-109	22.6%	-134	-109	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	-134	-109	22.6%	-134	-109	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	132	24	460.8%	132	24	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	132	24	460.8%	132	24	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	-506	-663	-23.6%	-506	-663	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	2	-228	-100.9%	2	-228	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	-220	-214	2.4%	-220	-214	0	0	0	0	0	0
Virginia	-289	-221	31.0%	-289	-221	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-163	-114	42.9%	-163	-114	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	-163	-114	42.9%	-163	-114	0	0	0	0	0	0
West South Central	3	-13	-126.4%	3	-13	0	0	0	0	0	0
Arkansas	22	3	782.8%	22	3	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-19	-16	20.3%	-19	-16	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-106	-109	-2.1%	-106	-109	0	0	0	0	0	0
Arizona	-1	-11	-92.1%	-1	-11	0	0	0	0	0	0
Colorado	-106	-98	8.0%	-106	-98	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	-264	-150	76.5%	-264	-150	0	0	0	0	0	0
California	-262	-176	48.3%	-262	-176	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-2	27	-107.5%	-2	27	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-1,541	-1,633	-5.6%	-1,221	-1,318	-320	-315	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, April 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	158	163	-3.6%	0	0	141	132	7	10	10	22
Connecticut	49	43	15.6%	0	0	49	41	0	NM	0	0
Maine	32	39	-18.8%	0	0	15	10	7	8	10	22
Massachusetts	72	77	-6.7%	0	0	72	77	0	0	0	0
New Hampshire	4	NM	NM	0	0	4	NM	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	185	193	-4.2%	0	0	147	154	38	40	0	0
New Jersey	45	38	18.3%	0	0	34	26	11	12	0	0
New York	67	76	-11.2%	0	0	50	58	17	18	0	0
Pennsylvania	72	79	-8.5%	0	0	63	70	9	9	0	0
East North Central	88	106	-16.7%	3	7	13	13	13	18	58	68
Illinois	22	23	-6.3%	0	0	0	0	0	0	22	23
Indiana	31	41	-24.9%	0	0	0	0	NM	NM	29	39
Michigan	27	34	-21.0%	NM	5	12	12	12	16	2	1
Ohio	2	NM	NM	0	0	NM	NM	0	0	1	0
Wisconsin	7	6	10.3%	2	3	0	0	0	0	5	NM
West North Central	38	44	-13.7%	19	25	11	11	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	36	35	0.4%	16	16	11	11	NM	NM	NM	NM
Missouri	NM	6	NM	NM	6	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	2	NM	NM	2	NM	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	371	343	8.1%	15	0	179	182	17	17	161	144
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	260	245	5.9%	15	0	99	106	0	0	146	140
Georgia	12	0	NM	0	0	0	0	0	0	12	0
Maryland	29	27	6.1%	0	0	29	27	0	NM	0	0
North Carolina	29	28	3.4%	0	0	29	28	0	0	0	0
South Carolina	3	5	-34.0%	0	0	NM	NM	0	0	3	4
Virginia	39	38	1.9%	0	0	22	21	17	17	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	5	2	234.7%	4	0	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	4	0	--	4	0	0	0	0	0	0	0
Mississippi	NM	NM	NM	0	0	0	0	0	0	NM	NM
Tennessee	1	1	2.8%	0	0	0	0	0	0	1	1
West South Central	99	82	20.3%	0	0	5	NM	0	0	94	81
Arkansas	0	1	-75.8%	0	0	0	0	0	0	0	1
Louisiana	30	28	9.1%	0	0	0	0	0	0	30	28
Oklahoma	5	NM	NM	0	0	3	0	0	0	NM	NM
Texas	63	52	21.0%	0	0	NM	NM	0	0	61	51
Mountain	47	29	63.2%	NM	NM	29	24	0	0	17	NM
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	NM	NM
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	28	23	20.4%	0	0	28	23	0	0	0	0
Nevada	NM	NM	NM	NM	NM	0	0	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	14	NM	NM	0	0	NM	NM	0	0	14	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	70	89	-20.9%	NM	NM	27	24	0	0	43	64
California	60	73	-17.2%	NM	NM	17	15	0	0	43	58
Oregon	4	NM	NM	0	0	4	NM	0	0	0	0
Washington	6	12	-50.4%	0	0	6	6	0	0	0	6
Pacific Noncontiguous	20	15	28.3%	NM	NM	2	0	18	15	0	0
Alaska	NM	NM	NM	NM	NM	0	0	0	0	0	0
Hawaii	20	15	32.0%	0	0	2	0	18	15	0	0
U.S. Total	1,081	1,067	1.4%	42	35	553	541	97	102	389	389

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

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	621	606	2.6%	0	0	553	516	29	36	40	54
Connecticut	196	186	5.4%	0	0	196	179	0	7	0	0
Maine	126	125	0.8%	0	0	58	43	29	29	40	54
Massachusetts	282	278	1.4%	0	0	282	278	0	0	0	0
New Hampshire	17	16	3.4%	0	0	17	16	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	761	742	2.6%	0	0	613	595	148	147	0	0
New Jersey	178	153	16.0%	0	0	129	104	49	49	0	0
New York	280	292	-4.1%	0	0	213	226	67	65	0	0
Pennsylvania	303	297	2.3%	0	0	271	264	32	32	0	0
East North Central	339	357	-4.9%	12	16	53	57	51	57	224	226
Illinois	85	83	2.8%	0	0	1	0	0	0	84	83
Indiana	115	124	-7.1%	0	0	0	0	6	6	109	118
Michigan	106	119	-10.9%	5	9	48	52	45	51	8	7
Ohio	8	9	-10.4%	0	0	4	6	0	0	3	3
Wisconsin	25	22	13.2%	6	7	0	0	0	0	19	15
West North Central	149	152	-2.0%	72	78	46	45	11	10	19	18
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	NM	NM	NM	0	0	0	0	0	0	NM	NM
Minnesota	132	120	10.5%	57	47	46	45	11	10	18	18
Missouri	6	22	-74.1%	6	22	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	10	9	1.6%	10	9	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,421	1,278	11.2%	83	0	684	711	62	63	591	504
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	1,022	918	11.3%	83	0	404	429	0	0	535	489
Georgia	47	1	NM	0	0	0	0	0	0	47	1
Maryland	94	91	2.7%	0	0	93	91	NM	NM	0	0
North Carolina	111	105	5.5%	0	0	111	105	0	0	0	0
South Carolina	11	16	-32.4%	0	0	NM	NM	0	0	9	14
Virginia	136	146	-7.1%	0	0	74	84	62	63	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	30	18	66.3%	22	11	0	0	0	0	8	8
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	22	11	112.4%	22	11	0	0	0	0	0	0
Mississippi	NM	NM	NM	0	0	0	0	0	0	NM	NM
Tennessee	6	6	2.4%	0	0	0	0	0	0	6	6
West South Central	370	351	5.5%	0	0	12	4	0	0	358	346
Arkansas	3	5	-44.7%	0	0	0	0	0	0	3	5
Louisiana	119	126	-5.5%	0	0	0	0	0	0	119	126
Oklahoma	13	5	177.7%	0	0	7	0	0	0	6	5
Texas	235	215	9.3%	0	0	NM	4	0	0	230	211
Mountain	189	125	51.3%	5	6	120	107	0	0	64	12
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	13	14	-2.0%	0	0	NM	NM	0	0	12	12
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	118	105	12.4%	0	0	118	105	0	0	0	0
Nevada	5	5	-6.9%	5	5	0	0	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	53	NM	NM	0	0	NM	NM	0	0	52	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	298	335	-11.2%	NM	NM	86	100	0	0	211	235
California	247	274	-9.8%	NM	NM	48	63	0	0	200	211
Oregon	15	14	3.1%	0	0	15	14	0	0	0	0
Washington	35	46	-23.9%	0	0	23	23	0	0	12	23
Pacific Noncontiguous	65	61	6.0%	NM	NM	4	2	61	59	0	0
Alaska	NM	NM	NM	NM	NM	0	0	0	0	0	0
Hawaii	65	60	7.3%	0	0	4	2	61	59	0	0
U.S. Total	4,244	4,025	5.4%	195	112	2,171	2,138	362	372	1,515	1,403

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	211	207	2.2%	20	26	188	177	NM	NM	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	129	111	16.4%	0	0	129	111	0	0	0	0
Massachusetts	19	21	-9.4%	6	6	10	13	NM	NM	NM	NM
New Hampshire	38	41	-7.9%	0	0	38	41	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	NM	NM	0	0
Vermont	24	32	-24.9%	14	21	10	11	0	0	0	0
Middle Atlantic	535	739	-27.6%	0	0	535	739	0	0	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	259	391	-33.8%	0	0	258	390	0	0	NM	NM
Pennsylvania	274	346	-20.7%	0	0	274	346	0	0	0	0
East North Central	2,074	2,217	-6.5%	236	286	1,831	1,927	NM	NM	NM	4
Illinois	1,026	1,073	-4.3%	NM	NM	1,025	1,071	NM	NM	0	0
Indiana	451	425	6.1%	0	0	451	425	NM	NM	0	0
Michigan	332	435	-23.7%	137	177	194	257	0	0	0	0
Ohio	114	120	-5.2%	NM	NM	107	116	NM	0	NM	3
Wisconsin	151	165	-8.5%	96	106	54	58	0	0	NM	NM
West North Central	6,434	4,860	32.4%	2,215	1,599	4,216	3,258	NM	3	0	0
Iowa	2,334	1,609	45.1%	1,494	981	840	627	NM	NM	0	0
Kansas	1,299	997	30.3%	81	85	1,218	913	0	0	0	0
Minnesota	1,167	979	19.2%	209	193	955	783	NM	3	0	0
Missouri	132	97	36.1%	0	0	132	97	0	0	0	0
Nebraska	385	283	35.8%	17	18	367	265	0	0	0	0
North Dakota	800	661	20.9%	311	256	488	405	0	0	0	0
South Dakota	317	234	35.8%	102	66	215	167	0	0	0	0
South Atlantic	164	177	-7.0%	0	0	164	176	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	44	39	12.3%	0	0	44	39	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	120	137	-12.5%	0	0	120	137	0	0	0	0
East South Central	4	6	-24.0%	0	0	4	6	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	4	6	-24.0%	0	0	4	6	0	0	0	0
West South Central	6,217	5,321	16.8%	129	157	6,085	5,161	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	1,466	1,226	19.6%	109	131	1,357	1,095	0	0	0	0
Texas	4,751	4,095	16.0%	20	26	4,728	4,066	NM	NM	0	0
Mountain	2,024	1,691	19.7%	183	158	1,840	1,532	NM	NM	NM	NM
Arizona	49	52	-5.7%	0	0	49	52	0	0	0	0
Colorado	864	668	29.4%	8	14	855	653	NM	NM	NM	NM
Idaho	249	238	4.6%	14	13	235	225	0	0	0	0
Montana	166	150	10.2%	17	15	149	135	0	0	0	0
Nevada	31	34	-7.3%	0	0	31	34	0	0	0	0
New Mexico	308	220	40.2%	0	0	308	220	NM	NM	0	0
Utah	50	60	-17.3%	0	0	50	60	0	0	0	0
Wyoming	306	269	13.9%	143	116	163	152	0	0	0	0
Pacific Contiguous	2,810	2,580	8.9%	596	579	2,213	2,000	NM	NM	NM	NM
California	1,335	1,261	5.9%	63	82	1,271	1,179	NM	NM	NM	NM
Oregon	776	638	21.6%	155	121	621	517	0	0	0	0
Washington	699	681	2.7%	378	376	321	305	0	0	0	0
Pacific Noncontiguous	81	84	-4.1%	10	10	70	74	0	0	0	0
Alaska	15	15	3.6%	10	10	NM	5	0	0	0	0
Hawaii	65	69	-5.7%	0	0	65	69	0	0	0	0
U.S. Total	20,555	17,881	15.0%	3,389	2,815	17,146	15,050	12	11	8	5

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

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	964	876	10.0%	92	106	856	757	14	12	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	586	482	21.8%	0	0	586	482	0	0	0	0
Massachusetts	83	82	1.5%	23	22	48	49	11	10	NM	NM
New Hampshire	178	175	1.3%	0	0	178	175	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	NM	NM	0	0
Vermont	111	133	-15.9%	69	84	42	48	0	0	0	0
Middle Atlantic	2,990	3,115	-4.0%	0	0	2,988	3,114	0	0	NM	NM
New Jersey	9	8	6.3%	0	0	9	8	0	0	0	0
New York	1,558	1,649	-5.5%	0	0	1,557	1,648	0	0	NM	NM
Pennsylvania	1,423	1,458	-2.4%	0	0	1,423	1,458	0	0	0	0
East North Central	9,582	8,578	11.7%	1,098	1,154	8,456	7,407	NM	NM	24	15
Illinois	4,535	4,002	13.3%	NM	NM	4,528	3,996	NM	NM	0	0
Indiana	2,189	1,674	30.8%	0	0	2,189	1,673	NM	NM	0	0
Michigan	1,737	1,814	-4.3%	715	745	1,022	1,069	0	0	0	0
Ohio	541	463	16.8%	NM	NM	512	445	NM	0	21	12
Wisconsin	580	625	-7.2%	372	399	205	224	0	0	NM	NM
West North Central	22,400	18,939	18.3%	7,652	6,298	14,735	12,629	12	12	0	0
Iowa	7,824	6,656	17.6%	4,942	3,952	2,881	2,703	NM	NM	0	0
Kansas	5,087	3,571	42.5%	334	300	4,752	3,271	0	0	0	0
Minnesota	4,003	3,746	6.9%	864	742	3,127	2,993	11	11	0	0
Missouri	467	387	20.8%	0	0	467	387	0	0	0	0
Nebraska	1,306	1,180	10.7%	73	85	1,233	1,094	0	0	0	0
North Dakota	2,633	2,507	5.0%	1,090	962	1,543	1,546	0	0	0	0
South Dakota	1,080	893	21.0%	348	258	733	635	0	0	0	0
South Atlantic	799	795	0.6%	0	0	798	793	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	213	179	18.7%	0	0	213	179	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	585	614	-4.7%	0	0	585	614	0	0	0	0
East South Central	19	19	-2.0%	0	0	19	19	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	19	19	-2.0%	0	0	19	19	0	0	0	0
West South Central	26,430	17,237	53.3%	584	548	25,833	16,679	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	6,422	4,294	49.6%	495	465	5,927	3,829	0	0	0	0
Texas	20,008	12,943	54.6%	89	83	19,906	12,850	NM	NM	0	0
Mountain	8,972	6,929	29.5%	1,017	849	7,952	6,078	NM	NM	NM	NM
Arizona	183	133	37.9%	0	0	183	133	0	0	0	0
Colorado	3,559	2,741	29.8%	37	51	3,520	2,689	NM	NM	NM	NM
Idaho	1,004	880	14.1%	62	48	943	832	0	0	0	0
Montana	839	803	4.5%	87	91	751	712	0	0	0	0
Nevada	101	106	-5.2%	0	0	101	106	0	0	0	0
New Mexico	1,297	629	106.3%	0	0	1,296	628	NM	NM	0	0
Utah	201	177	13.4%	0	0	201	177	0	0	0	0
Wyoming	1,789	1,460	22.5%	831	659	957	801	0	0	0	0
Pacific Contiguous	8,648	6,712	28.9%	1,933	1,578	6,712	5,131	NM	NM	NM	NM
California	3,967	2,941	34.9%	131	165	3,833	2,773	NM	NM	NM	NM
Oregon	2,093	1,719	21.7%	349	294	1,744	1,425	0	0	0	0
Washington	2,588	2,052	26.2%	1,453	1,119	1,135	933	0	0	0	0
Pacific Noncontiguous	228	233	-2.2%	42	38	185	195	0	0	0	0
Alaska	62	57	9.3%	42	38	20	19	0	0	0	0
Hawaii	166	176	-5.9%	0	0	166	176	0	0	0	0
U.S. Total	81,032	63,433	27.7%	12,419	10,572	68,535	52,802	48	41	30	20

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	496	556	-10.9%	13	17	386	422	9	15	88	103
Connecticut	63	55	15.6%	0	0	63	53	0	NM	0	0
Maine	208	232	-10.4%	0	0	114	120	6	9	88	103
Massachusetts	98	105	-6.4%	0	0	98	105	NM	0	0	0
New Hampshire	87	126	-30.6%	0	8	85	114	NM	3	0	0
Rhode Island	15	16	-6.1%	0	0	15	16	0	0	0	0
Vermont	24	23	4.8%	13	9	NM	NM	NM	NM	0	0
Middle Atlantic	443	470	-5.8%	0	0	352	359	45	46	46	65
New Jersey	83	74	11.6%	0	0	68	60	14	14	0	0
New York	174	186	-6.7%	0	0	146	152	16	19	11	15
Pennsylvania	187	210	-11.1%	0	0	138	147	14	13	34	50
East North Central	445	465	-4.3%	48	38	249	275	18	19	129	133
Illinois	45	48	-7.2%	0	0	45	48	0	0	0	0
Indiana	32	32	-1.1%	25	25	NM	NM	NM	NM	5	5
Michigan	193	201	-4.1%	0	0	126	130	12	17	54	54
Ohio	62	65	-4.7%	0	NM	39	39	0	0	23	26
Wisconsin	113	118	-4.3%	24	13	38	58	5	NM	46	48
West North Central	175	176	-0.7%	43	41	83	86	10	6	39	44
Iowa	21	21	0.7%	NM	2	10	10	NM	NM	6	7
Kansas	7	5	25.8%	0	0	5	5	0	0	NM	0
Minnesota	128	138	-7.7%	30	32	66	69	NM	NM	29	37
Missouri	9	7	28.4%	NM	4	NM	2	3	2	NM	NM
Nebraska	8	5	70.8%	7	4	0	0	NM	NM	0	0
North Dakota	NM	0	--	0	0	0	0	0	0	NM	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,337	1,420	-5.9%	141	99	413	501	30	31	753	790
Delaware	6	6	-7.0%	0	0	5	5	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	335	383	-12.4%	24	8	149	212	3	NM	159	160
Georgia	309	344	-10.4%	0	0	37	56	NM	2	271	286
Maryland	48	47	2.1%	0	0	36	35	NM	NM	9	11
North Carolina	184	183	0.5%	0	0	89	91	5	6	90	86
South Carolina	166	159	4.3%	30	25	23	27	0	0	113	107
Virginia	288	297	-2.9%	87	65	74	75	18	19	110	137
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	473	527	-10.3%	8	7	31	21	0	0	434	499
Alabama	243	278	-12.5%	NM	0	22	12	0	0	220	265
Kentucky	43	40	6.5%	7	7	NM	NM	0	0	35	33
Mississippi	113	129	-12.5%	0	0	NM	NM	0	0	112	128
Tennessee	74	80	-7.2%	0	0	7	7	0	0	67	73
West South Central	461	488	-5.5%	2	4	67	63	4	3	387	418
Arkansas	106	121	-12.6%	0	0	11	7	NM	NM	95	114
Louisiana	203	212	-4.2%	0	0	7	7	0	0	196	205
Oklahoma	25	25	-3.4%	0	0	NM	NM	0	0	23	24
Texas	127	129	-1.3%	2	4	48	48	4	2	73	75
Mountain	95	84	13.6%	NM	2	55	47	0	0	40	34
Arizona	19	15	30.6%	0	2	19	13	0	0	0	0
Colorado	11	9	19.0%	0	0	11	9	0	0	0	0
Idaho	55	50	10.0%	NM	NM	16	16	0	0	39	33
Montana	NM	NM	NM	0	0	0	0	0	0	NM	NM
Nevada	NM	2	NM	0	0	NM	2	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	6	6	1.3%	0	0	6	6	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	707	769	-8.1%	53	61	399	427	66	77	189	204
California	481	524	-8.1%	11	16	358	382	63	74	50	52
Oregon	73	86	-14.8%	5	5	30	34	NM	NM	36	45
Washington	152	159	-4.5%	37	40	11	11	NM	NM	103	107
Pacific Noncontiguous	35	27	27.7%	1	2	0	0	23	20	11	6
Alaska	5	4	29.0%	0	0	0	0	4	4	NM	0
Hawaii	30	23	27.5%	1	2	0	0	19	15	10	6
U.S. Total	4,667	4,983	-6.4%	310	271	2,035	2,200	205	216	2,116	2,297

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

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	2,431	2,546	-4.5%	189	195	1,814	1,764	38	55	390	532
Connecticut	286	247	15.6%	0	0	286	239	0	9	0	0
Maine	1,018	1,171	-13.1%	0	0	601	606	27	33	390	532
Massachusetts	387	387	0.2%	0	0	387	386	NM	NM	0	0
New Hampshire	515	510	1.0%	82	92	423	406	10	12	0	0
Rhode Island	68	73	-7.4%	0	0	68	73	0	0	0	0
Vermont	157	158	-0.6%	106	103	49	54	NM	NM	0	0
Middle Atlantic	1,936	1,897	2.0%	0	0	1,473	1,434	181	184	282	279
New Jersey	327	298	9.5%	0	0	265	239	62	59	0	0
New York	792	773	2.5%	0	0	628	618	67	74	97	81
Pennsylvania	816	825	-1.1%	0	0	580	576	52	51	185	198
East North Central	1,894	1,959	-3.3%	208	165	1,083	1,148	70	74	533	572
Illinois	178	191	-6.7%	0	0	178	191	0	0	0	0
Indiana	126	126	0.6%	99	96	NM	2	5	6	20	21
Michigan	796	854	-6.8%	NM	NM	525	560	46	55	225	239
Ohio	250	269	-7.1%	NM	3	158	155	0	0	91	111
Wisconsin	543	520	4.5%	109	66	219	240	19	13	196	201
West North Central	730	732	-0.2%	175	153	345	348	41	33	169	197
Iowa	82	87	-6.2%	8	8	38	37	12	9	24	32
Kansas	25	22	14.1%	0	0	21	20	0	0	5	NM
Minnesota	543	563	-3.7%	126	115	279	283	8	7	130	158
Missouri	39	34	12.3%	15	15	7	7	15	11	NM	NM
Nebraska	32	20	60.6%	26	15	0	0	6	6	0	0
North Dakota	9	NM	NM	0	0	0	0	0	0	9	NM
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	5,818	5,964	-2.5%	681	526	1,828	2,083	115	123	3,193	3,232
Delaware	24	24	-2.0%	0	0	19	19	0	0	4	5
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,430	1,595	-10.3%	117	34	670	903	13	10	629	648
Georgia	1,383	1,402	-1.4%	0	0	200	211	NM	9	1,180	1,183
Maryland	167	177	-5.7%	0	0	124	121	11	9	32	46
North Carolina	714	763	-6.4%	0	0	364	358	22	24	327	381
South Carolina	751	726	3.4%	138	138	105	114	0	0	508	474
Virginia	1,348	1,276	5.7%	426	354	343	356	66	71	513	495
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	2,065	2,070	-0.2%	31	29	118	109	0	0	1,916	1,932
Alabama	1,069	1,099	-2.7%	NM	NM	85	77	0	0	982	1,021
Kentucky	165	163	1.8%	29	28	NM	NM	0	0	135	133
Mississippi	500	474	5.6%	0	0	4	4	0	0	496	470
Tennessee	330	334	-1.3%	0	0	27	27	0	0	303	308
West South Central	2,007	2,094	-4.1%	2	49	286	284	15	14	1,703	1,747
Arkansas	495	515	-4.0%	0	0	43	36	NM	NM	450	478
Louisiana	873	897	-2.6%	0	0	29	28	0	0	844	869
Oklahoma	105	107	-1.8%	0	0	5	5	0	0	100	102
Texas	534	575	-7.0%	2	49	209	215	14	12	309	299
Mountain	355	343	3.6%	5	9	213	211	0	0	138	123
Arizona	67	74	-9.5%	NM	6	65	67	0	0	0	0
Colorado	47	44	8.0%	0	0	47	44	0	0	0	0
Idaho	202	187	8.1%	NM	3	65	65	0	0	134	119
Montana	NM	NM	NM	0	0	0	0	0	0	NM	NM
Nevada	8	8	2.9%	0	0	8	8	0	0	0	0
New Mexico	4	4	-5.2%	0	0	4	4	0	0	0	0
Utah	23	23	2.4%	0	0	23	23	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,965	3,144	-5.7%	237	245	1,654	1,775	303	327	770	798
California	2,040	2,192	-6.9%	62	71	1,474	1,590	291	314	212	217
Oregon	304	358	-15.2%	21	21	136	141	6	7	141	189
Washington	621	594	4.5%	153	153	44	43	7	6	417	392
Pacific Noncontiguous	136	128	6.0%	11	12	0	0	81	79	44	37
Alaska	21	20	6.5%	0	0	0	0	17	18	4	NM
Hawaii	115	108	5.9%	11	12	0	0	64	61	40	35
U.S. Total	20,336	20,877	-2.6%	1,539	1,384	8,813	9,156	845	888	9,139	9,450

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 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	335	328	2.0%	16	15	319	313	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	NM	NM	NM	0	0	NM	NM	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	286	283	1.1%	0	0	286	283	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	40	36	10.0%	16	15	24	21	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	951	991	-4.0%	49	59	903	932	0	0	0	0
California	936	975	-4.0%	48	59	888	916	0	0	0	0
Oregon	16	16	-2.1%	NM	0	15	16	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	19	19	-1.9%	0	0	19	19	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	19	19	-1.9%	0	0	19	19	0	0	0	0
U.S. Total	1,305	1,338	-2.5%	64	75	1,240	1,263	0	0	0	0

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

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 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	1,429	1,341	6.5%	84	80	1,344	1,261	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	32	33	-1.3%	0	0	32	33	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	1,208	1,135	6.5%	0	0	1,208	1,135	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	184	169	8.6%	84	80	99	89	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	4,007	4,201	-4.6%	261	263	3,746	3,937	0	0	0	0
California	3,933	4,131	-4.8%	256	263	3,677	3,867	0	0	0	0
Oregon	74	70	5.5%	NM	0	68	70	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	76	73	4.0%	0	0	76	73	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	76	73	4.0%	0	0	76	73	0	0	0	0
U.S. Total	5,512	5,615	-1.8%	346	344	5,166	5,272	0	0	0	0

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

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, April 2016 and 2015 (Thousand Megawatthours)

	All Sectors							Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
								Electric Utilities		Independent Power Producers															
	Estimated Net Generation From Utility Scale Facilities and Distributed Solar Photovoltaic Generation			Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Net Generation From Utility Scale Facilities and Distributed Solar		Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Estimated Net Generation From Utility Scale Facilities and Distributed Solar		Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Estimated Distributed Solar Photovoltaic Generation	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	192	167	15.5%	71	80	121	86	NM	NM	68	78	NM	NM	NM	NM	67	56	5	4	0	0	5	4	50	27
Connecticut	NM	16	NM	NM	NM	24	14	NM	0	NM	NM	10	7	0	0	10	7	1	1	0	0	1	1	13	7
Maine	2	1	66.2%	0	0	2	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	1
Massachusetts	144	133	8.2%	62	70	81	63	NM	NM	60	67	NM	NM	NM	NM	51	45	3	3	0	0	3	3	27	14
New Hampshire	4	2	123.6%	0	0	4	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	3	1
Rhode Island	NM	3	NM	NM	NM	2	1	0	0	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	1	0
Vermont	14	12	15.1%	5	7	8	5	0	0	5	7	3	2	0	0	3	2	0	0	0	0	0	0	5	3
Middle Atlantic	304	276	10.0%	85	104	218	172	9	10	61	74	132	124	14	19	119	106	NM	NM	NM	NM	13	11	87	55
New Jersey	192	192	-0.1%	67	85	125	108	9	10	45	57	95	95	13	18	82	77	NM	NM	NM	NM	7	6	36	25
New York	82	54	52.7%	12	10	70	44	0	0	11	10	NM	NM	NM	NM	27	20	1	1	0	0	1	1	43	23
Pennsylvania	29	30	-1.6%	6	9	23	21	0	0	5	7	NM	NM	NM	NM	10	9	NM	NM	NM	NM	5	5	9	7
East North Central	60	54	11.5%	39	36	22	18	6	NM	32	33	NM	NM	NM	NM	15	13	NM	NM	NM	NM	1	1	6	4
Illinois	8	9	-10.3%	5	7	3	2	NM	NM	5	6	2	2	0	0	2	2	NM	NM	0	0	NM	NM	1	1
Indiana	27	22	20.1%	25	21	2	1	NM	NM	21	20	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	0
Michigan	NM	4	NM	NM	NM	4	4	NM	NM	0	0	3	3	0	0	3	3	0	0	0	0	0	0	1	1
Ohio	16	16	2.8%	7	8	9	8	NM	NM	5	6	NM	NM	NM	NM	7	6	NM	NM	NM	NM	1	1	2	1
Wisconsin	NM	3	NM	NM	NM	3	3	0	0	NM	NM	2	2	0	0	2	2	NM	NM	0	0	NM	NM	1	1
West North Central	NM	22	NM	NM	NM	24	20	0	0	NM	NM	NM	12	NM	0	13	12	0	0	0	0	0	0	10	8
Iowa	4	3	24.7%	0	0	4	3	0	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	1	1
Kansas	NM	1	NM	NM	NM	1	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Minnesota	NM	3	NM	NM	NM	3	3	0	0	NM	NM	2	1	0	0	2	1	0	0	0	0	0	0	1	1
Missouri	NM	15	NM	NM	NM	15	13	0	0	NM	NM	NM	8	NM	0	9	8	0	0	0	0	0	0	7	5
Nebraska	NM	0	NM	0	0	NM	0	0	0	0	0	NM	0	0	0	NM	0	0	NM	0	0	0	NM	NM	0
North Dakota	0	0	0.4%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	0	0	17.9%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	517	276	87.3%	414	210	102	66	34	11	369	189	66	53	12	10	54	43	5	2	0	0	5	2	44	21
Delaware	13	12	7.9%	5	6	8	6	NM	NM	4	5	NM	NM	NM	NM	5	4	0	0	0	0	0	0	3	2
District of Columbia	4	2	40.4%	0	0	4	2	0	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	1	1
Florida	34	28	23.0%	14	14	20	14	7	6	7	7	NM	NM	NM	NM	10	8	0	0	0	0	0	0	10	6
Georgia	66	21	207.9%	57	13	9	8	7	NM	50	12	NM	NM	NM	NM	NM	7	NM	0	0	0	NM	0	1	0
Maryland	61	37	66.5%	15	13	46	23	NM	NM	14	11	NM	NM	NM	NM	20	14	3	1	0	0	3	1	22	9
North Carolina	332	171	93.6%	322	163	10	9	17	NM	293	153	18	16	11	9	7	7	0	0	0	0	0	0	3	1
South Carolina	NM	1	NM	NM	NM	2	1	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Virginia	NM	2	NM	NM	0	4	2	NM	0	0	0	2	1	0	0	2	1	NM	0	0	0	NM	0	2	1
West Virginia	1	0	33.9%	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	16	18	-10.4%	9	11	8	7	0	0	9	10	NM	NM	NM	NM	7	7	0	0	0	0	0	0	0	0
Alabama	0	0	3.3%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kentucky	1	1	14.1%	0	0	1	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Mississippi	0	0	-16.1%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	14	17	-12.4%	9	11	6	6	0	0	9	10	NM	NM	NM	NM	6	6	0	0	0	0	0	0	0	0
West South Central	104	65	60.7%	59	34	45	30	1	0	58	34	NM	NM	NM	NM	10	9	0	0	0	0	0	0	34	22
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	13	42.7%	0	0	19	13	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	18	13
Oklahoma	1	0	217.6%	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Texas	81	51	59.9%	56	34	25	16	0	0	56	34	NM	NM	NM	NM	9	8	0	0	0	0	0	0	16	9
Mountain	835	697	19.8%	613	524	222	173	76	68	526	447	88	80	10	9	77	71	NM	NM	NM	NM	15	13	130	89
Arizona	409	381	7.5%	283	274	126	107	50	53	232	219	43	42	2	2	41	40	13	11	0	0	13	11	72	56
Colorado	79	65	22.2%	38	28	41	37	0	0	37	26	NM	19	NM	2	18	17	0	0	0	0	0	0	23	19
Idaho	1	1	56.8%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Montana	1	1	34.3%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nevada	217	165	31.4%	190	155	27	11	NM	0	180	150	14	9	7	5	7	4	NM	NM	NM	NM	2	1	18	5
New Mexico	83	78	6.3%	68	66	15	12	23	15	45	50	7	7	0	0	7	7	0	0	0	0	0	0	8	6
Utah	44	6	597.5%	33	NM	11	5	0	0	33	NM	4	2	0	0	4	2	1	0	0	0	1	0	7	3
Wyoming	NM	0	NM	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	0
Pacific Contiguous	2,029	1,653	22.8%	1,406	1,185	623	468	49	58	1,345	1,112	150	139	12	14	138	125	NM	NM	NM	NM	97	77	387	266
California	2,006	1,636	22.6%	1,402	1,182	604	454	48	57	1,342	1,110	144	134	12	14	132	120	NM	NM	NM	NM	97	76	374	257
Oregon	15	12	22.8%	4	3	11	9	NM	NM	NM	NM	4	4	0	0	4	4	0	0	0	0	0	0	6	4
Washington	8	5	66.5%	0	0	8	5	0	0	0	0	1	1	0	0	1	1	0	NM	0	0	0	NM	7	4
Pacific Noncontiguous	71	60	17.4%	8	7	62	53	NM	NM	3	4	22	21	0	0	22	21	0	0	0	0	0	0	40	32
Alaska	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	71	60	17.4%	8	7	62	53	NM	NM	3	4	22	21	0	0	22	21	0	0	0	0	0	0	40	32
U.S. Total	4,155	3,287	26.4%	2,708	2,194	1,447	1,094	181	153	2,475	1,983	573	516	50	54	523	462	NM	110	NM	3	136	107	788	524

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

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

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

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

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

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

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

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

	All Sectors							Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
								Electric Utilities		Independent Power Producers															
	Estimated Net Generation From Utility Scale Facilities and Distributed Solar Photovoltaic Generation			Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Net Generation From Utility Scale Facilities and Distributed Solar		Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Estimated Net Generation From Utility Scale Facilities and Distributed Solar		Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Estimated Distributed Solar Photovoltaic Generation	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	615	499	23.2%	248	237	367	262	6	6	239	229	216	178	NM	NM	214	176	15	12	0	0	15	12	138	75
Connecticut	80	49	63.1%	7	7	73	42	NM	0	6	7	30	21	0	0	30	21	4	2	0	0	4	2	39	19
Maine	7	4	68.5%	0	0	7	4	0	0	0	0	2	1	0	0	2	1	0	0	0	0	0	0	5	3
Massachusetts	463	398	16.1%	217	206	246	193	6	6	209	198	169	146	NM	NM	166	145	10	9	0	0	10	9	69	39
New Hampshire	12	5	114.3%	0	0	12	5	0	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	8	4
Rhode Island	10	8	26.4%	4	4	5	4	0	0	4	4	4	3	0	0	4	3	0	0	0	0	0	0	2	1
Vermont	44	34	27.3%	19	20	24	14	0	0	19	20	8	4	0	0	8	4	0	0	0	0	0	0	16	9
Middle Atlantic	987	841	17.3%	316	304	672	537	34	29	225	216	436	393	53	55	383	338	46	41	4	4	42	37	246	162
New Jersey	648	595	8.9%	252	249	395	346	34	29	167	167	320	303	50	52	270	250	24	20	NM	NM	23	20	102	76
New York	240	153	56.2%	38	30	202	124	0	0	37	29	82	61	NM	NM	82	61	4	2	0	0	4	2	117	62
Pennsylvania	100	93	7.2%	25	26	74	67	0	0	20	21	33	29	NM	NM	31	27	19	19	3	3	16	15	27	24
East North Central	197	159	24.0%	134	106	63	53	20	6	111	98	45	39	NM	NM	44	38	4	3	NM	NM	2	2	17	12
Illinois	28	26	5.6%	19	19	8	7	NM	NM	18	19	6	5	0	0	6	5	0	0	0	0	0	0	3	2
Indiana	91	67	35.9%	85	63	5	3	12	NM	73	61	3	2	0	0	3	2	0	0	0	0	0	0	2	1
Michigan	16	11	38.7%	NM	NM	12	11	NM	NM	0	0	9	8	0	0	9	8	0	0	0	0	0	0	4	3
Ohio	53	46	14.3%	25	23	28	23	4	4	20	17	22	19	NM	NM	21	18	3	3	NM	NM	2	2	5	3
Wisconsin	10	8	20.4%	NM	NM	10	8	0	0	NM	NM	5	5	0	0	5	5	0	0	0	0	0	0	4	3
West North Central	85	68	24.4%	11	7	74	61	0	0	11	7	43	36	NM	0	42	36	1	1	0	0	1	1	31	24
Iowa	13	10	27.9%	0	0	13	10	0	0	0	0	8	6	0	0	8	6	0	0	0	0	0	0	4	3
Kansas	3	2	33.3%	NM	NM	2	1	0	0	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Minnesota	12	8	48.1%	NM	NM	9	7	0	0	NM	NM	4	4	0	0	4	4	1	0	0	0	1	0	4	3
Missouri	58	48	19.5%	8	6	50	42	0	0	7	6	29	25	NM	0	28	25	0	0	0	0	0	0	21	17
Nebraska	1	0	33.2%	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	0	0	-2.9%	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	15.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	1,670	832	100.6%	1,359	623	311	209	120	34	1,197	558	217	172	42	31	175	141	14	5	0	0	14	5	122	63
Delaware	43	38	12.5%	19	18	24	20	NM	NM	16	15	16	15	NM	NM	15	14	1	1	0	0	1	1	8	5
District of Columbia	10	8	24.2%	0	0	10	8	0	0	0	0	7	6	0	0	7	6	0	0	0	0	0	0	3	2
Florida	116	90	29.1%	50	44	66	46	24	22	26	21	33	26	NM	NM	32	26	2	1	0	0	2	1	32	20
Georgia	212	70	204.9%	183	43	29	27	23	NM	159	37	27	26	NM	NM	26	25	1	0	0	0	1	0	3	1
Maryland	178	107	66.3%	50	37	128	70	3	3	45	32	65	46	NM	NM	63	44	9	2	0	0	9	2	56	24
North Carolina	1,089	507	115.0%	1,054	480	35	26	66	NM	950	451	63	48	38	27	25	21	1	1	0	0	1	1	9	5
South Carolina	7	3	91.3%	NM	NM	5	2	0	0	NM	NM	1	0	0	0	1	0	0	0	0	0	0	0	3	1
Virginia	13	8	62.8%	NM	0	12	8	NM	0	0	0	5	4	0	0	5	4	0	0	0	0	0	0	7	4
West Virginia	2	1	29.0%	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
East South Central	55	56	-2.2%	31	32	24	24	0	0	29	31	24	24	NM	NM	23	23	0	0	0	0	0	0	1	1
Alabama	1	1	3.7%	0	0	1	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Kentucky	4	4	12.7%	0	0	4	4	0	0	0	0	4	3	0	0	4	3	0	0	0	0	0	0	1	1
Mississippi	1	1	-12.2%	0	0	1	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
Tennessee	49	51	-3.4%	31	32	18	18	0	0	29	31	19	19	NM	NM	18	18	0	0	0	0	0	0	0	0
West South Central	361	206	75.3%	218	110	143	96	2	0	216	109	36	28	NM	NM	35	27	0	0	0	0	0	0	108	69
Arkansas	10	2	561.5%	8	0	2	2	0	0	8	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Louisiana	59	41	44.5%	0	0	59	41	0	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	57	40
Oklahoma	3	1	222.8%	2	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Texas	289	163	77.7%	208	110	80	53	0	0	207	109	32	25	NM	NM	31	24	0	0	0	0	0	0	49	28
Mountain	2,782	2,191	27.0%	2,048	1,632	735	559	243	206	1,768	1,399	300	262	36	26	264	236	55	45	NM	NM	54	44	417	279
Arizona	1,379	1,206	14.3%	958	861	421	345	161	162	790	692	149	139	7	7	142	132	45	37	0	0	45	37	235	176
Colorado	268	204	31.5%	130	87	138	117	0	0	125	81	66	63	5	5	61	58	1	1	0	0	1	1	76	59
Idaho	2	1	59.3%	0	0	2	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Montana	3	2	34.2%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Nevada	708	517	37.0%	624	484	84	33	10	0	589	470	47	28	24	13	24	15	7	5	NM	NM	6	4	54	14
New Mexico	276	242	14.4%	224	199	52	43	71	45	153	154	25	23	0	0	25	23	0	0	0	0	0	0	27	20
Utah	145	18	692.8%	112	NM	33	16	0	0	112	NM	11	7	0	0	11	7	2	1	0	0	2	1	20	8
Wyoming	1	1	35.8%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Pacific Contiguous	6,400	5,133	24.7%	4,422	3,697	1,979	1,436	167	170	4,211	3,487	531	432	40	38	491	393	303	244	NM	NM	300	241	1,188	802
California	6,337	5,086	24.6%	4,407	3,687	1,929	1,399	164	167	4,199	3,479	516	417	40	38	476	379	302	243	NM	NM	298	240	1,155	780
Oregon	43	35	23.0%	14	10	29	25	NM	NM	12	8	12	12	0	0	12	12	1	1	0	0	1	1	15	12
Washington	21	12	69.2%	0	0	21	12	0	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	18	10
Pacific Noncontiguous	254	205	23.5%	28	21	225	184	17	9	12	12	80	72	0	0	80	72	1	0	0	0	1	0	145	112
Alaska	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	254	205	23.5%	28	21	225	184	17	9	12	12	80	72	0	0	80	72	1	0	0	0	1	0	145	112
U.S. Total	13,407	10,192	31.5%	8,814	6,772	4,593	3,420	608	461	8,020	6,147	1,928	1,636	177	155	1,751	1,480	437	350	9	9	429	342	2,413	1,598

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

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

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 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	11	10	16.2%	11	10	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	11	10	16.2%	11	10	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	68	96	-29.3%	0	0	68	96	0	0	0	0
Arizona	57	82	-30.3%	0	0	57	82	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	11	14	-23.4%	0	0	11	14	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	194	268	-27.5%	0	0	194	268	0	0	0	0
California	194	268	-27.5%	0	0	194	268	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	273	374	-26.8%	11	10	262	364	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 April 2016 and 2015 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 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	25	24	4.6%	25	24	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	25	24	4.6%	25	24	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	226	206	9.8%	0	0	226	206	0	0	0	0
Arizona	180	173	3.6%	0	0	180	173	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	46	32	42.9%	0	0	46	32	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	607	657	-7.6%	0	0	607	657	0	0	0	0
California	607	657	-7.6%	0	0	607	657	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	858	887	-3.3%	25	24	833	863	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-April 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	1,030,556	753,390	269,412	347	7,408
2007	1,046,795	764,765	276,581	361	5,089
2008	1,042,335	760,326	276,565	369	5,075
2009	934,683	695,615	234,077	317	4,674
2010	979,684	721,431	249,814	314	8,125
2011	934,938	689,316	239,541	347	5,735
2012	825,734	615,467	205,295	307	4,665
2013	860,729	638,327	217,219	513	4,670
2014	853,634	624,235	224,568	202	4,629
2015	740,855	548,490	188,032	163	4,169
Year 2014					
January	83,647	61,084	22,129	27	407
February	76,160	55,073	20,699	27	362
March	72,124	51,559	20,147	22	396
April	58,065	41,151	16,541	16	357
May	64,033	47,114	16,521	12	385
June	74,328	55,542	18,365	15	406
July	81,495	60,238	20,821	16	420
August	81,074	60,222	20,422	14	417
Sept	69,127	50,728	17,998	12	389
October	61,129	44,987	15,772	11	359
November	64,651	46,561	17,720	14	356
December	67,799	49,976	17,434	16	373
Year 2015					
January	71,302	51,530	19,403	17	351
February	67,056	48,594	18,098	19	345
March	58,308	43,019	14,908	17	363
April	48,549	36,829	11,431	11	278
May	57,217	43,540	13,343	12	321
June	69,166	51,328	17,451	14	373
July	76,833	57,032	19,390	15	396
August	74,067	54,796	18,852	12	406
Sept	65,008	47,582	17,043	11	372
October	53,985	39,774	13,856	11	344
November	49,173	36,122	12,733	11	306
December	50,191	38,342	11,523	12	313
Year 2016					
January	62,151	46,090	15,729	13	319
February	50,649	38,053	12,285	14	297
March	39,923	31,511	8,089	14	309
April	39,064	28,973	9,825	10	256
Year to Date					
2014	289,996	208,866	79,516	92	1,522
2015	245,215	179,973	63,840	64	1,337
2016	191,788	144,627	45,928	51	1,182
Rolling 12 Months Ending in April					
2015	808,853	595,342	208,893	174	4,444
2016	687,427	513,144	170,119	151	4,013

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-April 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	23,227	0	3,834	1,539	17,854
2007	22,810	0	3,795	1,566	17,449
2008	22,168	0	3,689	1,652	16,827
2009	20,507	0	3,935	1,481	15,091
2010	21,727	0	3,808	1,406	16,513
2011	21,532	0	3,628	1,321	16,584
2012	19,333	0	2,790	1,143	15,400
2013	18,350	0	2,416	843	15,090
2014	18,107	978	1,821	861	14,448
2015	17,723	1,233	1,933	697	13,859
Year 2014					
January	1,773	114	171	105	1,384
February	1,641	97	167	105	1,271
March	1,722	95	199	96	1,332
April	1,425	81	162	66	1,115
May	1,450	81	146	59	1,164
June	1,413	63	153	63	1,134
July	1,466	78	150	70	1,169
August	1,451	70	149	58	1,175
Sept	1,355	70	121	52	1,113
October	1,359	66	122	47	1,123
November	1,480	76	138	68	1,198
December	1,573	86	142	74	1,271
Year 2015					
January	1,669	91	176	79	1,325
February	1,454	85	150	72	1,146
March	1,543	86	163	71	1,223
April	1,374	68	137	53	1,116
May	1,420	76	172	50	1,123
June	1,374	87	173	50	1,064
July	1,494	83	190	53	1,168
August	1,448	72	171	51	1,154
Sept	1,396	73	172	46	1,105
October	1,283	77	128	50	1,028
November	1,752	344	149	59	1,200
December	1,517	91	154	64	1,207
Year 2016					
January	1,516	90	140	66	1,220
February	1,396	81	106	67	1,141
March	1,362	86	137	64	1,076
April	1,112	73	171	41	828
Year to Date					
2014	6,561	388	699	371	5,102
2015	6,040	330	625	274	4,810
2016	5,386	330	554	238	4,264
Rolling 12 Months Ending in April					
2015	17,586	920	1,747	764	14,155
2016	17,070	1,233	1,862	661	13,314

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.
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-April 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	1,053,783	753,390	273,246	1,886	25,262
2007	1,069,606	764,765	280,377	1,927	22,537
2008	1,064,503	760,326	280,254	2,021	21,902
2009	955,190	695,615	238,012	1,798	19,766
2010	1,001,411	721,431	253,621	1,720	24,638
2011	956,470	689,316	243,168	1,668	22,319
2012	845,066	615,467	208,085	1,450	20,065
2013	879,078	638,327	219,635	1,356	19,761
2014	871,741	625,212	226,389	1,063	19,076
2015	758,578	549,724	189,966	861	18,028
Year 2014					
January	85,420	61,198	22,300	132	1,791
February	77,801	55,170	20,866	131	1,633
March	73,846	51,654	20,346	118	1,729
April	59,489	41,232	16,703	82	1,472
May	65,483	47,195	16,667	72	1,549
June	75,741	55,606	18,518	78	1,540
July	82,961	60,316	20,970	85	1,589
August	82,526	60,292	20,571	72	1,591
Sept	70,482	50,798	18,118	64	1,502
October	62,488	45,053	15,895	58	1,482
November	66,131	46,637	17,858	82	1,554
December	69,372	50,062	17,576	90	1,644
Year 2015					
January	72,972	51,621	19,579	96	1,676
February	68,510	48,679	18,248	91	1,491
March	59,851	43,106	15,071	88	1,586
April	49,922	36,897	11,567	64	1,394
May	58,637	43,616	13,514	62	1,444
June	70,540	51,415	17,624	64	1,437
July	78,327	57,115	19,580	68	1,565
August	75,514	54,868	19,023	63	1,560
Sept	66,404	47,655	17,215	58	1,477
October	55,268	39,851	13,984	61	1,372
November	50,925	36,466	12,882	70	1,507
December	51,707	38,433	11,678	77	1,520
Year 2016					
January	63,667	46,180	15,869	79	1,539
February	52,045	38,134	12,391	81	1,438
March	41,286	31,597	8,226	78	1,385
April	40,176	29,045	9,996	51	1,084
Year to Date					
2014	296,557	209,254	80,216	463	6,625
2015	251,255	180,304	64,466	339	6,147
2016	197,174	144,957	46,482	289	5,446
Rolling 12 Months Ending in April					
2015	826,439	596,262	210,639	939	18,599
2016	704,497	514,377	171,982	811	17,327

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	73,821	53,529	17,179	327	2,786
2007	82,433	56,910	22,793	250	2,480
2008	53,846	38,995	13,152	160	1,538
2009	43,562	31,847	9,880	184	1,652
2010	40,103	30,806	8,278	164	855
2011	27,326	20,844	5,633	133	716
2012	22,604	17,521	4,110	272	702
2013	23,231	16,827	5,494	328	582
2014	31,531	19,652	10,689	451	739
2015	29,545	19,071	9,319	391	763
Year 2014					
January	10,190	4,468	5,487	112	122
February	3,117	1,879	1,099	58	81
March	3,476	1,917	1,443	43	72
April	1,556	1,283	200	31	42
May	1,647	1,296	274	22	56
June	1,502	1,179	246	27	50
July	1,696	1,308	311	24	53
August	1,751	1,310	372	23	45
Sept	1,645	1,296	274	24	50
October	1,550	1,218	251	28	53
November	1,681	1,230	362	28	60
December	1,721	1,268	368	30	54
Year 2015					
January	3,356	2,097	1,120	55	85
February	8,725	3,668	4,774	164	119
March	1,828	1,261	471	25	72
April	1,550	1,248	229	17	57
May	1,740	1,274	375	20	70
June	1,773	1,409	286	20	57
July	2,041	1,540	423	24	54
August	1,861	1,453	337	22	49
Sept	1,719	1,265	392	16	45
October	1,555	1,234	268	9	44
November	1,760	1,389	306	8	57
December	1,637	1,233	339	11	55
Year 2016					
January	2,380	1,713	592	11	64
February	2,129	1,435	629	14	NM
March	1,389	1,073	275	NM	34
April	1,335	1,042	252	10	32
Year to Date					
2014	18,339	9,547	8,230	244	318
2015	15,460	8,273	6,593	260	333
2016	7,234	5,263	1,748	42	181
Rolling 12 Months Ending in April					
2015	28,652	18,378	9,053	468	754
2016	21,319	16,061	4,474	NM	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.B. Petroleum Liquids: Consumption for Useful Thermal Output, by Sector, 2006-April 2016 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	14,077	0	1,153	559	12,365
2007	13,462	0	1,303	441	11,718
2008	7,533	0	1,311	461	5,762
2009	8,128	0	1,301	293	6,534
2010	4,866	0	1,086	212	3,567
2011	3,826	0	1,004	168	2,654
2012	3,097	0	992	122	1,984
2013	3,456	0	1,050	498	1,908
2014	3,099	64	1,170	216	1,650
2015	3,081	64	1,223	184	1,610
Year 2014					
January	643	45	189	115	294
February	336	5	88	44	199
March	301	7	101	27	165
April	203	0	86	4	114
May	211	1	89	5	116
June	208	1	90	3	114
July	195	1	93	4	97
August	201	1	108	3	89
Sept	173	1	62	2	109
October	208	0	92	2	114
November	220	0	90	4	125
December	200	1	80	4	114
Year 2015					
January	329	9	109	26	185
February	551	46	205	61	238
March	242	1	90	12	139
April	207	0	83	7	116
May	215	0	86	10	119
June	215	1	83	10	121
July	219	1	98	12	109
August	201	1	92	10	98
Sept	240	1	94	9	136
October	220	2	101	8	108
November	226	1	89	9	128
December	216	1	94	10	112
Year 2016					
January	242	4	87	18	133
February	219	7	72	16	NM
March	180	0	91	NM	80
April	189	1	82	11	95
Year to Date					
2014	1,483	58	464	190	771
2015	1,328	56	486	107	679
2016	829	13	332	54	430
Rolling 12 Months Ending in April					
2015	2,944	63	1,192	132	1,558
2016	2,582	20	1,069	NM	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-April 2016 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	87,898	53,529	18,332	886	15,150
2007	95,895	56,910	24,097	691	14,198
2008	61,379	38,995	14,463	621	7,300
2009	51,690	31,847	11,181	477	8,185
2010	44,968	30,806	9,364	376	4,422
2011	31,152	20,844	6,637	301	3,370
2012	25,702	17,521	5,102	394	2,685
2013	26,687	16,827	6,544	826	2,490
2014	34,630	19,716	11,859	667	2,389
2015	32,626	19,135	10,543	575	2,373
Year 2014					
January	10,833	4,513	5,677	227	416
February	3,453	1,885	1,187	101	280
March	3,776	1,924	1,545	70	237
April	1,760	1,283	286	35	156
May	1,858	1,296	363	27	172
June	1,711	1,180	336	30	164
July	1,890	1,309	404	28	150
August	1,952	1,311	481	26	134
Sept	1,818	1,297	336	26	159
October	1,758	1,219	343	30	166
November	1,900	1,230	453	32	186
December	1,921	1,269	449	34	169
Year 2015					
January	3,685	2,105	1,229	81	271
February	9,276	3,715	4,979	225	357
March	2,070	1,262	561	37	211
April	1,757	1,248	311	24	173
May	1,954	1,274	461	30	189
June	1,988	1,410	369	30	179
July	2,260	1,540	521	36	163
August	2,062	1,454	429	32	147
Sept	1,959	1,266	487	25	182
October	1,774	1,236	369	17	152
November	1,986	1,390	394	17	185
December	1,854	1,234	432	21	166
Year 2016					
January	2,623	1,717	680	29	197
February	2,348	1,443	701	30	NM
March	1,569	1,074	367	NM	114
April	1,524	1,043	333	21	127
Year to Date					
2014	19,822	9,605	8,694	434	1,089
2015	16,788	8,330	7,080	367	1,011
2016	8,063	5,276	2,080	95	611
Rolling 12 Months Ending in April					
2015	31,596	18,441	10,244	600	2,311
2016	23,901	16,081	5,543	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-April 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	7,363	3,619	3,286	1	456
2007	6,036	2,808	2,715	2	512
2008	5,417	2,296	2,704	1	416
2009	4,821	2,761	1,724	1	335
2010	4,994	3,325	1,354	2	313
2011	5,012	3,449	1,277	1	286
2012	3,675	2,105	756	1	812
2013	4,852	3,409	779	1	662
2014	4,412	3,440	599	2	371
2015	4,088	3,119	672	2	295
Year 2014					
January	436	349	55	0	32
February	361	275	56	0	30
March	421	332	57	0	31
April	303	212	55	0	36
May	393	314	49	0	30
June	418	339	46	0	33
July	385	299	54	0	33
August	382	298	51	0	33
Sept	372	281	62	0	29
October	230	178	23	0	29
November	288	228	33	0	27
December	424	335	60	0	29
Year 2015					
January	400	312	57	0	30
February	419	332	57	0	31
March	278	195	60	0	23
April	301	213	59	0	29
May	343	260	59	0	23
June	305	233	55	0	17
July	421	333	59	0	28
August	397	311	59	0	27
Sept	381	294	61	0	26
October	312	231	57	0	24
November	253	174	62	0	NM
December	278	230	26	0	21
Year 2016					
January	346	302	17	0	27
February	331	272	39	0	19
March	369	283	63	0	23
April	396	326	43	0	27
Year to Date					
2014	1,520	1,168	223	1	129
2015	1,397	1,051	232	1	112
2016	1,442	1,182	163	1	96
Rolling 12 Months Ending in April					
2015	4,289	3,324	609	2	355
2016	4,132	3,249	602	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.
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.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2006-April 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	1,259	0	195	9	1,055
2007	1,262	0	162	11	1,090
2008	897	0	119	9	769
2009	1,007	0	126	8	873
2010	1,059	0	98	11	950
2011	1,080	0	112	6	962
2012	1,346	0	113	11	1,222
2013	1,486	0	96	11	1,379
2014	1,283	3	90	16	1,174
2015	1,362	9	110	16	1,227
Year 2014					
January	105	0	9	2	95
February	93	1	7	1	84
March	106	0	8	2	96
April	116	0	9	2	105
May	110	0	8	1	102
June	109	0	0	0	109
July	114	0	5	0	109
August	112	0	9	2	101
Sept	113	0	9	2	102
October	86	0	9	1	75
November	104	1	9	2	92
December	114	0	9	2	103
Year 2015					
January	140	0	10	2	128
February	135	1	9	2	124
March	147	1	9	2	136
April	120	1	9	1	108
May	101	1	10	0	90
June	116	2	9	0	106
July	104	1	9	0	94
August	104	0	9	2	94
Sept	107	0	8	2	97
October	83	1	8	2	72
November	117	3	10	2	NM
December	87	0	10	1	75
Year 2016					
January	83	0	10	2	70
February	100	0	9	2	88
March	109	0	10	2	97
April	71	0	6	0	64
Year to Date					
2014	419	1	32	6	380
2015	543	2	37	8	496
2016	363	1	36	6	320
Rolling 12 Months Ending in April					
2015	1,406	4	94	18	1,290
2016	1,183	9	109	15	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.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-April 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	8,622	3,619	3,482	10	1,511
2007	7,299	2,808	2,877	12	1,602
2008	6,314	2,296	2,823	10	1,184
2009	5,828	2,761	1,850	9	1,209
2010	6,053	3,325	1,452	12	1,264
2011	6,092	3,449	1,388	6	1,248
2012	5,021	2,105	869	13	2,034
2013	6,338	3,409	875	12	2,041
2014	5,695	3,443	689	18	1,545
2015	5,450	3,128	781	18	1,522
Year 2014					
January	541	349	63	2	127
February	454	276	63	2	113
March	527	332	65	2	128
April	418	212	64	2	141
May	504	314	57	1	132
June	527	339	46	0	141
July	499	299	58	0	142
August	494	298	59	2	134
Sept	485	281	70	2	131
October	316	178	32	2	104
November	393	229	42	2	120
December	538	335	69	2	132
Year 2015					
January	540	313	67	3	158
February	555	332	65	2	155
March	425	196	69	2	159
April	420	213	68	2	137
May	444	261	69	0	113
June	422	235	64	0	123
July	525	334	68	0	123
August	501	311	68	2	121
Sept	488	294	70	2	122
October	396	232	66	2	96
November	370	177	72	2	NM
December	365	230	37	2	96
Year 2016					
January	429	302	27	3	98
February	431	272	49	2	108
March	478	283	74	2	119
April	467	326	50	0	91
Year to Date					
2014	1,940	1,169	255	7	509
2015	1,940	1,054	269	9	608
2016	1,805	1,183	199	7	416
Rolling 12 Months Ending in April					
2015	5,695	3,328	703	20	1,644
2016	5,315	3,258	711	17	NM

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

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	6,461,615	2,478,396	3,412,826	34,623	535,770
2007	7,089,342	2,736,418	3,765,194	34,087	553,643
2008	6,895,843	2,730,134	3,612,197	33,403	520,109
2009	7,121,069	2,911,279	3,655,712	34,279	519,799
2010	7,680,185	3,290,993	3,794,423	39,462	555,307
2011	7,883,865	3,446,087	3,819,107	47,170	571,501
2012	9,484,710	4,101,927	4,686,260	63,116	633,407
2013	8,596,299	3,970,447	3,917,131	66,570	642,152
2014	8,544,387	3,895,008	3,954,032	71,957	623,390
2015	10,048,346	4,733,041	4,624,104	73,547	617,654
Year 2014					
January	694,661	324,657	309,522	6,411	54,071
February	579,819	265,645	261,103	5,180	47,892
March	591,101	271,638	263,442	5,292	50,729
April	579,336	270,132	256,256	4,967	47,981
May	680,193	323,448	300,470	5,761	50,513
June	754,126	348,327	349,049	6,119	50,630
July	880,805	393,011	425,395	6,966	55,433
August	935,170	426,346	445,556	7,430	55,839
Sept	805,960	355,962	391,332	6,396	52,270
October	736,039	323,456	356,020	5,939	50,625
November	633,279	288,760	287,096	5,496	51,927
December	673,898	303,627	308,792	5,999	55,480
Year 2015					
January	747,937	342,461	344,326	6,033	55,117
February	677,621	326,498	299,026	5,199	46,898
March	736,005	346,153	335,668	6,169	48,015
April	694,463	328,898	314,913	5,271	45,382
May	768,905	358,129	355,250	6,174	49,353
June	926,723	446,829	421,584	6,182	52,128
July	1,088,254	511,438	514,942	6,765	55,110
August	1,069,342	498,759	508,301	6,936	55,346
Sept	933,818	434,832	440,230	6,418	52,339
October	827,292	383,229	388,757	6,080	49,227
November	770,211	365,775	345,943	6,088	52,403
December	807,773	390,040	355,164	6,233	56,336
Year 2016					
January	808,418	388,873	360,075	6,291	53,178
February	722,190	352,524	314,536	5,583	49,547
March	772,107	379,420	334,202	6,005	52,479
April	757,330	368,386	333,568	5,277	50,098
Year to Date					
2014	2,444,917	1,132,072	1,090,323	21,850	200,673
2015	2,856,027	1,344,010	1,293,933	22,672	195,412
2016	3,060,044	1,489,204	1,342,381	23,157	205,302
Rolling 12 Months Ending in April					
2015	8,955,497	4,106,946	4,157,642	72,779	618,129
2016	10,252,363	4,878,234	4,672,552	74,032	627,544

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-April 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	942,817	0	330,878	33,112	578,828
2007	872,579	0	339,796	35,987	496,796
2008	793,537	0	326,048	32,813	434,676
2009	816,787	0	305,542	41,275	469,970
2010	821,775	0	301,769	46,324	473,683
2011	839,681	0	308,669	39,856	491,155
2012	886,103	0	322,607	47,883	515,613
2013	882,385	0	303,177	51,057	528,151
2014	865,146	4,926	292,016	46,635	521,569
2015	919,958	8,525	305,425	53,462	552,546
Year 2014					
January	87,362	527	28,175	7,205	51,455
February	68,875	539	23,822	3,527	40,988
March	72,690	476	25,252	3,245	43,717
April	67,023	286	22,224	3,085	41,428
May	67,861	224	22,787	3,272	41,578
June	67,490	274	23,101	3,460	40,656
July	72,370	267	24,630	3,749	43,724
August	74,882	441	25,464	4,031	44,946
Sept	69,772	367	23,285	3,731	42,390
October	71,722	431	23,484	3,776	44,032
November	70,483	534	24,002	3,672	42,274
December	74,615	561	25,790	3,883	44,381
Year 2015					
January	79,362	751	26,697	4,911	47,004
February	73,002	721	24,341	4,545	43,395
March	80,866	586	26,950	4,709	48,621
April	73,667	589	24,070	3,935	45,072
May	74,544	584	24,665	4,259	45,036
June	73,185	637	24,293	4,153	44,103
July	77,182	755	26,611	4,322	45,493
August	79,498	851	26,684	4,459	47,504
Sept	74,870	753	26,024	4,545	43,548
October	75,092	687	24,958	4,243	45,205
November	77,529	779	24,812	4,582	47,356
December	81,160	830	25,321	4,799	50,210
Year 2016					
January	83,303	1,101	26,477	5,163	50,563
February	75,776	955	23,992	4,773	46,056
March	78,329	933	25,132	4,746	47,518
April	76,801	637	23,407	4,994	47,763
Year to Date					
2014	295,950	1,829	99,473	17,061	177,588
2015	306,897	2,648	102,058	18,100	184,091
2016	314,208	3,625	99,007	19,676	191,900
Rolling 12 Months Ending in April					
2015	876,093	5,745	294,601	47,674	528,073
2016	927,269	9,502	302,374	55,038	560,354

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-April 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	7,404,432	2,478,396	3,743,704	67,735	1,114,597
2007	7,961,922	2,736,418	4,104,991	70,074	1,050,439
2008	7,689,380	2,730,134	3,938,245	66,216	954,785
2009	7,937,856	2,911,279	3,961,254	75,555	989,769
2010	8,501,960	3,290,993	4,096,192	85,786	1,028,990
2011	8,723,546	3,446,087	4,127,777	87,026	1,062,657
2012	10,370,812	4,101,927	5,008,867	110,999	1,149,020
2013	9,478,685	3,970,447	4,220,309	117,626	1,170,303
2014	9,409,532	3,899,934	4,246,048	118,591	1,144,959
2015	10,968,304	4,741,566	4,929,529	127,009	1,170,200
Year 2014					
January	782,023	325,184	337,697	13,616	105,526
February	648,695	266,184	284,925	8,706	88,880
March	663,791	272,114	288,694	8,537	94,446
April	646,360	270,418	278,481	8,052	89,409
May	748,053	323,672	323,257	9,033	92,091
June	821,616	348,601	372,150	9,580	91,286
July	953,174	393,278	450,025	10,715	99,157
August	1,010,052	426,786	471,019	11,461	100,785
Sept	875,732	356,329	414,618	10,126	94,659
October	807,761	323,887	379,503	9,715	94,657
November	703,762	289,294	311,098	9,169	94,202
December	748,513	304,188	334,581	9,883	99,861
Year 2015					
January	827,300	343,212	371,023	10,944	102,121
February	750,623	327,219	323,367	9,744	90,293
March	816,872	346,739	362,619	10,878	96,636
April	768,130	329,487	338,983	9,206	90,454
May	843,449	358,712	379,915	10,433	94,388
June	999,909	447,466	445,877	10,335	96,231
July	1,165,436	512,193	541,554	11,087	100,603
August	1,148,840	499,610	534,984	11,395	102,850
Sept	1,008,688	435,585	466,254	10,963	95,887
October	902,384	383,916	413,714	10,322	94,431
November	847,739	366,555	370,755	10,671	99,759
December	888,933	390,870	380,485	11,032	106,546
Year 2016					
January	891,720	389,973	386,552	11,454	103,741
February	797,966	353,479	338,528	10,357	95,602
March	850,435	380,353	359,334	10,751	99,997
April	834,131	369,023	356,975	10,271	97,861
Year to Date					
2014	2,740,868	1,133,900	1,189,796	38,911	378,261
2015	3,162,925	1,346,658	1,395,991	40,772	379,504
2016	3,374,252	1,492,829	1,441,388	42,833	397,202
Rolling 12 Months Ending in April					
2015	9,831,589	4,112,691	4,452,243	120,453	1,146,202
2016	11,179,631	4,887,737	4,974,926	129,070	1,187,898

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	160,033	16,617	136,108	6,644	664
2007	166,774	17,442	144,104	4,598	630
2008	195,777	20,465	169,547	5,235	530
2009	206,792	19,583	180,689	5,931	589
2010	218,331	19,975	192,428	5,535	393
2011	232,795	22,086	180,856	29,469	384
2012	256,376	25,193	201,965	26,672	2,545
2013	271,967	27,259	211,942	28,143	4,623
2014	285,982	25,819	228,447	27,038	4,678
2015	326,455	31,112	263,077	27,041	5,225
Year 2014					
January	24,810	2,187	19,717	2,506	401
February	23,764	1,997	19,121	2,289	357
March	24,623	2,107	19,714	2,388	414
April	24,489	2,133	19,679	2,260	416
May	24,111	2,136	19,380	2,190	404
June	24,096	2,173	19,233	2,294	396
July	26,390	2,372	21,117	2,498	404
August	25,163	2,332	20,037	2,403	391
Sept	23,690	2,143	18,898	2,290	359
October	21,697	2,148	17,099	2,092	358
November	20,698	2,030	16,561	1,723	385
December	22,451	2,062	17,892	2,105	393
Year 2015					
January	28,955	2,743	22,785	2,902	525
February	25,187	2,354	19,871	2,499	462
March	27,068	2,540	21,358	2,676	494
April	26,169	2,554	21,454	1,814	346
May	27,389	2,540	22,528	1,932	389
June	26,408	2,629	21,537	1,876	366
July	28,301	2,783	23,092	2,018	407
August	28,004	2,720	22,933	1,962	389
Sept	25,387	2,434	20,776	1,817	359
October	27,510	2,547	22,111	2,368	483
November	27,126	2,488	21,445	2,683	509
December	28,952	2,778	23,185	2,493	495
Year 2016					
January	28,588	2,679	22,961	2,479	469
February	25,794	2,456	20,747	2,181	410
March	26,295	2,453	20,637	2,687	518
April	26,741	2,577	21,776	1,933	455
Year to Date					
2014	97,686	8,424	78,231	9,443	1,588
2015	107,378	10,191	85,469	9,891	1,827
2016	107,418	10,165	86,120	9,280	1,852
Rolling 12 Months Ending in April					
2015	295,675	27,586	235,684	27,487	4,917
2016	326,494	31,086	263,729	26,429	5,250

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-April 2016 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	2,051	0	525	1,094	433
2007	1,988	0	386	1,102	501
2008	1,025	0	454	433	138
2009	793	0	545	176	72
2010	1,623	0	1,195	370	58
2011	3,195	0	2,753	351	91
2012	3,189	0	2,788	340	61
2013	831	0	261	423	147
2014	1,710	176	525	674	335
2015	2,997	209	1,376	917	495
Year 2014					
January	169	20	62	61	25
February	148	18	64	44	23
March	132	19	41	44	27
April	137	19	28	60	30
May	144	19	33	64	29
June	154	17	54	54	29
July	179	14	70	64	30
August	161	15	62	55	30
Sept	140	14	47	51	28
October	101	2	21	53	25
November	112	3	17	64	29
December	132	15	26	61	30
Year 2015					
January	562	17	251	182	112
February	527	16	232	178	101
March	386	17	169	128	72
April	69	17	38	14	0
May	72	18	39	16	0
June	69	18	35	16	0
July	93	19	49	23	2
August	82	18	40	22	2
Sept	66	17	35	15	0
October	267	17	130	68	51
November	476	17	204	163	92
December	328	19	153	93	63
Year 2016					
January	437	18	189	146	84
February	401	0	195	117	89
March	575	0	295	145	134
April	470	0	237	121	112
Year to Date					
2014	586	76	196	210	105
2015	1,544	67	690	501	286
2016	1,883	18	917	530	419
Rolling 12 Months Ending in April					
2015	2,667	168	1,019	965	515
2016	3,336	160	1,602	946	628

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

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	162,084	16,617	136,632	7,738	1,096
2007	168,762	17,442	144,490	5,699	1,131
2008	196,802	20,465	170,001	5,668	668
2009	207,585	19,583	181,234	6,106	661
2010	219,954	19,975	193,623	5,905	451
2011	235,990	22,086	183,609	29,820	474
2012	259,564	25,193	204,753	27,012	2,606
2013	272,798	27,259	212,203	28,566	4,770
2014	287,692	25,995	228,971	27,713	5,013
2015	329,451	31,320	264,453	27,958	5,720
Year 2014					
January	24,980	2,207	19,779	2,567	426
February	23,912	2,014	19,185	2,334	379
March	24,755	2,126	19,755	2,432	442
April	24,625	2,152	19,708	2,320	446
May	24,255	2,155	19,413	2,254	433
June	24,250	2,190	19,287	2,348	425
July	26,569	2,386	21,187	2,561	434
August	25,324	2,347	20,099	2,458	421
Sept	23,830	2,158	18,944	2,341	387
October	21,798	2,150	17,119	2,145	383
November	20,811	2,033	16,578	1,786	414
December	22,584	2,077	17,918	2,166	423
Year 2015					
January	29,517	2,760	23,036	3,084	637
February	25,713	2,369	20,104	2,677	563
March	27,453	2,557	21,527	2,803	566
April	26,238	2,572	21,492	1,828	346
May	27,462	2,557	22,567	1,948	389
June	26,477	2,647	21,572	1,892	366
July	28,394	2,802	23,142	2,041	409
August	28,086	2,738	22,973	1,984	391
Sept	25,453	2,451	20,811	1,832	359
October	27,777	2,565	22,241	2,436	534
November	27,602	2,505	21,649	2,846	601
December	29,280	2,797	23,339	2,586	557
Year 2016					
January	29,025	2,698	23,149	2,625	553
February	26,195	2,456	20,942	2,298	499
March	26,870	2,453	20,932	2,833	653
April	27,211	2,577	22,013	2,054	567
Year to Date					
2014	98,272	8,499	78,427	9,653	1,693
2015	108,922	10,258	86,158	10,392	2,113
2016	109,301	10,183	87,037	9,810	2,271
Rolling 12 Months Ending in April					
2015	298,342	27,754	236,703	28,452	5,433
2016	329,830	31,246	265,331	27,376	5,878

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

Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2006-April 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	19,629	500	17,343	1,761	25
2007	19,576	553	17,116	1,785	122
2008	19,805	509	17,487	1,809	0
2009	19,669	465	17,048	2,155	0
2010	19,437	402	16,802	2,233	0
2011	16,972	388	14,625	1,955	4
2012	16,968	418	14,235	2,304	12
2013	17,007	456	14,057	2,485	8
2014	16,706	444	13,809	2,447	6
2015	15,643	766	12,670	2,202	4
Year 2014					
January	1,381	28	1,131	221	0
February	1,205	24	1,014	166	0
March	1,390	38	1,165	187	0
April	1,371	44	1,127	200	0
May	1,455	42	1,200	214	1
June	1,418	40	1,170	207	1
July	1,489	44	1,224	220	1
August	1,469	38	1,210	220	1
Sept	1,384	38	1,141	205	1
October	1,374	40	1,133	200	0
November	1,373	32	1,139	201	0
December	1,397	36	1,155	205	1
Year 2015					
January	1,293	31	1,068	194	1
February	1,137	24	944	168	1
March	1,230	28	1,010	192	1
April	1,241	41	1,020	180	0
May	1,297	45	1,076	176	0
June	1,322	44	1,103	175	0
July	1,451	104	1,153	194	0
August	1,386	101	1,105	181	0
Sept	1,289	97	1,010	183	0
October	1,297	94	1,028	174	1
November	1,307	70	1,042	194	1
December	1,393	89	1,111	193	1
Year 2016					
January	1,333	95	1,058	179	1
February	1,210	83	972	154	1
March	1,267	95	963	207	1
April	1,365	75	1,097	191	NM
Year to Date					
2014	5,347	135	4,437	774	1
2015	4,901	124	4,042	733	2
2016	5,175	348	4,091	732	4
Rolling 12 Months Ending in April					
2015	16,260	433	13,414	2,406	7
2016	15,917	991	12,719	2,200	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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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-April 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	2,840	0	725	1,595	520
2007	2,219	0	768	1,136	315
2008	2,328	0	806	1,514	8
2009	2,426	0	823	1,466	137
2010	2,287	0	819	1,316	152
2011	2,044	0	742	1,148	154
2012	1,986	0	522	1,273	190
2013	1,865	0	517	1,160	187
2014	1,955	0	650	1,104	200
2015	1,853	0	648	1,033	172
Year 2014					
January	203	0	59	126	17
February	140	0	49	76	15
March	154	0	52	86	15
April	155	0	58	82	15
May	166	0	57	92	18
June	163	0	57	90	16
July	164	0	54	93	17
August	161	0	47	92	22
Sept	157	0	48	92	18
October	165	0	56	93	17
November	158	0	55	88	15
December	169	0	59	93	17
Year 2015					
January	170	0	68	89	14
February	129	0	48	71	10
March	164	0	60	89	14
April	161	0	54	91	16
May	156	0	48	93	15
June	143	0	45	83	15
July	160	0	54	90	16
August	146	0	51	81	14
Sept	149	0	48	86	15
October	159	0	57	87	15
November	149	0	55	81	13
December	167	0	60	92	15
Year 2016					
January	155	0	63	81	12
February	163	0	73	78	12
March	194	0	82	98	14
April	153	0	51	90	NM
Year to Date					
2014	651	0	218	371	62
2015	623	0	230	340	54
2016	664	0	268	347	49
Rolling 12 Months Ending in April					
2015	1,927	0	663	1,073	192
2016	1,894	0	686	1,041	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
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Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
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-April 2016 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	22,469	500	18,068	3,356	545
2007	21,796	553	17,885	2,921	437
2008	22,134	509	18,294	3,323	8
2009	22,095	465	17,872	3,622	137
2010	21,725	402	17,621	3,549	152
2011	19,016	388	15,367	3,103	158
2012	18,954	418	14,757	3,577	203
2013	18,871	456	14,574	3,646	195
2014	18,661	444	14,459	3,551	206
2015	17,496	766	13,318	3,235	177
Year 2014					
January	1,584	28	1,190	347	18
February	1,345	24	1,063	242	15
March	1,544	38	1,217	273	16
April	1,526	44	1,184	283	15
May	1,622	42	1,256	306	18
June	1,581	40	1,227	297	17
July	1,653	44	1,279	313	18
August	1,629	38	1,257	312	22
Sept	1,541	38	1,188	297	18
October	1,540	40	1,189	293	17
November	1,531	32	1,194	289	15
December	1,566	36	1,214	299	17
Year 2015					
January	1,463	31	1,135	282	15
February	1,266	24	992	239	11
March	1,394	28	1,070	281	14
April	1,402	41	1,074	270	16
May	1,453	45	1,123	269	16
June	1,465	44	1,148	258	15
July	1,611	104	1,207	284	16
August	1,532	101	1,156	261	14
Sept	1,438	97	1,057	269	15
October	1,456	94	1,085	261	16
November	1,455	70	1,097	274	14
December	1,561	89	1,171	285	16
Year 2016					
January	1,488	95	1,121	260	13
February	1,373	83	1,045	232	13
March	1,461	95	1,045	305	15
April	1,517	75	1,148	281	NM
Year to Date					
2014	5,999	135	4,655	1,145	64
2015	5,524	124	4,272	1,073	56
2016	5,839	348	4,359	1,079	53
Rolling 12 Months Ending in April					
2015	18,187	433	14,077	3,479	198
2016	17,811	991	13,405	3,241	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 2.7.A. Wood / Wood Waste Biomass: Consumption for Electricity Generation, by Sector, 2006-April 2016 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	350,074	27,455	135,546	269	186,803
2007	353,025	31,568	132,953	284	188,220
2008	338,786	29,150	130,122	287	179,227
2009	320,444	29,565	130,894	274	159,712
2010	349,530	40,167	137,072	274	172,016
2011	347,623	35,474	130,108	482	181,559
2012	390,342	32,723	138,217	478	218,924
2013	397,929	43,363	143,721	536	210,308
2014	431,285	45,643	174,513	961	210,167
2015	423,964	43,996	175,037	723	204,209
Year 2014					
January	37,135	4,268	14,488	150	18,228
February	33,670	3,805	13,442	125	16,298
March	36,751	4,396	14,837	87	17,430
April	31,558	2,624	12,884	43	16,007
May	32,416	2,959	12,100	67	17,290
June	37,105	3,977	15,346	124	17,658
July	39,028	4,052	16,069	81	18,827
August	38,477	4,275	15,672	69	18,461
Sept	35,553	3,720	14,839	54	16,940
October	35,086	3,777	13,871	64	17,375
November	36,209	3,715	15,424	46	17,025
December	38,296	4,075	15,542	51	18,628
Year 2015					
January	37,759	4,213	15,381	82	18,083
February	34,463	3,571	14,764	75	16,053
March	34,574	3,449	14,233	63	16,829
April	30,594	2,416	12,332	56	15,790
May	34,107	3,398	14,280	72	16,357
June	35,586	3,806	14,827	41	16,912
July	39,299	4,630	16,262	80	18,327
August	38,913	4,539	16,512	45	17,817
Sept	34,715	3,479	13,872	58	17,305
October	32,887	3,255	12,881	62	16,690
November	34,399	3,405	14,293	36	16,666
December	36,669	3,834	15,400	53	17,381
Year 2016					
January	35,775	4,263	14,257	65	17,190
February	34,677	4,008	14,416	75	16,179
March	34,301	3,536	14,096	44	16,625
April	26,183	2,673	9,712	44	13,754
Year to Date					
2014	139,114	15,094	55,651	406	67,963
2015	137,390	13,649	56,710	276	66,754
2016	130,937	14,479	52,481	228	63,749
Rolling 12 Months Ending in April					
2015	429,560	44,199	175,572	831	208,958
2016	417,511	44,826	170,808	675	201,203

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2006-April 2016 (Billion Btus)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2006	1,049,161	0	18,814	1,045	1,029,303
2007	982,486	0	21,435	1,756	959,296
2008	923,889	0	18,075	1,123	904,690
2009	816,285	0	19,587	1,135	795,563
2010	876,041	0	18,357	1,064	856,620
2011	893,314	0	16,577	1,022	875,716
2012	883,158	0	19,251	949	862,958
2013	919,631	0	20,342	950	898,339
2014	946,344	8,835	22,262	3,766	911,481
2015	923,637	9,244	18,028	3,532	892,833
Year 2014					
January	80,405	649	1,975	311	77,469
February	73,581	733	1,988	271	70,589
March	80,081	875	2,027	342	76,837
April	77,233	678	1,914	246	74,395
May	76,839	773	1,454	338	74,274
June	79,101	683	1,848	400	76,170
July	80,733	767	1,876	351	77,739
August	82,539	722	1,908	346	79,564
Sept	76,170	573	1,706	296	73,596
October	78,477	737	1,894	285	75,561
November	78,316	728	1,738	271	75,578
December	82,869	916	1,935	309	79,709
Year 2015					
January	84,158	862	1,703	374	81,220
February	74,527	821	1,628	353	71,725
March	75,574	767	1,575	306	72,926
April	76,652	600	1,563	300	74,190
May	77,079	771	792	141	75,375
June	76,022	797	1,438	251	73,536
July	78,843	773	1,682	357	76,031
August	77,221	769	1,752	269	74,431
Sept	74,010	703	1,583	311	71,413
October	75,840	740	1,270	269	73,561
November	74,605	712	1,377	278	72,238
December	79,104	929	1,665	324	76,187
Year 2016					
January	79,935	840	1,732	470	76,893
February	72,962	884	1,727	396	69,956
March	73,615	860	1,312	259	71,183
April	73,175	693	1,381	342	70,758
Year to Date					
2014	311,300	2,936	7,904	1,170	299,290
2015	310,911	3,050	6,468	1,333	300,060
2016	299,686	3,277	6,153	1,466	288,790
Rolling 12 Months Ending in April					
2015	945,955	8,949	20,826	3,929	912,251
2016	912,412	9,472	17,712	3,666	881,562

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, April 2016 and April 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	64	19	233.0%	4	2	60	17	0	0	NM	1
Connecticut	0	3	-100.0%	0	0	0	3	0	0	0	0
Maine	1	1	-17.0%	0	0	1	1	0	0	0	0
Massachusetts	60	14	338.0%	0	0	59	13	0	0	NM	NM
New Hampshire	4	2	94.0%	4	2	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,659	2,006	-17.0%	0	0	1,642	1,989	NM	NM	16	17
New Jersey	36	27	34.0%	0	0	36	27	0	0	0	0
New York	15	32	-55.0%	0	0	8	27	0	0	6	5
Pennsylvania	1,608	1,947	-17.0%	0	0	1,598	1,935	NM	NM	10	12
East North Central	9,438	11,469	-18.0%	5,662	7,530	3,710	3,870	NM	3	64	65
Illinois	2,517	2,877	-12.0%	295	377	2,177	2,457	NM	2	43	42
Indiana	2,500	2,686	-6.9%	2,390	2,466	109	220	NM	NM	NM	NM
Michigan	1,308	2,374	-45.0%	1,282	2,351	21	18	0	2	NM	3
Ohio	2,109	2,080	1.4%	702	899	1,403	1,176	NM	NM	5	5
Wisconsin	1,003	1,453	-31.0%	993	1,438	0	0	NM	NM	10	15
West North Central	6,538	8,806	-26.0%	6,449	8,706	NM	1	NM	3	85	96
Iowa	506	1,257	-60.0%	458	1,205	0	0	NM	1	45	51
Kansas	759	1,375	-45.0%	759	1,375	0	0	0	0	0	0
Minnesota	766	886	-14.0%	746	862	0	0	NM	0	20	24
Missouri	2,424	2,430	-0.2%	2,421	2,428	NM	1	1	2	NM	NM
Nebraska	706	1,118	-37.0%	693	1,101	0	0	0	0	NM	17
North Dakota	1,271	1,739	-27.0%	1,267	1,735	0	0	0	0	NM	4
South Dakota	105	0	--	105	0	0	0	0	0	0	0
South Atlantic	5,984	6,370	-6.1%	5,373	5,659	588	684	NM	2	22	25
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	1,110	1,474	-25.0%	1,077	1,434	31	37	0	0	NM	NM
Georgia	865	1,485	-42.0%	862	1,481	0	0	0	0	NM	4
Maryland	295	314	-6.0%	0	0	293	311	0	NM	2	2
North Carolina	561	696	-19.0%	539	668	NM	NM	1	1	NM	NM
South Carolina	612	506	21.0%	608	503	0	0	0	0	NM	3
Virginia	407	229	77.0%	396	195	5	NM	NM	NM	NM	6
West Virginia	2,134	1,666	28.0%	1,892	1,378	239	285	0	0	3	3
East South Central	4,099	5,133	-20.0%	4,026	4,809	56	304	0	0	17	21
Alabama	967	1,367	-29.0%	966	1,363	0	0	0	0	NM	NM
Kentucky	2,201	2,463	-11.0%	2,201	2,463	0	0	0	0	0	0
Mississippi	85	413	-79.0%	28	108	56	304	0	0	0	0
Tennessee	846	891	-5.0%	831	874	0	0	0	0	15	17
West South Central	6,166	7,266	-15.0%	3,080	3,506	3,076	3,749	0	0	NM	NM
Arkansas	707	749	-5.7%	553	575	154	173	0	0	1	1
Louisiana	390	387	0.9%	243	101	147	286	0	0	0	0
Oklahoma	470	1,032	-54.0%	438	978	22	43	0	0	NM	NM
Texas	4,599	5,098	-9.8%	1,846	1,851	2,753	3,247	0	0	0	0
Mountain	5,035	7,407	-32.0%	4,373	6,608	628	763	0	0	35	36
Arizona	920	1,377	-33.0%	920	1,377	0	0	0	0	0	0
Colorado	1,054	1,261	-16.0%	1,052	1,260	NM	NM	0	0	NM	NM
Idaho	NM	1	NM	0	0	0	0	0	0	NM	1
Montana	587	731	-20.0%	NM	NM	574	710	0	0	NM	NM
Nevada	43	63	-33.0%	29	59	13	5	0	0	0	0
New Mexico	417	928	-55.0%	417	928	0	0	0	0	0	0
Utah	606	998	-39.0%	565	969	NM	NM	0	0	23	19
Wyoming	1,408	2,047	-31.0%	1,376	1,994	NM	NM	0	0	NM	16
Pacific Contiguous	7	9	-25.0%	0	0	0	NM	0	0	7	7
California	6	8	-26.0%	0	0	0	NM	0	0	6	6
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	1	1	-16.0%	0	0	0	0	0	0	1	1
Pacific Noncontiguous	73	64	15.0%	6	10	63	50	3	3	NM	NM
Alaska	19	28	-31.0%	6	10	NM	15	3	3	0	0
Hawaii	54	36	52.0%	0	0	53	34	0	0	NM	NM
U.S. Total	39,064	48,549	-20.0%	28,973	36,829	9,825	11,431	10	11	256	278

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 April 2016 and April 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	546	1,363	-60.0%	72	354	472	1,001	0	0	3	7
Connecticut	38	339	-89.0%	0	0	38	339	0	0	0	0
Maine	6	13	-54.0%	0	0	5	7	0	0	1	6
Massachusetts	431	658	-35.0%	0	0	429	656	0	0	2	2
New Hampshire	72	354	-80.0%	72	354	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	8,594	12,605	-32.0%	0	0	8,518	12,518	NM	1	76	86
New Jersey	179	396	-55.0%	0	0	179	396	0	0	0	0
New York	232	564	-59.0%	0	0	210	541	0	0	22	23
Pennsylvania	8,183	11,645	-30.0%	0	0	8,130	11,581	NM	1	53	63
East North Central	42,958	57,203	-25.0%	27,712	35,187	14,950	21,678	13	16	282	321
Illinois	10,499	15,481	-32.0%	1,350	1,799	8,957	13,477	5	6	187	198
Indiana	11,085	13,254	-16.0%	10,286	12,349	794	900	3	3	NM	2
Michigan	7,371	9,495	-22.0%	7,266	9,378	79	78	4	6	22	33
Ohio	8,697	11,921	-27.0%	3,556	4,677	5,120	7,222	NM	NM	20	21
Wisconsin	5,306	7,052	-25.0%	5,254	6,984	0	0	NM	NM	52	68
West North Central	34,933	42,230	-17.0%	34,474	41,719	4	5	17	21	437	485
Iowa	3,985	6,456	-38.0%	3,742	6,192	0	0	10	11	233	254
Kansas	3,914	5,363	-27.0%	3,914	5,363	0	0	0	0	0	0
Minnesota	4,330	4,990	-13.0%	4,224	4,869	0	0	1	2	105	118
Missouri	11,493	12,828	-10.0%	11,477	12,808	4	5	6	8	5	7
Nebraska	3,919	4,574	-14.0%	3,844	4,490	0	0	0	0	75	84
North Dakota	6,820	7,684	-11.0%	6,800	7,662	0	0	0	0	20	22
South Dakota	473	335	41.0%	473	335	0	0	0	0	0	0
South Atlantic	29,410	36,275	-19.0%	25,681	31,668	3,607	4,435	8	12	114	160
Delaware	99	158	-37.0%	0	0	99	158	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,216	5,733	-26.0%	4,159	5,681	41	38	0	0	15	14
Georgia	4,928	6,412	-23.0%	4,911	6,391	0	0	0	0	16	22
Maryland	1,731	2,350	-26.0%	0	0	1,724	2,334	0	NM	7	14
North Carolina	3,674	5,505	-33.0%	3,589	5,425	NM	NM	6	7	15	12
South Carolina	2,763	3,216	-14.0%	2,744	3,197	0	0	0	0	19	19
Virginia	2,478	2,633	-5.9%	2,376	2,438	72	168	NM	NM	28	25
West Virginia	9,521	10,269	-7.3%	7,901	8,536	1,606	1,678	0	0	14	55
East South Central	19,951	24,991	-20.0%	18,995	23,734	872	1,167	0	0	84	90
Alabama	4,668	5,925	-21.0%	4,650	5,902	0	0	0	0	18	23
Kentucky	10,275	12,219	-16.0%	10,275	12,219	0	0	0	0	0	0
Mississippi	1,200	1,751	-31.0%	327	584	872	1,167	0	0	0	0
Tennessee	3,808	5,096	-25.0%	3,742	5,029	0	0	0	0	66	67
West South Central	28,056	37,382	-25.0%	14,359	18,483	13,650	18,859	0	0	47	41
Arkansas	3,526	3,851	-8.4%	2,740	3,161	781	685	0	0	5	5
Louisiana	2,310	3,672	-37.0%	1,762	1,808	548	1,864	0	0	0	0
Oklahoma	3,004	5,123	-41.0%	2,652	4,821	309	266	0	0	NM	NM
Texas	19,216	24,737	-22.0%	7,205	8,694	12,011	16,043	0	0	0	0
Mountain	26,456	32,369	-18.0%	23,048	28,738	3,301	3,515	0	0	106	116
Arizona	4,419	5,935	-26.0%	4,419	5,935	0	0	0	0	0	0
Colorado	4,954	5,783	-14.0%	4,948	5,778	NM	NM	0	0	NM	NM
Idaho	5	5	-13.0%	0	0	0	0	0	0	5	5
Montana	3,034	3,246	-6.5%	NM	NM	2,956	3,155	0	0	NM	2
Nevada	275	386	-29.0%	144	260	131	126	0	0	0	0
New Mexico	2,710	3,545	-24.0%	2,710	3,545	0	0	0	0	0	0
Utah	3,522	4,803	-27.0%	3,411	4,689	NM	NM	0	0	37	38
Wyoming	7,538	8,666	-13.0%	7,342	8,443	135	152	0	0	62	70
Pacific Contiguous	467	428	9.1%	185	14	255	388	0	0	28	26
California	25	27	-6.9%	0	0	0	NM	0	0	25	23
Oregon	185	14	NM	185	14	0	0	0	0	0	0
Washington	258	387	-33.0%	0	0	255	385	0	0	3	3
Pacific Noncontiguous	416	368	13.0%	100	75	298	274	14	14	NM	NM
Alaska	175	156	12.0%	100	75	61	67	14	14	0	0
Hawaii	242	212	14.0%	0	0	237	207	0	0	NM	NM
U.S. Total	191,788	245,215	-22.0%	144,627	179,973	45,928	63,840	51	64	1,182	1,337

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, April 2016 and April 2015 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	NM	34	NM	11	7	NM	21	NM	NM	NM	NM
Connecticut	NM	17	NM	1	1	NM	15	NM	NM	NM	NM
Maine	4	2	96.0%	NM	NM	4	2	NM	NM	0	NM
Massachusetts	NM	NM	NM	2	1	NM	NM	NM	4	NM	NM
New Hampshire	7	NM	NM	7	3	NM	NM	NM	NM	NM	NM
Rhode Island	NM	NM	NM	1	2	0	0	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	84	67	24.0%	NM	11	65	44	NM	NM	7	11
New Jersey	NM	6	NM	NM	NM	NM	6	NM	NM	NM	NM
New York	34	27	25.0%	NM	10	NM	NM	NM	NM	4	8
Pennsylvania	48	34	40.0%	NM	NM	45	31	NM	NM	3	2
East North Central	78	79	-0.7%	53	56	22	20	1	NM	3	3
Illinois	12	8	46.0%	2	2	9	6	0	NM	NM	NM
Indiana	20	17	15.0%	17	15	NM	NM	NM	NM	2	2
Michigan	16	25	-35.0%	16	24	0	0	NM	NM	NM	NM
Ohio	25	25	3.0%	13	10	12	14	NM	NM	NM	0
Wisconsin	6	5	27.0%	6	4	0	NM	NM	NM	NM	NM
West North Central	31	41	-25.0%	29	36	0	NM	NM	NM	NM	NM
Iowa	6	5	15.0%	6	5	NM	NM	NM	NM	NM	NM
Kansas	5	12	-57.0%	5	12	0	0	0	0	0	0
Minnesota	4	NM	NM	NM	3	0	NM	NM	NM	NM	NM
Missouri	7	9	-16.0%	7	9	NM	NM	NM	NM	0	0
Nebraska	5	NM	NM	5	NM	0	0	0	0	0	0
North Dakota	2	3	-13.0%	2	3	0	0	NM	NM	NM	NM
South Dakota	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
South Atlantic	175	209	-16.0%	127	154	40	25	NM	NM	7	24
Delaware	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	48	93	-48.0%	46	90	NM	NM	0	0	1	NM
Georgia	28	23	21.0%	26	12	NM	NM	NM	NM	2	11
Maryland	24	22	8.6%	1	2	22	15	NM	NM	NM	NM
North Carolina	25	16	55.0%	NM	14	NM	NM	NM	NM	NM	NM
South Carolina	10	24	-59.0%	7	14	NM	NM	NM	NM	3	10
Virginia	22	16	44.0%	6	9	16	6	NM	NM	1	NM
West Virginia	17	13	24.0%	16	13	0	1	0	0	0	0
East South Central	36	51	-29.0%	35	48	NM	NM	NM	NM	1	NM
Alabama	NM	NM	NM	1	7	NM	NM	0	0	NM	NM
Kentucky	16	18	-9.5%	16	18	0	0	0	0	0	0
Mississippi	2	6	-68.0%	2	6	0	0	0	0	0	0
Tennessee	16	17	-8.3%	15	17	NM	NM	NM	NM	NM	NM
West South Central	21	74	-71.0%	13	60	8	12	NM	NM	NM	2
Arkansas	2	14	-84.0%	2	11	0	2	0	0	0	1
Louisiana	0	43	-99.0%	0	42	0	1	0	0	0	0
Oklahoma	2	NM	NM	1	0	0	0	NM	NM	NM	NM
Texas	17	16	7.0%	9	7	8	9	NM	NM	NM	NM
Mountain	54	46	18.0%	50	42	3	3	NM	NM	NM	NM
Arizona	19	11	71.0%	19	11	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	3	NM	NM	NM	2	2	0	0	0	0
Nevada	2	1	57.0%	2	1	1	1	0	0	0	0
New Mexico	11	20	-46.0%	11	20	0	0	0	0	NM	NM
Utah	7	5	33.0%	7	5	NM	NM	0	0	NM	NM
Wyoming	11	3	242.0%	11	3	0	0	0	0	NM	NM
Pacific Contiguous	10	13	-25.0%	5	5	NM	NM	NM	NM	1	NM
California	NM	11	NM	4	5	NM	NM	NM	NM	NM	NM
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	1	1	-6.8%	NM	NM	NM	NM	NM	NM	1	NM
Pacific Noncontiguous	814	937	-13.0%	709	828	94	93	NM	NM	11	14
Alaska	96	114	-16.0%	89	106	0	0	NM	NM	7	8
Hawaii	718	823	-13.0%	619	722	94	93	0	1	NM	6
U.S. Total	1,335	1,550	-14.0%	1,042	1,248	252	229	10	17	32	57

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 April 2016 and April 2015 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	349	2,985	-88.0%	40	285	288	2,585	16	73	5	42
Connecticut	42	609	-93.0%	3	NM	36	594	NM	NM	NM	NM
Maine	145	802	-82.0%	NM	NM	141	758	NM	NM	3	40
Massachusetts	127	1,174	-89.0%	17	81	102	1,056	NM	37	NM	NM
New Hampshire	15	264	-94.0%	12	189	NM	67	2	NM	NM	NM
Rhode Island	17	123	-86.0%	6	7	9	110	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	848	3,839	-78.0%	275	1,245	537	2,508	11	33	25	54
New Jersey	85	426	-80.0%	NM	NM	84	423	NM	NM	NM	NM
New York	563	2,650	-79.0%	273	1,242	265	1,336	9	30	15	42
Pennsylvania	199	763	-74.0%	NM	NM	187	749	NM	NM	10	NM
East North Central	354	391	-9.3%	248	281	95	95	3	NM	9	12
Illinois	54	34	57.0%	14	NM	39	22	1	NM	NM	NM
Indiana	80	113	-29.0%	74	105	NM	NM	NM	NM	6	8
Michigan	74	76	-3.6%	72	74	0	0	1	NM	1	1
Ohio	119	132	-10.0%	64	57	54	72	NM	NM	1	3
Wisconsin	28	35	-21.0%	NM	33	2	1	NM	0	1	1
West North Central	165	247	-33.0%	153	223	NM	NM	5	5	1	0
Iowa	34	25	38.0%	34	24	NM	NM	NM	NM	NM	NM
Kansas	23	54	-58.0%	23	54	0	0	0	0	0	0
Minnesota	22	45	-51.0%	NM	22	NM	NM	4	4	0	NM
Missouri	46	58	-20.0%	46	58	NM	NM	NM	NM	0	0
Nebraska	17	17	2.3%	17	17	0	0	0	0	0	0
North Dakota	18	20	-7.8%	18	20	0	0	NM	NM	NM	NM
South Dakota	NM	29	NM	NM	29	NM	NM	NM	NM	0	0
South Atlantic	1,475	3,406	-57.0%	992	2,363	421	791	NM	143	61	110
Delaware	67	210	-68.0%	NM	NM	66	206	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	194	417	-53.0%	185	403	NM	NM	0	0	7	8
Georgia	137	246	-44.0%	67	88	33	82	1	NM	36	75
Maryland	177	384	-54.0%	7	NM	169	234	NM	141	1	NM
North Carolina	244	573	-57.0%	189	528	52	37	NM	NM	3	8
South Carolina	110	287	-62.0%	94	257	NM	15	NM	NM	13	15
Virginia	486	1,205	-60.0%	389	1,012	95	189	NM	NM	2	3
West Virginia	60	83	-28.0%	60	63	0	21	0	0	0	0
East South Central	187	276	-32.0%	167	233	11	27	NM	NM	9	16
Alabama	43	90	-52.0%	24	49	11	26	0	0	8	14
Kentucky	65	85	-24.0%	65	85	0	0	0	0	0	0
Mississippi	14	15	-8.9%	13	14	0	0	0	0	0	1
Tennessee	66	86	-24.0%	65	85	NM	NM	NM	NM	NM	NM
West South Central	93	197	-53.0%	70	122	21	71	NM	NM	2	4
Arkansas	22	42	-49.0%	19	32	2	8	0	0	1	2
Louisiana	14	80	-83.0%	10	63	3	17	0	0	0	0
Oklahoma	8	NM	NM	8	3	0	0	NM	NM	NM	NM
Texas	50	72	-30.0%	33	24	16	46	NM	NM	NM	NM
Mountain	160	165	-3.0%	147	152	11	11	NM	NM	2	2
Arizona	44	38	17.0%	44	38	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	NM	NM	NM	NM	9	9	0	0	0	0
Nevada	6	10	-38.0%	5	8	1	NM	0	0	0	0
New Mexico	44	56	-21.0%	44	56	0	0	0	0	NM	NM
Utah	16	11	46.0%	15	10	NM	NM	0	0	NM	NM
Wyoming	27	24	15.0%	26	22	0	0	0	0	2	2
Pacific Contiguous	37	45	-19.0%	22	21	NM	NM	NM	NM	5	5
California	29	37	-22.0%	19	19	NM	NM	NM	NM	NM	NM
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	7	8	-5.0%	NM	NM	1	NM	NM	NM	4	4
Pacific Noncontiguous	3,566	3,909	-8.8%	3,150	3,349	349	469	4	5	NM	86
Alaska	455	482	-5.7%	425	448	0	0	NM	NM	29	33
Hawaii	3,112	3,426	-9.2%	2,725	2,901	349	469	3	4	NM	52
U.S. Total	7,234	15,460	-53.0%	5,263	8,273	1,748	6,593	42	260	181	333

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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, April 2016 and April 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	NM	NM	0	0	0	0	0	0	NM	NM
New Jersey	NM	0	--	0	0	0	0	0	0	NM	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	NM	NM	0	0	0	0	0	0	NM	NM
East North Central	107	84	26.0%	68	35	33	44	0	0	6	6
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	34	0	--	34	0	0	0	0	0	0	0
Michigan	35	35	0.6%	31	31	0	1	0	0	4	NM
Ohio	33	42	-22.0%	0	0	33	42	0	0	NM	NM
Wisconsin	4	7	-42.0%	2	4	0	0	0	0	2	3
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	76	34	122.0%	74	31	0	0	0	0	2	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	74	31	137.0%	74	31	0	0	0	0	0	0
Georgia	2	3	-33.0%	0	0	0	0	0	0	2	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	38	26	47.0%	38	26	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	38	26	47.0%	38	26	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	135	16.0%	146	121	0	0	0	0	11	14
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	154	126	22.0%	146	121	0	0	0	0	8	NM
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	8	NM	0	0	0	0	0	0	NM	8
Mountain	10	15	-31.0%	0	0	10	15	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	10	15	-31.0%	0	0	10	15	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	396	301	32.0%	326	213	43	59	0	0	27	29

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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 April 2016 and April 2015 (Thousand Tons)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 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	17	15	9.6%	0	0	0	0	0	0	17	15
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	14	15	-9.6%	0	0	0	0	0	0	14	15
East North Central	369	408	-9.7%	242	214	108	172	0	0	19	22
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	159	88	79.0%	159	88	0	0	0	0	0	0
Michigan	90	135	-33.0%	76	116	1	6	0	0	13	13
Ohio	107	166	-36.0%	0	0	107	166	0	0	1	0
Wisconsin	12	19	-34.0%	7	9	0	0	0	0	6	9
West North Central	12	11	17.0%	0	0	0	0	1	1	12	10
Iowa	12	11	17.0%	0	0	0	0	1	1	12	10
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	274	177	54.0%	265	165	0	0	0	0	9	12
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	265	165	61.0%	265	165	0	0	0	0	0	0
Georgia	9	12	-31.0%	0	0	0	0	0	0	9	12
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	134	154	-13.0%	134	154	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	134	154	-13.0%	134	154	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	582	572	1.7%	541	519	0	0	0	0	41	53
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	566	537	5.4%	541	519	0	0	0	0	25	18
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	16	35	-55.0%	0	0	0	0	0	0	16	35
Mountain	55	59	-7.4%	0	0	55	59	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	55	59	-7.4%	0	0	55	59	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	1,442	1,397	3.2%	1,182	1,051	163	232	1	1	96	112

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

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	32,074	28,003	15.0%	285	78	30,454	26,663	665	623	670	639
Connecticut	11,890	9,396	27.0%	0	0	11,317	8,795	NM	NM	315	330
Maine	1,662	1,199	39.0%	0	0	1,397	947	NM	NM	245	232
Massachusetts	11,904	11,576	2.8%	231	49	11,241	11,166	331	292	NM	NM
New Hampshire	3,627	3,328	9.0%	54	28	3,555	3,280	NM	NM	NM	NM
Rhode Island	2,990	2,504	19.0%	0	0	2,943	2,475	NM	NM	0	0
Vermont	0	0	-97.0%	0	0	0	0	0	0	0	0
Middle Atlantic	90,559	77,513	17.0%	8,376	6,073	80,574	69,949	820	715	789	776
New Jersey	23,747	17,211	38.0%	NM	NM	23,346	16,810	NM	NM	215	NM
New York	33,239	28,637	16.0%	8,292	6,008	24,182	22,004	616	519	149	106
Pennsylvania	33,573	31,665	6.0%	NM	NM	33,046	31,135	NM	NM	425	431
East North Central	68,508	44,758	53.0%	29,446	17,608	36,548	24,690	803	1,146	1,712	1,313
Illinois	9,618	5,737	68.0%	959	179	8,263	4,682	197	682	200	194
Indiana	9,513	8,868	7.3%	6,323	6,880	2,793	1,665	88	51	309	270
Michigan	23,064	10,637	117.0%	9,151	2,650	12,553	6,965	NM	280	NM	742
Ohio	16,561	13,076	27.0%	4,396	2,103	12,055	10,874	NM	NM	NM	NM
Wisconsin	9,752	6,441	51.0%	8,618	5,796	885	504	NM	64	NM	77
West North Central	15,267	9,675	58.0%	12,144	7,312	2,390	1,914	NM	293	NM	157
Iowa	NM	827	NM	947	728	NM	0	NM	NM	NM	NM
Kansas	1,402	1,074	31.0%	1,254	1,027	0	0	0	0	NM	47
Minnesota	6,147	4,495	37.0%	4,767	3,772	1,096	533	NM	152	NM	38
Missouri	4,954	2,477	100.0%	3,545	996	1,293	1,381	110	97	NM	NM
Nebraska	555	246	126.0%	522	242	0	0	NM	NM	NM	NM
North Dakota	NM	224	NM	NM	NM	0	0	0	0	NM	NM
South Dakota	779	332	134.0%	779	332	0	0	0	0	0	0
South Atlantic	186,713	173,101	7.9%	148,551	142,802	35,324	27,512	460	443	2,378	2,345
Delaware	5,649	6,379	-11.0%	NM	NM	4,517	5,243	0	0	1,090	1,110
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	101,019	99,060	2.0%	91,802	93,531	8,433	4,788	NM	NM	757	728
Georgia	30,629	22,398	37.0%	20,257	16,059	10,181	6,058	0	0	192	280
Maryland	3,842	2,901	32.0%	0	0	3,434	2,513	NM	NM	42	NM
North Carolina	24,054	19,259	25.0%	20,494	17,139	3,453	2,062	7	4	100	55
South Carolina	6,796	9,460	-28.0%	5,514	8,546	1,231	892	NM	NM	40	18
Virginia	13,575	12,792	6.1%	10,241	7,495	3,181	5,159	NM	NM	147	133
West Virginia	1,104	804	37.0%	201	8	894	796	0	0	9	NM
East South Central	59,797	53,596	12.0%	40,087	32,027	18,645	20,449	NM	NM	973	1,032
Alabama	27,133	25,278	7.3%	9,341	6,806	17,164	17,795	0	0	628	677
Kentucky	4,629	3,436	35.0%	4,521	3,243	4	65	0	0	104	129
Mississippi	22,731	20,255	12.0%	21,092	17,502	1,470	2,584	NM	NM	160	161
Tennessee	5,304	4,627	15.0%	5,133	4,477	NM	NM	NM	NM	81	65
West South Central	200,246	189,927	5.4%	66,729	58,484	95,741	97,741	676	598	37,100	33,104
Arkansas	10,544	8,546	23.0%	2,412	1,947	7,963	6,427	NM	NM	167	170
Louisiana	42,158	38,106	11.0%	21,385	23,404	4,022	1,024	NM	NM	16,615	13,536
Oklahoma	20,449	16,955	21.0%	14,709	10,335	5,648	6,551	NM	0	NM	69
Texas	127,095	126,321	0.6%	28,223	22,798	78,107	83,738	523	456	20,241	19,328
Mountain	55,430	47,159	18.0%	45,798	36,346	8,491	9,713	300	300	841	800
Arizona	18,801	13,452	40.0%	14,745	9,226	3,958	4,129	NM	NM	0	0
Colorado	8,489	5,828	46.0%	7,331	4,533	1,140	1,279	0	0	NM	NM
Idaho	NM	1,279	NM	NM	674	NM	561	0	0	NM	44
Montana	NM	498	NM	NM	463	NM	NM	0	0	0	0
Nevada	14,587	15,839	-7.9%	13,341	14,612	1,056	1,049	NM	NM	NM	NM
New Mexico	6,371	5,673	12.0%	4,657	3,135	1,605	2,431	NM	NM	NM	NM
Utah	5,582	4,256	31.0%	4,998	3,685	NM	NM	NM	NM	271	283
Wyoming	NM	334	NM	NM	NM	NM	NM	0	0	NM	307
Pacific Contiguous	46,931	67,744	-31.0%	15,262	25,260	25,401	36,282	1,080	1,063	5,189	5,138
California	40,988	55,533	-26.0%	11,994	18,454	22,971	30,995	998	987	5,026	5,098
Oregon	3,520	8,125	-57.0%	1,212	3,017	2,117	5,009	NM	NM	118	28
Washington	2,423	4,086	-41.0%	2,056	3,789	313	279	NM	NM	45	13
Pacific Noncontiguous	1,805	2,987	-40.0%	1,710	2,907	0	0	NM	NM	NM	NM
Alaska	1,805	2,987	-40.0%	1,710	2,907	0	0	NM	NM	NM	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	757,330	694,463	9.1%	368,386	328,898	333,568	314,913	5,277	5,271	50,098	45,382

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	113,989	102,176	12.0%	546	317	107,556	96,019	2,892	2,943	2,995	2,897
Connecticut	43,139	38,311	13.0%	0	0	40,256	35,419	1,295	1,301	1,588	1,590
Maine	7,387	6,927	6.6%	0	0	6,305	5,898	NM	NM	983	934
Massachusetts	43,077	34,604	24.0%	491	278	40,936	32,649	1,269	1,347	381	330
New Hampshire	7,796	12,658	-38.0%	55	31	7,645	12,530	NM	NM	NM	NM
Rhode Island	12,590	9,668	30.0%	0	0	12,414	9,523	NM	NM	0	0
Vermont	1	9	-88.0%	1	9	0	0	0	0	0	0
Middle Atlantic	362,442	330,765	9.6%	32,962	31,285	321,899	292,293	3,610	3,387	3,970	3,800
New Jersey	91,921	75,551	22.0%	NM	NM	89,994	73,656	524	500	1,136	1,151
New York	128,772	130,358	-1.2%	32,659	31,013	92,888	96,414	2,641	2,428	584	503
Pennsylvania	141,748	124,856	14.0%	NM	NM	139,017	122,223	445	460	2,250	2,146
East North Central	281,506	225,992	25.0%	120,000	96,915	149,505	118,050	4,979	5,172	7,021	5,855
Illinois	39,822	25,189	58.0%	3,026	NM	33,414	20,256	2,427	3,157	956	931
Indiana	47,504	44,821	6.0%	35,282	34,699	10,583	8,503	344	253	1,294	1,365
Michigan	77,374	52,783	47.0%	22,601	13,339	49,223	35,221	1,464	1,148	4,085	3,074
Ohio	73,853	71,905	2.7%	19,372	18,990	53,998	52,403	NM	350	85	162
Wisconsin	42,952	31,295	37.0%	39,720	29,043	2,286	1,666	346	263	601	323
West North Central	50,649	38,062	33.0%	41,602	32,682	6,577	3,706	1,357	996	1,112	677
Iowa	6,276	5,062	24.0%	5,730	4,648	NM	NM	NM	182	NM	NM
Kansas	4,160	3,760	11.0%	3,745	3,579	0	0	0	0	415	180
Minnesota	22,570	15,423	46.0%	18,206	13,187	3,285	1,387	817	654	262	194
Missouri	12,703	10,796	18.0%	9,107	8,306	3,291	2,319	288	159	NM	NM
Nebraska	978	685	43.0%	901	664	0	0	NM	NM	NM	NM
North Dakota	1,417	846	67.0%	1,369	808	0	0	0	0	NM	38
South Dakota	2,545	1,490	71.0%	2,545	1,490	0	0	0	0	0	0
South Atlantic	721,433	651,517	11.0%	584,793	538,628	125,921	101,569	2,133	2,069	8,586	9,251
Delaware	16,364	16,131	1.4%	NM	NM	12,681	11,896	0	0	3,545	4,121
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	360,050	341,960	5.3%	331,043	323,315	26,067	15,638	NM	NM	2,859	2,960
Georgia	114,964	104,323	10.0%	81,770	72,502	32,189	30,535	0	0	1,005	1,286
Maryland	12,710	7,915	61.0%	0	0	10,815	6,076	1,742	1,747	153	92
North Carolina	100,482	80,682	25.0%	89,911	72,327	10,246	8,094	23	7	302	254
South Carolina	33,876	31,926	6.1%	25,796	28,515	7,899	3,338	NM	NM	152	66
Virginia	80,120	66,489	21.0%	55,810	41,493	23,752	24,509	NM	NM	536	466
West Virginia	2,631	1,853	42.0%	326	364	2,271	1,483	0	0	34	NM
East South Central	279,164	265,297	5.2%	178,089	159,142	96,278	101,007	428	416	4,369	4,732
Alabama	122,992	124,760	-1.4%	40,404	35,127	79,848	86,514	0	0	2,740	3,119
Kentucky	20,378	14,855	37.0%	18,938	13,748	870	522	0	0	570	585
Mississippi	110,357	104,716	5.4%	94,044	89,995	15,537	13,949	NM	NM	741	738
Tennessee	25,437	20,966	21.0%	24,703	20,272	NM	NM	393	383	317	290
West South Central	785,131	795,745	-1.3%	256,512	242,311	372,653	406,329	2,602	2,425	153,365	144,680
Arkansas	29,637	40,017	-26.0%	14,912	9,404	14,038	29,805	NM	NM	680	801
Louisiana	172,453	152,587	13.0%	85,064	86,116	18,630	4,491	605	613	68,154	61,367
Oklahoma	76,279	77,392	-1.4%	55,184	52,666	20,755	24,431	NM	0	310	295
Texas	506,762	525,748	-3.6%	101,352	94,125	319,230	347,601	1,958	1,804	84,222	82,218
Mountain	209,395	169,600	23.0%	164,826	125,151	39,852	40,104	1,082	1,148	3,635	3,196
Arizona	61,110	43,115	42.0%	43,402	25,768	17,351	16,971	357	376	0	0
Colorado	29,698	23,622	26.0%	24,675	17,125	4,952	6,431	0	0	NM	NM
Idaho	7,769	4,808	62.0%	3,880	2,180	3,568	2,462	0	0	321	166
Montana	2,769	2,012	38.0%	2,558	1,865	NM	NM	0	0	0	0
Nevada	61,359	54,852	12.0%	56,913	50,240	3,721	3,890	NM	NM	559	536
New Mexico	25,188	23,831	5.7%	15,814	14,121	8,962	9,285	308	328	NM	NM
Utah	19,895	16,020	24.0%	17,373	13,752	NM	NM	NM	NM	1,213	1,123
Wyoming	1,607	1,340	20.0%	NM	NM	NM	NM	0	0	1,368	1,209
Pacific Contiguous	248,010	265,832	-6.7%	101,976	106,889	122,141	134,855	4,048	4,108	19,845	19,980
California	194,764	225,403	-14.0%	70,550	83,608	101,216	118,233	3,660	3,800	19,339	19,762
Oregon	30,649	25,706	19.0%	11,622	9,858	18,379	15,444	NM	286	290	118
Washington	22,597	14,724	53.0%	19,804	13,423	2,546	1,178	NM	22	216	100
Pacific Noncontiguous	8,326	11,042	-25.0%	7,896	10,690	0	0	NM	NM	NM	343
Alaska	8,326	11,042	-25.0%	7,896	10,690	0	0	NM	NM	NM	343
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,060,044	2,856,027	7.1%	1,489,204	1,344,010	1,342,381	1,293,933	23,157	22,672	205,302	195,412

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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, April 2016 and April 2015 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	1,088	1,083	0.5%	0	0	1,025	1,003	NM	NM	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	NM	83	NM	0	0	NM	83	0	0	0	0
Massachusetts	411	402	2.4%	0	0	411	402	0	0	0	0
New Hampshire	NM	180	NM	0	0	NM	100	NM	NM	0	0
Rhode Island	304	323	-6.0%	0	0	304	323	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	5,427	5,179	4.8%	0	0	5,227	5,027	NM	NM	NM	122
New Jersey	969	955	1.4%	0	0	921	929	NM	NM	0	0
New York	1,743	1,702	2.4%	0	0	1,743	1,702	0	0	0	0
Pennsylvania	2,714	2,522	7.6%	0	0	2,563	2,396	NM	4	NM	122
East North Central	6,577	6,491	1.3%	732	731	5,737	5,707	NM	0	NM	NM
Illinois	1,445	1,545	-6.5%	0	0	1,445	1,545	0	0	0	0
Indiana	758	732	3.6%	720	704	NM	NM	0	0	NM	NM
Michigan	2,083	2,036	2.3%	0	0	2,083	2,036	0	0	0	0
Ohio	1,060	1,051	0.8%	0	NM	1,060	1,038	0	0	0	0
Wisconsin	1,231	1,126	9.3%	NM	NM	1,133	1,072	NM	0	NM	NM
West North Central	1,073	1,031	4.2%	318	296	755	735	0	0	0	0
Iowa	262	255	2.8%	0	0	262	255	0	0	0	0
Kansas	NM	150	NM	0	0	NM	150	0	0	0	0
Minnesota	363	360	1.1%	NM	78	290	282	0	0	0	0
Missouri	NM	142	NM	NM	93	NM	NM	0	0	0	0
Nebraska	158	125	27.0%	158	125	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	4,600	4,370	5.3%	503	488	3,537	3,530	NM	179	NM	172
Delaware	NM	158	NM	0	0	NM	132	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	626	651	-3.9%	178	164	447	487	0	0	0	0
Georgia	377	374	0.9%	0	0	311	304	0	NM	NM	NM
Maryland	NM	252	NM	0	0	NM	181	NM	NM	0	0
North Carolina	1,177	1,039	13.0%	0	0	1,001	984	NM	NM	0	0
South Carolina	534	467	14.0%	317	316	NM	NM	0	0	NM	115
Virginia	1,452	1,420	2.3%	NM	NM	1,414	1,396	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	528	517	2.1%	NM	211	313	306	0	0	0	0
Alabama	NM	94	NM	0	0	NM	94	0	0	0	0
Kentucky	227	223	1.9%	NM	211	NM	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	NM	175	NM	0	0	NM	175	0	0	0	0
West South Central	1,656	1,571	5.4%	0	0	1,572	1,537	NM	NM	0	0
Arkansas	NM	162	NM	0	0	NM	162	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	1,450	1,371	5.8%	0	0	1,366	1,337	NM	NM	0	0
Mountain	458	510	-10.0%	NM	83	439	427	0	0	0	0
Arizona	NM	152	NM	0	64	NM	88	0	0	0	0
Colorado	NM	106	NM	0	0	NM	106	0	0	0	0
Idaho	NM	NM	NM	NM	NM	NM	NM	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	143	NM	0	0	NM	143	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,190	5,381	-3.6%	790	746	3,173	3,182	1,227	1,453	0	0
California	4,070	4,308	-5.5%	280	251	2,618	2,642	1,172	1,415	0	0
Oregon	619	586	5.7%	NM	131	430	417	NM	NM	0	0
Washington	501	486	2.9%	376	364	NM	122	0	0	0	0
Pacific Noncontiguous	NM	NM	NM	0	0	0	0	NM	NM	0	0
Alaska	NM	NM	NM	0	0	0	0	NM	NM	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	26,741	26,169	2.2%	2,577	2,554	21,776	21,454	1,933	1,814	455	346

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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 April 2016 and April 2015 (Million Cubic Feet)

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	4,418	4,431	-0.3%	0	0	4,144	4,108	274	322	0	0
Connecticut	186	184	0.9%	0	0	186	184	0	0	0	0
Maine	334	329	1.3%	0	0	334	329	0	0	0	0
Massachusetts	1,612	1,585	1.7%	0	0	1,612	1,585	0	0	0	0
New Hampshire	726	719	1.0%	0	0	452	396	274	322	0	0
Rhode Island	1,362	1,418	-4.0%	0	0	1,362	1,418	0	0	0	0
Vermont	198	194	1.8%	0	0	198	194	0	0	0	0
Middle Atlantic	21,335	20,791	2.6%	0	0	20,538	20,014	311	273	486	504
New Jersey	3,853	3,880	-0.7%	0	0	3,655	3,696	NM	184	0	0
New York	6,829	6,715	1.7%	0	0	6,829	6,715	0	0	0	0
Pennsylvania	10,652	10,196	4.5%	0	0	10,054	9,602	NM	NM	486	504
East North Central	25,885	25,995	-0.4%	2,896	2,896	22,554	22,724	189	126	246	249
Illinois	5,679	6,115	-7.1%	0	0	5,679	6,115	0	0	0	0
Indiana	2,977	2,920	2.0%	2,825	2,781	NM	NM	0	0	NM	NM
Michigan	8,180	8,044	1.7%	0	0	8,180	8,044	0	0	0	0
Ohio	4,183	4,163	0.5%	NM	56	4,167	4,106	0	0	0	0
Wisconsin	4,865	4,753	2.4%	NM	NM	4,464	4,396	189	126	157	172
West North Central	4,235	4,090	3.5%	1,285	1,196	2,949	2,894	0	0	0	0
Iowa	1,022	1,003	1.9%	0	0	1,022	1,003	0	0	0	0
Kansas	603	591	1.9%	0	0	603	591	0	0	0	0
Minnesota	1,442	1,429	0.9%	311	318	1,131	1,111	0	0	0	0
Missouri	567	578	-1.8%	374	388	193	190	0	0	0	0
Nebraska	600	489	23.0%	600	489	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	18,248	18,262	-0.1%	1,898	1,951	14,061	13,965	1,169	1,272	1,120	1,074
Delaware	644	650	-0.9%	0	0	530	523	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,485	2,596	-4.3%	598	656	1,887	1,940	0	0	0	0
Georgia	1,488	1,662	-10.0%	0	0	1,220	1,200	0	216	268	245
Maryland	1,061	1,055	0.6%	0	0	727	721	334	333	0	0
North Carolina	4,625	4,467	3.5%	0	0	3,912	3,858	713	609	0	0
South Carolina	2,150	2,106	2.1%	1,269	1,263	143	142	0	0	739	701
Virginia	5,753	5,683	1.2%	NM	NM	5,600	5,538	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	2,074	2,042	1.5%	845	833	1,228	1,210	0	0	0	0
Alabama	378	372	1.7%	0	0	378	372	0	0	0	0
Kentucky	894	881	1.4%	845	833	NM	NM	0	0	0	0
Mississippi	NM	96	NM	0	0	NM	96	0	0	0	0
Tennessee	704	693	1.5%	0	0	704	693	0	0	0	0
West South Central	6,457	6,266	3.1%	0	0	6,167	6,068	290	197	0	0
Arkansas	651	636	2.2%	0	0	651	636	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	151	149	1.1%	0	0	151	149	0	0	0	0
Texas	5,656	5,480	3.2%	0	0	5,366	5,283	290	197	0	0
Mountain	1,861	2,014	-7.6%	146	331	1,715	1,683	0	0	0	0
Arizona	422	600	-30.0%	NM	252	354	348	0	0	0	0
Colorado	425	417	2.0%	0	0	425	417	0	0	0	0
Idaho	231	230	0.2%	NM	79	153	151	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	210	206	2.0%	0	0	210	206	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	573	561	2.1%	0	0	573	561	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	22,321	22,978	-2.9%	3,094	2,985	12,763	12,802	6,463	7,191	0	0
California	17,943	18,690	-4.0%	1,106	1,037	10,599	10,679	6,238	6,975	0	0
Oregon	2,425	2,373	2.2%	526	517	1,674	1,640	225	217	0	0
Washington	1,952	1,915	2.0%	1,462	1,431	490	484	0	0	0	0
Pacific Noncontiguous	585	509	15.0%	0	0	0	0	585	509	0	0
Alaska	585	509	15.0%	0	0	0	0	585	509	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	107,418	107,378	0.0%	10,165	10,191	86,120	85,469	9,280	9,891	1,852	1,827

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

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	300	293	2.3%	0	0	285	275	NM	18	0	0
Connecticut	107	95	12.0%	0	0	107	90	0	NM	0	0
Maine	23	20	13.0%	0	0	NM	8	NM	13	0	0
Massachusetts	161	169	-4.8%	0	0	161	169	0	0	0	0
New Hampshire	NM	9	NM	0	0	NM	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	404	400	0.8%	0	0	317	315	86	85	0	0
New Jersey	111	95	16.0%	0	0	84	65	27	30	0	0
New York	146	148	-1.4%	0	0	110	117	36	31	0	0
Pennsylvania	147	157	-6.3%	0	0	123	134	24	23	0	0
East North Central	21	20	2.9%	3	3	0	0	17	17	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	-19.0%	0	0	0	0	1	1	0	0
Michigan	17	16	5.2%	0	0	0	0	17	16	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	-3.1%	3	3	0	0	0	0	0	0
West North Central	55	54	1.7%	37	38	16	15	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	55	54	1.7%	37	38	16	15	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	483	391	24.0%	35	0	417	362	32	29	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	333	244	36.0%	35	0	298	244	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	67	67	-0.7%	0	0	67	67	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	84	79	5.4%	0	0	52	51	32	29	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	NM	0	--	0	0	0	0	0	0	NM	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	0	--	0	0	0	0	0	0	NM	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	NM	0	NM	0	0	NM	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	0	NM	0	0	NM	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	62	52	18.0%	0	0	62	52	0	0	0	0
California	41	33	24.0%	0	0	41	33	0	0	0	0
Oregon	NM	7	NM	0	0	NM	7	0	0	0	0
Washington	13	12	8.9%	0	0	13	12	0	0	0	0
Pacific Noncontiguous	39	30	29.0%	0	0	0	0	39	30	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	39	30	29.0%	0	0	0	0	39	30	0	0
U.S. Total	1,365	1,241	10.0%	75	41	1,097	1,020	191	180	NM	0

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

				Electric Power Sector							
Census Division and State	All Sectors			Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	1,168	1,163	0.5%	0	0	1,110	1,083	59	79	0	0
Connecticut	420	410	2.6%	0	0	420	388	0	22	0	0
Maine	90	87	2.7%	0	0	31	29	59	58	0	0
Massachusetts	623	632	-1.4%	0	0	623	632	0	0	0	0
New Hampshire	36	34	5.1%	0	0	36	34	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	1,634	1,586	3.0%	0	0	1,289	1,240	344	347	0	0
New Jersey	427	389	9.9%	0	0	313	270	114	119	0	0
New York	590	600	-1.6%	0	0	446	457	145	143	0	0
Pennsylvania	616	597	3.1%	0	0	530	513	86	85	0	0
East North Central	81	74	8.8%	12	12	0	0	69	62	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	3	3	-11.0%	0	0	0	0	3	3	0	0
Michigan	66	60	11.0%	0	0	0	0	66	60	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	12	12	2.2%	12	12	0	0	0	0	0	0
West North Central	200	178	13.0%	130	112	62	60	8	6	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	200	178	13.0%	130	112	62	60	8	6	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,778	1,560	14.0%	206	0	1,452	1,441	120	119	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	1,229	1,005	22.0%	206	0	1,023	1,005	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	248	237	4.8%	0	0	248	237	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	301	317	-5.3%	0	0	181	199	120	119	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	4	2	82.0%	0	0	0	0	0	0	4	2
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	4	2	82.0%	0	0	0	0	0	0	4	2
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	1	1	2.2%	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	2.2%	0	0	1	1	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	178	218	-18.0%	0	0	178	218	0	0	0	0
California	100	144	-30.0%	0	0	100	144	0	0	0	0
Oregon	30	28	4.9%	0	0	30	28	0	0	0	0
Washington	48	46	4.6%	0	0	48	46	0	0	0	0
Pacific Noncontiguous	132	120	10.0%	0	0	0	0	132	120	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	132	120	10.0%	0	0	0	0	132	120	0	0
U.S. Total	5,175	4,901	5.6%	348	124	4,091	4,042	732	733	4	2

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

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	3,306	3,967	-17.0%	185	276	2,637	3,101	NM	NM	481	564
Connecticut	187	150	25.0%	0	0	187	145	0	NM	0	0
Maine	1,785	1,983	-10.0%	0	0	1,303	1,415	0	NM	481	564
Massachusetts	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Hampshire	942	1,438	-35.0%	0	147	942	1,291	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	287	NM	NM	185	129	NM	NM	NM	NM	0	0
Middle Atlantic	855	1,170	-27.0%	0	0	572	684	0	0	283	485
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	636	768	-17.0%	0	0	572	680	0	0	64	87
Pennsylvania	218	402	-46.0%	0	0	0	NM	0	0	218	398
East North Central	2,116	2,244	-5.7%	394	261	772	1,017	0	NM	951	965
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,300	1,235	5.3%	0	0	723	694	0	1	577	540
Ohio	188	235	-20.0%	0	0	NM	NM	0	0	139	184
Wisconsin	628	774	-19.0%	394	261	0	NM	0	NM	234	241
West North Central	706	809	-13.0%	NM	NM	NM	449	24	12	153	200
Iowa	NM	NM	NM	0	0	0	0	NM	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	681	796	-14.0%	NM	NM	NM	449	0	0	153	200
Missouri	24	11	109.0%	0	0	0	0	24	11	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	7,477	9,916	-25.0%	1,500	1,214	1,496	3,118	NM	NM	4,464	5,566
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	767	1,870	-59.0%	0	0	NM	1,198	0	0	682	671
Georgia	1,757	3,080	-43.0%	0	0	358	613	0	0	1,399	2,467
Maryland	72	80	-9.9%	0	0	0	0	NM	NM	55	63
North Carolina	1,219	1,365	-11.0%	0	0	704	878	0	0	516	487
South Carolina	1,810	1,720	5.3%	253	194	NM	NM	0	0	1,284	1,204
Virginia	1,851	1,802	2.7%	1,247	1,021	76	108	0	0	528	674
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	2,877	3,172	-9.3%	NM	0	191	99	0	0	2,676	3,073
Alabama	1,734	1,937	-10.0%	NM	0	191	99	0	0	1,533	1,838
Kentucky	167	155	8.4%	0	0	0	0	0	0	167	155
Mississippi	624	701	-11.0%	0	0	0	0	0	0	624	701
Tennessee	351	380	-7.7%	0	0	0	0	0	0	351	380
West South Central	2,835	2,916	-2.8%	49	84	0	0	0	0	2,787	2,832
Arkansas	550	660	-17.0%	0	0	0	0	0	0	550	660
Louisiana	1,594	1,451	9.8%	0	0	0	0	0	0	1,594	1,451
Oklahoma	84	95	-11.0%	0	0	0	0	0	0	84	95
Texas	608	709	-14.0%	49	84	0	0	0	0	559	625
Mountain	891	705	26.0%	0	0	401	277	0	0	490	428
Arizona	303	171	78.0%	0	0	303	171	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	0	0
Idaho	510	449	14.0%	0	0	53	55	0	0	457	394
Montana	NM	NM	NM	0	0	0	0	0	0	NM	NM
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,121	5,696	-10.0%	402	432	3,248	3,586	0	0	1,471	1,677
California	3,406	3,702	-8.0%	0	0	3,063	3,359	0	0	343	343
Oregon	453	672	-33.0%	0	0	NM	NM	0	0	267	445
Washington	1,263	1,322	-4.5%	402	432	0	0	0	0	860	889
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	26,183	30,594	-14.0%	2,673	2,416	9,712	12,332	44	56	13,754	15,790

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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 April 2016 and April 2015 (Billion Btus)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	20,869	21,036	-0.8%	2,958	3,006	15,641	15,017	NM	NM	2,223	2,900
Connecticut	1,433	797	80.0%	0	0	1,433	773	0	NM	0	0
Maine	9,595	10,635	-9.8%	0	0	7,363	7,714	NM	NM	2,223	2,900
Massachusetts	608	635	-4.3%	0	0	608	635	0	0	0	0
New Hampshire	7,099	6,840	3.8%	1,423	1,533	5,676	5,308	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	2,133	2,129	0.2%	1,535	1,474	560	586	NM	NM	0	0
Middle Atlantic	4,756	4,730	0.5%	0	0	2,775	2,724	0	0	1,980	2,007
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	3,322	3,161	5.1%	0	0	2,771	2,708	0	0	551	454
Pennsylvania	1,434	1,569	-8.6%	0	0	NM	NM	0	0	1,430	1,553
East North Central	10,385	10,827	-4.1%	1,816	1,314	4,728	5,281	NM	NM	3,841	4,227
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	5,834	6,246	-6.6%	NM	NM	3,511	3,780	0	5	2,323	2,460
Ohio	760	1,003	-24.0%	0	0	209	214	0	0	551	790
Wisconsin	3,792	3,578	6.0%	1,816	1,314	1,009	1,287	NM	NM	968	977
West North Central	3,465	3,659	-5.3%	689	680	1,971	2,040	110	86	694	852
Iowa	NM	NM	NM	0	0	0	0	NM	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	3,355	3,576	-6.2%	689	680	1,971	2,040	0	4	694	852
Missouri	108	79	36.0%	0	0	0	0	108	79	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	40,680	43,921	-7.4%	7,256	6,312	9,695	12,918	71	72	23,658	24,618
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,679	7,736	-40.0%	0	0	1,958	4,937	0	0	2,721	2,799
Georgia	13,384	13,949	-4.1%	0	0	2,270	2,342	0	0	11,114	11,607
Maryland	268	334	-20.0%	0	0	0	0	71	72	196	262
North Carolina	4,780	5,288	-9.6%	0	0	2,923	2,939	0	0	1,856	2,349
South Carolina	8,007	7,923	1.1%	1,230	1,229	1,446	1,507	0	0	5,331	5,188
Virginia	9,563	8,691	10.0%	6,026	5,084	1,097	1,193	0	0	2,439	2,413
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	12,535	12,689	-1.2%	NM	NM	726	675	0	0	11,784	12,007
Alabama	7,593	7,856	-3.3%	NM	NM	726	675	0	0	6,842	7,174
Kentucky	642	630	1.8%	0	0	0	0	0	0	642	630
Mississippi	2,723	2,601	4.7%	0	1	0	0	0	0	2,723	2,601
Tennessee	1,577	1,601	-1.5%	0	0	0	0	0	0	1,577	1,601
West South Central	12,318	13,166	-6.4%	49	697	312	399	0	0	11,957	12,070
Arkansas	2,612	2,792	-6.5%	0	0	0	0	0	0	2,612	2,792
Louisiana	6,561	6,461	1.5%	0	0	0	0	0	0	6,561	6,461
Oklahoma	374	390	-4.1%	0	0	0	0	0	0	374	390
Texas	2,772	3,523	-21.0%	49	697	312	399	0	0	2,411	2,427
Mountain	3,218	3,017	6.7%	0	0	1,502	1,479	0	0	1,716	1,538
Arizona	1,034	1,003	3.1%	0	0	1,034	1,003	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	0	0
Idaho	1,813	1,630	11.0%	0	0	233	233	0	0	1,580	1,397
Montana	NM	141	NM	0	0	0	0	0	0	NM	141
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	22,711	24,345	-6.7%	1,688	1,632	15,129	16,178	0	0	5,894	6,534
California	15,526	16,562	-6.3%	0	0	14,089	15,089	0	0	1,437	1,472
Oregon	2,081	2,967	-30.0%	0	0	1,040	1,089	0	0	1,041	1,878
Washington	5,105	4,816	6.0%	1,688	1,632	0	0	0	0	3,417	3,184
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	130,937	137,390	-4.7%	14,479	13,649	52,481	56,710	228	276	63,749	66,754

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

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

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

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, April 2016 and 2015

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	April 2016	April 2015	Percentage Change	April 2016	April 2015	Percentage Change	April 2016	April 2015	Percentage Change
New England	1,785	1,154	54.7%	4,567	3,093	47.6%	0	0	--
Connecticut	W	W	W	1,628	1,031	57.9%	0	0	--
Maine	0	0	--	W	W	W	0	0	--
Massachusetts	W	W	W	1,812	1,190	52.3%	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	--	46	52	-11.8%	0	0	--
Middle Atlantic	W	6,711	W	5,359	4,410	21.5%	W	W	W
New Jersey	784	935	-16.1%	692	654	5.9%	0	0	--
New York	W	539	W	3,389	2,670	27.0%	0	0	--
Pennsylvania	W	5,237	W	1,278	1,086	17.6%	W	W	W
East North Central	42,353	34,536	22.6%	1,098	1,151	-4.6%	W	133	W
Illinois	10,688	9,343	14.4%	70	83	-15.6%	0	0	--
Indiana	11,629	10,300	12.9%	103	120	-14.1%	0	0	--
Michigan	5,653	4,758	18.8%	330	335	-1.5%	W	W	W
Ohio	9,877	5,697	73.4%	373	374	-0.5%	W	W	W
Wisconsin	4,505	4,437	1.5%	221	238	-6.8%	W	W	W
West North Central	32,671	25,670	27.3%	1,590	1,743	-8.7%	0	0	--
Iowa	8,205	4,129	98.7%	142	172	-17.3%	0	0	--
Kansas	4,850	3,929	23.5%	675	678	-0.6%	0	0	--
Minnesota	4,595	4,141	11.0%	128	138	-7.3%	0	0	--
Missouri	9,615	8,539	12.6%	398	430	-7.4%	0	0	--
Nebraska	W	3,040	W	167	238	-29.8%	0	0	--
North Dakota	1,788	W	W	34	41	-17.1%	0	0	--
South Dakota	W	W	W	47	45	2.4%	0	0	--
South Atlantic	35,923	30,289	18.6%	12,005	11,139	7.8%	W	W	W
Delaware	W	W	W	446	218	104.9%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	6,472	6,074	6.5%	5,255	5,630	-6.7%	83	W	W
Georgia	6,345	5,895	7.6%	840	868	-3.2%	0	0	--
Maryland	1,591	1,451	9.6%	796	718	10.8%	0	0	--
North Carolina	7,667	6,651	15.3%	1,181	1,117	5.7%	0	0	--
South Carolina	6,204	4,657	33.2%	687	713	-3.7%	0	0	--
Virginia	2,125	1,599	32.9%	2,659	1,734	53.4%	0	0	--
West Virginia	W	W	W	142	142	0.1%	W	W	W
East South Central	18,652	18,520	0.7%	1,852	2,049	-9.6%	W	W	W
Alabama	4,657	5,176	-10.0%	263	405	-35.1%	0	0	--
Kentucky	8,731	8,578	1.8%	246	253	-2.7%	W	W	W
Mississippi	1,427	1,486	-3.9%	575	580	-0.8%	0	0	--
Tennessee	3,836	3,281	16.9%	767	810	-5.3%	0	0	--
West South Central	34,401	28,878	19.1%	1,898	1,969	-3.6%	W	W	W
Arkansas	5,543	4,312	28.5%	W	W	W	0	0	--
Louisiana	3,611	3,468	4.1%	441	465	-5.2%	W	W	W
Oklahoma	6,126	4,417	38.7%	W	W	W	0	0	--
Texas	19,121	16,680	14.6%	1,175	1,225	-4.1%	0	0	--
Mountain	21,631	19,398	11.5%	363	417	-13.1%	W	W	W
Arizona	4,549	4,104	10.8%	120	137	-12.5%	0	0	--
Colorado	5,599	5,161	8.5%	111	131	-15.4%	0	0	--
Idaho	0	0	--	W	W	W	0	0	--
Montana	W	W	W	W	W	W	W	W	W
Nevada	1,138	1,313	-13.3%	W	W	W	0	0	--
New Mexico	W	W	W	34	37	-8.2%	0	0	--
Utah	4,466	3,487	28.1%	44	51	-13.9%	0	0	--
Wyoming	3,804	3,267	16.4%	27	34	-20.4%	0	0	--
Pacific Contiguous	W	W	W	337	339	-0.4%	0	0	--
California	0	0	--	158	156	1.8%	0	0	--
Oregon	W	W	W	W	W	W	0	0	--
Washington	W	W	W	W	W	W	0	0	--
Pacific Noncontiguous	W	W	W	2,291	2,686	-14.7%	0	0	--
Alaska	W	W	W	36	164	-78.3%	0	0	--
Hawaii	W	W	W	2,256	2,522	-10.6%	0	0	--
U.S. Total	196,163	167,681	17.0%	31,360	28,995	8.2%	1,182	912	29.6%

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

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

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**April 2016**	**April 2015**	**Percentage Change**	**April 2016**	**April 2015**	**April 2016**	**April 2015**
Coal (Thousand Tons)							
New England	1,785	1,154	54.7%	W	W	W	W
Middle Atlantic	W	6,711	W	0	0	W	6,711
East North Central	42,353	34,536	22.6%	27,180	23,209	15,173	11,327
West North Central	32,671	25,670	27.3%	32,671	25,670	0	0
South Atlantic	35,923	30,289	18.6%	W	27,554	W	2,735
East South Central	18,652	18,520	0.7%	18,652	18,520	0	0
West South Central	34,401	28,878	19.1%	21,092	17,068	13,309	11,810
Mountain	21,631	19,398	11.5%	20,542	W	1,089	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	W	W	W	W
U.S. Total	**196,163**	**167,681**	**17.0%**	**154,589**	**131,680**	**41,573**	**36,001**
Petroleum Liquids (Thousand Barrels)							
New England	4,567	3,093	47.6%	647	633	3,920	2,460
Middle Atlantic	5,359	4,410	21.5%	2,042	1,652	3,317	2,758
East North Central	1,098	1,151	-4.6%	822	848	276	303
West North Central	1,590	1,743	-8.7%	1,568	1,717	23	26
South Atlantic	12,005	11,139	7.8%	9,752	9,227	2,253	1,912
East South Central	1,852	2,049	-9.6%	W	W	W	W
West South Central	1,898	1,969	-3.6%	1,409	W	489	W
Mountain	363	417	-13.1%	W	386	W	31
Pacific Contiguous	337	339	-0.4%	233	244	104	94
Pacific Noncontiguous	2,291	2,686	-14.7%	W	W	W	W
U.S. Total	**31,360**	**28,995**	**8.2%**	**20,844**	**20,637**	**10,516**	**8,358**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	W	W	W	0	0	W	W
East North Central	W	133	W	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	83	W	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	**1,182**	**912**	**29.6%**	**W**	**776**	**W**	**136**

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 - April 2016

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

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 - April 2016

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2006	21,735,101	1,079,943	1.69	34.09	0.97	102.5	406,869	65,002	8.68	54.35	0.73	74.0
2007	21,152,358	1,054,664	1.77	35.48	0.96	98.6	375,260	60,068	9.59	59.93	0.71	62.6
2008	21,280,258	1,069,709	2.07	41.14	0.97	100.5	375,684	61,139	15.52	95.38	0.61	99.6
2009	19,437,966	981,477	2.21	43.74	1.01	102.8	330,043	54,181	10.25	62.47	0.54	104.8
2010	19,289,661	979,918	2.27	44.64	1.16	97.9	275,058	45,472	14.02	84.80	0.51	101.1
2011	18,675,843	956,538	2.39	46.65	1.19	100.0	216,752	36,158	19.94	119.54	0.60	116.1
2012	16,265,578	841,183	2.38	46.09	1.25	99.5	116,937	19,464	21.85	131.28	0.51	75.7
2013	15,906,809	823,222	2.34	45.33	1.29	93.7	123,964	20,413	20.56	124.90	0.46	76.5
2014	16,594,722	854,560	2.37	45.96	1.32	98.0	172,421	28,514	19.87	120.26	0.46	82.3
2015	14,877,850	769,866	2.22	42.99	1.30	101.5	148,763	24,512	11.47	69.74	0.51	75.1
Year 2014												
January	1,319,894	69,313	2.29	43.69	1.25	81.1	27,209	4,554	21.85	130.73	0.43	42.0
February	1,217,895	62,838	2.32	45.04	1.34	80.8	26,164	4,306	21.60	131.42	0.45	124.7
March	1,400,614	71,444	2.36	46.35	1.35	96.8	15,224	2,519	21.94	132.68	0.45	66.7
April	1,339,967	68,102	2.39	46.96	1.33	114.5	8,983	1,487	21.71	131.18	0.42	84.5
May	1,383,924	70,623	2.40	46.93	1.37	107.9	8,655	1,437	21.18	127.58	0.46	77.4
June	1,366,947	70,055	2.38	46.50	1.35	92.5	9,334	1,546	21.41	129.29	0.45	90.4
July	1,431,182	73,973	2.38	45.96	1.27	89.2	8,455	1,399	21.29	128.62	0.50	74.0
August	1,488,018	76,671	2.37	45.95	1.32	92.9	9,182	1,509	20.62	125.46	0.52	77.3
Sept	1,403,234	72,158	2.37	46.16	1.33	102.4	10,222	1,686	19.67	119.51	0.51	92.8
October	1,416,761	72,959	2.31	44.84	1.29	116.8	12,851	2,134	18.49	111.46	0.48	121.4
November	1,372,572	71,000	2.30	44.54	1.29	107.4	17,787	2,959	16.53	99.41	0.43	155.7
December	1,453,713	75,424	2.51	48.34	1.29	108.7	18,356	2,977	13.87	85.54	0.49	155.0
Year 2015												
January	1,398,063	72,404	2.29	44.17	1.29	99.2	13,202	2,182	12.74	77.12	0.57	59.2
February	1,157,768	60,083	2.26	43.55	1.30	87.7	20,151	3,312	12.59	76.71	0.51	35.7
March	1,218,245	62,520	2.26	44.07	1.29	104.5	15,756	2,602	W	W	0.70	125.7
April	1,164,607	59,958	2.23	43.41	1.33	120.1	9,123	1,515	13.17	79.48	0.43	86.2
May	1,209,862	61,852	2.26	44.27	1.35	105.5	11,087	1,828	12.56	76.29	0.45	93.5
June	1,183,203	60,901	2.25	43.80	1.37	86.3	9,793	1,618	13.56	82.09	0.49	81.4
July	1,289,251	67,423	2.21	42.32	1.25	86.1	8,752	1,446	12.57	76.19	0.48	64.0
August	1,375,298	71,012	2.23	43.22	1.30	94.0	9,220	1,542	12.06	72.84	0.47	74.8
Sept	1,341,110	69,499	2.22	42.77	1.30	104.7	14,419	2,366	9.70	59.07	0.49	120.8
October	1,266,451	65,867	2.14	41.24	1.26	119.2	13,158	2,152	9.13	55.82	0.44	121.3
November	1,166,128	60,780	2.15	41.32	1.25	119.4	14,087	2,296	8.94	54.93	0.53	115.6
December	1,107,863	57,567	2.16	41.55	1.29	111.3	10,015	1,653	8.82	53.49	0.42	89.2
Year 2016												
January	1,019,963	53,356	2.12	40.55	1.33	83.8	8,932	1,499	7.92	47.24	0.46	57.2
February	965,792	49,873	2.11	40.88	1.40	95.8	7,927	1,307	6.98	42.32	0.46	55.7
March	884,181	44,893	2.18	42.88	1.46	108.7	6,868	1,133	6.92	41.94	0.44	72.2
April	794,724	40,229	2.16	42.64	1.46	100.1	8,524	1,403	8.37	50.85	0.41	92.1
Year to Date												
2014	5,278,371	271,697	2.34	45.52	1.32	91.6	77,579	12,865	21.77	131.40	0.44	64.9
2015	4,938,684	254,965	2.26	43.82	1.30	101.5	58,232	9,611	12.71	77.10	0.56	57.3
2016	3,664,660	188,351	2.14	41.64	1.41	95.5	32,252	5,343	7.59	45.85	0.44	66.3
Rolling 12 Months Ending in April												
2015	16,255,035	837,827	2.34	45.45	1.31	101.4	153,074	25,259	W	W	0.51	79.9
2016	13,603,826	703,253	2.19	42.32	1.33	99.8	122,784	20,244	9.87	59.98	0.47	84.7

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

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- See the EIA-923 section of the Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

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

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2006	203,270	7,193	1.33	37.46	5.15	83.4	6,855,680	6,675,246	6.94	7.13	90.2	3.02
2007	161,091	5,656	1.51	43.02	5.07	77.5	7,396,233	7,200,316	7.11	7.30	90.4	3.23
2008	199,724	7,040	2.11	59.72	4.98	111.5	8,089,467	7,879,046	9.01	9.26	102.5	4.12
2009	197,921	6,954	1.61	45.89	4.63	119.3	8,319,329	8,118,550	4.74	4.86	102.3	3.04
2010	169,508	5,963	2.28	64.85	4.79	98.5	8,867,396	8,673,070	5.09	5.20	102.0	3.26
2011	171,100	5,980	3.03	86.78	5.01	98.2	9,250,652	9,056,164	4.72	4.83	103.8	3.29
2012	119,667	4,180	2.24	64.14	5.55	83.3	9,746,691	9,531,389	3.42	3.50	91.9	2.83
2013	132,474	4,660	2.18	61.95	5.41	73.5	8,721,114	8,503,424	4.33	4.44	89.7	3.09
2014	147,310	5,195	1.98	56.23	5.56	91.2	8,679,286	8,431,423	5.00	5.14	89.6	3.31
2015	135,648	4,779	1.87	52.95	5.26	87.7	10,178,706	9,843,170	3.22	3.33	89.7	2.65
Year 2014												
January	10,073	357	1.82	51.28	5.26	66.1	708,775	691,024	7.02	7.20	88.4	4.07
February	10,261	363	W	W	5.47	79.9	588,885	573,618	7.40	7.59	88.4	W
March	13,196	468	2.02	57.09	5.81	88.8	607,103	591,486	6.00	6.16	89.1	3.52
April	12,986	459	2.13	60.37	5.94	109.7	594,114	578,726	5.07	5.20	89.5	3.23
May	12,640	448	2.19	61.62	5.55	89.0	690,306	671,336	4.93	5.07	89.7	3.25
June	11,659	409	2.07	59.14	5.77	77.7	760,055	738,843	4.84	4.98	89.9	3.27
July	11,616	407	1.90	54.16	5.69	81.6	887,618	861,696	4.43	4.57	90.4	3.17
August	12,764	448	1.97	56.12	5.52	90.8	945,250	916,932	4.12	4.24	90.8	3.06
Sept	11,787	414	1.92	54.55	5.43	85.5	813,131	788,357	4.20	4.33	90.0	3.06
October	11,011	390	1.79	50.65	5.31	123.3	745,276	722,544	4.10	4.23	89.5	2.96
November	12,217	431	1.86	52.74	5.45	109.7	648,562	628,693	4.48	4.62	89.3	3.06
December	17,100	600	2.00	57.09	5.41	111.5	690,212	668,170	4.36	4.50	89.3	3.14
Year 2015												
January	13,724	484	2.03	57.48	5.23	89.7	758,731	735,038	4.10	4.23	88.9	2.93
February	9,660	338	1.79	51.07	5.30	60.9	691,341	669,546	4.68	4.83	89.2	3.20
March	9,506	338	2.03	57.09	5.17	79.5	753,516	729,499	3.54	3.66	89.3	W
April	11,059	392	1.99	56.16	5.01	93.3	716,775	693,083	3.09	3.20	90.2	2.58
May	11,883	419	2.05	58.07	5.24	94.4	786,889	760,832	3.14	3.24	90.2	2.64
June	9,380	330	1.89	53.88	5.57	78.2	934,429	902,609	3.12	3.22	90.3	2.66
July	12,797	451	1.93	54.69	5.08	85.9	1,094,467	1,057,757	3.11	3.22	90.8	2.63
August	11,327	396	1.85	52.86	5.02	79.0	1,073,235	1,038,238	3.11	3.21	90.4	2.62
Sept	13,033	458	1.76	50.19	5.13	93.7	938,770	907,301	3.06	3.16	90.0	2.58
October	10,836	380	W	W	5.09	96.1	832,943	804,172	2.91	3.01	89.1	W
November	11,781	416	1.61	45.64	5.61	112.3	784,419	759,145	2.65	2.73	89.6	2.38
December	10,661	378	1.59	44.81	5.75	103.8	813,191	785,951	2.59	2.68	88.4	2.36
Year 2016												
January	9,639	341	1.38	38.93	5.68	79.5	821,121	793,369	3.01	3.11	89.0	2.52
February	11,272	408	1.30	35.80	5.53	94.7	732,394	707,751	2.70	2.79	88.7	2.37
March	10,312	363	1.41	40.14	5.33	75.9	787,991	762,618	2.23	2.31	89.7	2.22
April	10,307	369	1.35	37.75	5.56	79.0	773,119	748,340	2.42	2.50	89.7	2.31
Year to Date												
2014	46,516	1,647	2.01	56.94	5.65	84.9	2,498,877	2,434,854	6.40	6.57	88.8	3.73
2015	43,950	1,552	1.97	55.67	5.18	80.0	2,920,364	2,827,166	3.84	3.97	89.4	2.88
2016	41,531	1,481	1.36	38.07	5.52	82.0	3,114,625	3,012,079	2.59	2.68	89.3	2.36
Rolling 12 Months Ending in April												
2015	144,744	5,100	1.97	55.83	5.41	89.5	9,100,772	8,823,736	4.23	4.37	89.7	W
2016	133,230	4,708	W	W	5.37	88.6	10,372,968	10,028,082	2.86	2.96	89.7	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 - April 2016

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2006	16,197,852	797,361	1.69	34.26	0.92	105.8	269,033	42,415	8.33	52.80	0.82	79.2
2007	15,561,395	767,377	1.78	36.06	0.92	100.3	216,349	34,026	9.24	58.73	0.77	59.8
2008	15,347,396	764,399	2.06	41.32	0.93	100.5	240,937	38,891	15.83	98.09	0.60	99.7
2009	14,402,019	719,253	2.22	44.47	0.99	103.4	202,598	32,959	10.44	64.18	0.51	103.5
2010	14,226,995	713,094	2.27	45.33	1.14	98.8	189,790	31,099	13.94	85.07	0.48	101.0
2011	13,871,559	699,353	2.40	47.67	1.16	101.5	144,255	23,859	20.30	122.72	0.53	114.5
2012	11,939,543	609,445	2.43	47.51	1.18	99.0	86,030	14,252	22.11	133.44	0.41	81.3
2013	11,595,328	592,772	2.38	46.51	1.23	92.9	78,101	12,814	21.09	128.57	0.43	76.2
2014	12,064,810	614,728	2.39	46.95	1.21	98.3	98,357	16,161	19.90	121.14	0.44	82.0
2015	11,219,729	577,055	2.25	43.74	1.19	105.0	89,904	14,724	11.30	69.02	0.46	77.0
Year 2014												
January	939,850	48,843	2.30	44.18	1.13	79.8	12,001	2,011	21.72	129.64	0.32	44.6
February	870,977	44,490	2.31	45.27	1.23	80.6	12,180	2,005	21.72	131.94	0.49	106.4
March	991,708	50,353	2.37	46.61	1.23	97.5	8,992	1,474	21.53	131.41	0.39	76.6
April	948,645	47,838	2.41	47.72	1.23	116.0	6,691	1,099	21.74	132.35	0.36	85.6
May	1,003,354	50,694	2.42	47.83	1.27	107.4	5,313	885	21.88	131.42	0.34	68.2
June	998,236	50,508	2.40	47.48	1.25	90.8	6,271	1,037	21.65	130.91	0.34	87.9
July	1,059,989	53,961	2.41	47.22	1.19	89.5	5,979	985	21.28	129.22	0.47	75.2
August	1,096,270	55,759	2.40	47.18	1.22	92.5	6,800	1,108	20.61	126.44	0.50	84.5
Sept	1,037,230	52,716	2.41	47.40	1.21	103.8	6,921	1,137	19.90	121.13	0.48	87.7
October	1,047,018	53,419	2.34	45.74	1.20	118.6	6,939	1,148	19.33	117.03	0.48	94.2
November	1,010,559	51,705	2.33	45.51	1.20	110.9	7,512	1,237	17.71	107.56	0.50	100.6
December	1,060,973	54,441	2.60	50.75	1.20	108.8	12,760	2,035	13.22	82.91	0.46	160.4
Year 2015												
January	1,036,958	53,439	2.30	44.72	1.20	103.5	8,826	1,452	11.80	71.71	0.57	69.0
February	864,004	44,588	2.26	43.75	1.20	91.6	8,601	1,406	11.71	71.64	0.47	37.9
March	927,684	47,541	2.26	44.10	1.20	110.3	10,165	1,669	12.11	73.85	0.52	132.3
April	878,588	45,081	2.26	44.01	1.22	122.2	6,578	1,082	13.26	80.56	0.39	86.7
May	923,980	47,039	2.29	44.97	1.23	107.9	7,247	1,180	12.33	75.72	0.46	92.6
June	905,477	46,233	2.27	44.47	1.25	89.9	7,498	1,234	13.66	82.96	0.46	87.5
July	976,543	50,671	2.24	43.10	1.13	88.7	6,277	1,028	12.47	76.13	0.40	66.8
August	1,035,462	53,072	2.26	44.06	1.19	96.7	5,726	946	11.75	71.15	0.42	65.1
Sept	1,005,631	51,566	2.26	44.05	1.19	108.2	7,101	1,158	9.75	59.76	0.38	91.5
October	951,213	49,116	2.19	42.34	1.15	123.3	5,910	970	9.43	57.50	0.44	78.5
November	880,076	45,573	2.20	42.46	1.14	125.0	8,563	1,387	8.80	54.37	0.57	99.8
December	834,115	43,135	2.21	42.69	1.17	112.2	7,413	1,211	8.52	52.13	0.37	98.1
Year 2016												
January	757,172	39,300	2.17	41.78	1.19	85.1	6,397	1,058	7.86	47.57	0.44	61.6
February	727,561	37,332	2.16	42.06	1.24	97.9	5,828	957	6.93	42.18	0.41	66.4
March	691,199	34,824	2.20	43.61	1.36	110.2	5,242	854	6.72	41.26	0.40	79.6
April	616,378	31,090	2.19	43.44	1.32	107.0	6,901	1,126	8.38	51.32	0.37	108.0
Year to Date												
2014	3,751,179	191,524	2.35	45.96	1.20	91.5	39,863	6,589	21.68	131.19	0.40	68.6
2015	3,707,233	190,650	2.27	44.17	1.20	105.7	34,170	5,609	12.15	74.05	0.50	67.3
2016	2,792,310	142,546	2.18	42.66	1.27	98.3	24,369	3,996	7.54	45.98	0.40	75.7
Rolling 12 Months Ending in April												
2015	12,020,863	613,854	2.37	46.40	1.21	103.0	92,664	15,182	16.28	99.37	0.47	82.3
2016	10,304,806	528,951	2.22	43.30	1.21	102.8	80,103	13,110	9.79	59.85	0.43	81.5

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

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

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2006	99,471	3,516	1.49	42.21	5.11	97.2	2,222,289	2,163,113	7.36	7.56	87.3	2.45
2007	84,812	2,964	1.73	49.57	5.09	105.6	2,378,104	2,315,637	7.47	7.67	84.6	2.61
2008	80,987	2,843	2.13	60.51	5.36	123.8	2,856,354	2,784,642	9.15	9.39	102.0	3.33
2009	109,126	3,833	1.68	47.84	5.02	138.8	3,033,133	2,962,640	5.50	5.63	101.8	2.87
2010	103,152	3,628	2.38	67.65	5.03	109.1	3,395,962	3,327,919	5.43	5.54	101.1	2.99
2011	99,208	3,445	3.08	88.73	5.17	99.9	3,571,348	3,507,613	5.00	5.09	101.8	3.08
2012	72,782	2,521	2.30	66.40	5.46	119.8	4,083,579	4,003,457	3.74	3.81	97.6	2.86
2013	99,088	3,463	2.11	60.30	5.34	101.6	3,939,408	3,851,241	4.49	4.59	97.0	2.99
2014	123,793	4,349	1.89	53.77	5.56	126.3	3,876,549	3,772,596	5.17	5.31	96.7	3.16
2015	115,651	4,059	1.77	50.44	5.23	129.8	4,662,350	4,510,926	3.52	3.64	95.1	2.66
Year 2014												
January	8,753	309	1.79	50.66	5.22	88.7	322,118	314,783	6.23	6.37	96.8	3.45
February	8,883	312	2.01	57.15	5.47	113.1	261,721	255,665	7.00	7.16	96.1	3.56
March	11,235	396	1.94	54.97	5.85	119.1	269,374	263,288	5.93	6.06	96.8	3.24
April	11,184	394	2.07	58.69	5.98	186.0	270,455	264,009	5.34	5.47	97.6	3.14
May	10,813	383	2.13	60.11	5.57	121.8	324,319	316,054	5.26	5.40	97.7	3.18
June	9,321	325	1.97	56.35	5.85	95.9	346,749	337,837	5.17	5.31	96.9	3.19
July	9,697	339	1.79	51.25	5.70	113.6	390,076	379,146	4.84	4.98	96.4	3.12
August	10,451	365	1.85	52.89	5.51	122.5	424,307	412,297	4.47	4.60	96.6	3.05
Sept	9,844	345	1.81	51.54	5.40	122.6	353,112	342,647	4.63	4.77	96.2	3.05
October	9,240	326	1.65	46.75	5.25	182.8	323,101	313,490	4.55	4.69	96.8	2.93
November	10,079	354	1.70	48.51	5.43	154.6	288,185	279,556	4.75	4.90	96.6	2.94
December	14,294	499	1.90	54.38	5.40	149.0	303,034	293,825	4.61	4.76	96.6	3.13
Year 2015												
January	11,509	404	1.94	55.36	5.21	129.1	339,941	329,825	4.25	4.38	96.1	2.83
February	8,617	301	1.72	49.17	5.31	90.5	319,671	310,056	4.59	4.73	94.8	2.94
March	7,949	283	1.95	54.67	5.16	144.7	341,334	330,809	3.78	3.90	95.4	2.74
April	8,845	313	1.95	55.11	4.92	146.8	329,072	318,796	3.48	3.59	96.8	2.64
May	10,125	357	1.98	56.26	5.21	136.5	359,488	347,975	3.50	3.62	97.0	2.68
June	7,485	262	1.73	49.60	5.62	111.4	439,136	424,467	3.47	3.59	94.9	2.72
July	11,256	395	1.86	52.91	5.04	118.3	502,578	485,114	3.46	3.59	94.7	2.68
August	9,787	342	1.76	50.54	4.92	109.8	487,563	471,677	3.46	3.57	94.4	2.67
Sept	12,216	429	1.72	49.08	5.09	145.7	424,428	410,359	3.40	3.52	94.2	2.62
October	9,542	333	1.77	50.65	5.05	143.8	378,083	364,363	3.25	3.37	94.9	2.51
November	9,986	351	1.46	41.60	5.64	198.2	362,897	351,814	2.98	3.07	96.0	2.46
December	8,335	291	1.34	38.45	5.76	126.4	378,160	365,672	2.95	3.05	93.6	2.47
Year 2016												
January	7,935	278	1.15	32.96	5.67	91.8	389,788	376,962	3.28	3.39	96.7	2.56
February	9,837	356	1.13	31.18	5.53	131.0	352,362	340,293	2.96	3.07	96.3	2.43
March	8,402	294	1.21	34.47	5.28	103.8	379,127	366,817	2.53	2.62	96.4	2.33
April	8,436	300	1.14	31.95	5.58	92.1	368,223	356,568	2.72	2.80	96.6	2.42
Year to Date												
2014	40,054	1,411	1.96	55.55	5.67	120.7	1,123,667	1,097,744	6.12	6.26	96.8	3.35
2015	36,921	1,300	1.89	53.72	5.15	123.4	1,330,018	1,289,486	4.02	4.15	95.8	2.79
2016	34,611	1,228	1.15	32.56	5.51	103.8	1,489,499	1,440,640	2.87	2.97	96.5	2.44
Rolling 12 Months Ending in April												
2015	120,660	4,238	1.87	53.16	5.40	127.3	4,082,900	3,964,338	4.53	4.67	96.4	2.98
2016	113,341	3,986	1.54	43.87	5.34	122.4	4,821,832	4,662,080	3.19	3.29	95.4	2.56

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

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

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 - April 2016

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2006	5,204,402	266,856	1.69	33.04	1.09	97.7	117,524	19,236	9.65	58.98	0.45	104.9
2007	5,275,454	273,216	1.71	33.11	1.06	97.5	125,025	20,486	10.49	64.01	0.45	85.0
2008	5,395,142	281,258	2.03	38.98	1.04	100.4	82,124	13,657	16.30	98.03	0.41	94.4
2009	4,563,080	240,687	2.11	39.94	1.06	101.1	68,030	11,408	10.02	59.76	0.37	102.0
2010	4,555,898	243,585	2.20	41.15	1.21	96.0	49,598	8,420	14.80	87.19	0.35	89.9
2011	4,292,284	233,295	2.28	41.95	1.25	95.9	41,599	7,096	20.30	119.01	0.50	106.9
2012	4,036,436	218,341	2.21	40.92	1.42	104.9	23,922	4,073	22.34	131.28	0.44	79.8
2013	4,032,431	217,572	2.20	40.95	1.48	99.1	43,432	7,205	19.71	118.88	0.45	110.1
2014	4,243,949	226,600	2.25	42.20	1.61	100.1	71,774	11,980	19.90	119.36	0.45	101.0
2015	3,468,061	184,440	2.11	39.65	1.63	97.1	54,504	9,075	11.64	70.10	0.46	86.1
Year 2014												
January	356,260	19,360	2.25	41.46	1.56	86.8	14,823	2,481	22.05	132.09	0.46	43.7
February	324,520	17,309	2.31	43.39	1.62	83.0	13,652	2,247	21.53	131.09	0.39	189.3
March	383,238	19,906	2.32	44.67	1.66	97.8	6,096	1,023	22.59	134.69	0.52	66.2
April	368,214	19,193	2.29	44.00	1.60	114.9	2,150	365	21.88	129.00	0.48	127.7
May	358,005	18,880	2.30	43.62	1.65	113.3	3,198	529	20.19	121.99	0.52	145.8
June	346,608	18,528	2.29	42.89	1.64	100.1	2,867	477	21.11	126.96	0.51	141.6
July	346,695	18,879	2.24	41.19	1.53	90.0	2,327	391	21.59	128.64	0.50	96.7
August	366,331	19,740	2.22	41.23	1.63	96.0	2,265	382	W	W	0.49	79.5
Sept	342,392	18,355	2.21	41.35	1.70	101.3	3,161	526	19.20	115.97	0.50	156.6
October	345,463	18,416	2.18	40.98	1.57	115.9	5,762	961	17.58	105.43	0.44	279.8
November	338,083	18,186	2.19	40.72	1.58	101.8	10,107	1,695	15.62	93.26	0.38	374.5
December	368,141	19,847	2.20	40.90	1.54	112.9	5,366	904	15.41	91.46	0.53	201.5
Year 2015												
January	343,021	18,177	2.21	41.66	1.54	92.8	4,217	703	15.12	90.54	0.49	57.2
February	279,974	14,887	2.24	42.12	1.59	81.6	11,144	1,839	13.15	79.88	0.51	36.9
March	272,637	14,193	2.23	42.80	1.58	94.2	3,984	672	13.53	80.54	0.49	119.8
April	270,997	14,215	2.12	40.48	1.64	122.9	2,298	391	12.86	75.93	0.46	125.4
May	270,576	14,133	2.14	41.00	1.76	104.6	3,782	639	13.02	77.29	0.41	138.6
June	262,292	13,988	2.16	40.52	1.76	79.4	2,101	353	13.29	79.16	0.48	95.5
July	295,075	15,969	2.10	38.81	1.64	81.6	2,125	360	12.81	75.83	0.47	69.2
August	323,784	17,230	2.12	39.81	1.66	90.6	3,367	575	12.56	75.45	0.48	134.0
Sept	319,898	17,245	2.05	38.10	1.66	100.2	6,831	1,129	9.45	57.02	0.47	232.0
October	300,888	16,121	1.98	37.04	1.60	115.3	6,918	1,128	8.69	53.34	0.41	305.3
November	270,113	14,513	1.97	36.65	1.57	112.7	5,354	881	9.09	55.30	0.45	223.5
December	258,807	13,769	1.96	36.87	1.63	117.9	2,381	406	9.60	56.21	0.45	93.9
Year 2016												
January	248,356	13,412	1.94	35.88	1.71	84.5	2,394	419	7.90	45.22	0.42	61.6
February	225,570	11,969	1.92	36.22	1.91	96.6	1,824	305	6.90	41.34	0.47	43.6
March	178,170	9,404	2.04	38.68	1.88	114.3	1,456	251	7.45	43.26	0.47	68.4
April	165,868	8,585	1.99	38.44	2.00	85.9	1,446	248	W	W	0.50	74.3
Year to Date												
2014	1,432,231	75,767	2.29	43.39	1.61	94.5	36,721	6,116	21.94	131.97	0.44	70.4
2015	1,166,628	61,472	2.20	41.76	1.58	95.4	21,644	3,604	13.54	81.53	0.50	50.9
2016	817,964	43,371	1.97	37.09	1.86	93.3	7,120	1,223	7.62	44.44	0.46	58.8
Rolling 12 Months Ending in April												
2015	3,978,346	212,304	2.22	41.65	1.60	100.8	56,697	9,468	W	W	0.48	92.4
2016	3,119,398	166,339	2.04	38.20	1.71	96.7	39,980	6,693	W	W	0.45	120.7

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

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2006	85,924	3,031	1.07	30.34	5.13	87.1	3,742,865	3,647,102	6.66	6.84	97.4	3.82
2007	56,580	1,994	1.02	28.95	4.88	69.3	4,097,825	3,990,546	6.92	7.11	97.2	4.06
2008	79,122	2,788	1.47	41.85	4.63	98.8	4,061,830	3,956,155	8.93	9.17	100.5	5.07
2009	49,619	1,732	1.31	37.63	3.87	93.6	4,087,573	3,987,721	4.30	4.41	100.7	3.18
2010	30,079	1,050	1.74	49.80	3.84	72.3	4,212,611	4,119,103	4.94	5.05	100.6	3.57
2011	33,643	1,175	2.54	72.85	4.55	84.6	4,252,040	4,158,617	4.62	4.72	100.8	3.52
2012	23,024	801	0.82	23.98	5.49	92.1	4,810,553	4,696,637	3.17	3.25	93.8	2.74
2013	16,150	575	W	W	5.39	65.6	4,025,263	3,917,898	4.25	4.36	92.8	W
2014	13,781	488	2.48	70.31	5.33	70.9	4,054,540	3,934,672	4.90	5.05	92.7	W
2015	14,550	524	2.45	68.22	5.26	67.0	4,777,264	4,617,157	2.93	3.03	93.7	W
Year 2014												
January	922	33	W	W	5.35	52.4	320,157	311,751	8.58	8.81	92.3	W
February	1,039	38	0.00	0.00	5.27	60.8	267,558	260,190	8.33	8.57	91.3	5.10
March	1,127	41	W	W	5.47	62.5	271,937	264,409	6.38	6.56	91.6	W
April	1,047	37	W	W	5.53	57.9	264,781	257,569	4.83	4.96	92.5	W
May	1,419	50	W	W	5.35	88.8	305,484	296,701	4.51	4.65	91.8	W
June	1,349	47	W	W	5.24	102.9	352,539	342,158	4.45	4.58	91.9	W
July	1,124	39	W	W	5.55	67.8	432,673	419,753	3.98	4.10	93.3	W
August	1,401	49	W	W	5.39	83.2	455,652	441,523	3.71	3.83	93.7	W
Sept	946	33	W	W	5.29	47.3	400,187	387,887	3.72	3.84	93.6	W
October	821	29	W	W	5.26	91.2	363,367	352,206	3.58	3.69	92.8	W
November	1,066	36	W	W	5.29	87.9	298,147	289,008	4.27	4.41	92.9	W
December	1,520	53	W	W	5.10	76.9	322,057	311,517	4.04	4.18	93.1	W
Year 2015												
January	1,427	52	W	W	5.10	77.4	357,604	346,044	4.05	4.18	93.3	W
February	562	20	W	W	4.53	30.2	313,724	303,386	5.17	5.34	93.8	W
March	956	34	W	W	4.81	48.7	350,620	339,122	3.36	3.48	93.5	W
April	1,501	54	W	W	4.95	79.5	329,881	318,305	2.65	2.75	93.9	W
May	1,348	48	W	W	5.17	69.2	366,927	354,389	2.75	2.84	93.3	W
June	1,237	44	W	W	5.22	68.9	433,601	418,650	2.69	2.78	93.9	W
July	1,119	40	W	W	5.30	58.6	526,867	509,889	2.71	2.80	94.2	W
August	1,289	45	W	W	5.62	67.3	519,586	502,592	2.72	2.81	94.0	W
Sept	432	16	W	W	5.44	22.3	452,689	437,288	2.69	2.79	93.8	W
October	1,295	47	W	W	5.38	71.5	399,445	386,113	2.55	2.63	93.3	W
November	1,643	59	W	W	5.35	82.7	358,246	346,015	2.31	2.39	93.3	W
December	1,742	65	W	W	5.70	178.7	368,074	355,362	2.20	2.28	93.4	W
Year 2016												
January	1,304	49	W	W	5.70	184.5	368,054	355,169	2.77	2.87	91.9	W
February	1,313	47	W	W	5.44	97.1	324,321	313,533	2.43	2.51	92.6	W
March	1,337	48	W	W	5.37	65.2	347,458	336,175	1.89	1.95	93.6	W
April	1,203	44	W	W	5.30	88.4	343,594	332,291	2.07	2.14	93.1	W
Year to Date												
2014	4,135	149	2.49	69.83	5.41	58.4	1,124,434	1,093,919	7.12	7.32	91.9	W
2015	4,447	159	2.35	65.65	4.92	59.1	1,351,829	1,306,857	3.79	3.92	93.6	W
2016	5,156	188	2.50	68.50	5.45	94.8	1,383,426	1,337,168	2.29	2.37	92.8	W
Rolling 12 Months Ending in April												
2015	14,092	498	W	W	5.18	70.9	4,281,935	4,147,610	3.93	4.06	93.2	W
2016	15,260	552	W	W	5.43	77.7	4,808,861	4,647,468	2.51	2.59	93.4	W

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PETROLEUM COKE - includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2006 - April 2016

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2006	12,207	518	2.63	61.95	2.51	27.5	798	137	13.50	78.70	0.17	15.5
2007	12,419	531	2.67	62.46	2.58	27.6	249	43	14.04	81.93	0.17	6.2
2008	43,997	2,009	2.65	58.12	1.73	99.4	3,800	633	17.84	107.10	0.37	102.0
2009	41,182	1,876	2.90	63.68	1.67	104.3	3,517	583	10.82	65.26	0.45	122.1
2010	37,778	1,747	2.82	61.06	1.77	101.6	2,395	400	15.24	91.25	0.38	106.3
2011	35,892	1,686	2.92	62.24	1.78	101.1	1,959	325	19.67	118.66	0.55	108.0
2012	4,427	192	3.41	78.71	2.75	13.2	247	43	W	W	0.00	11.0
2013	3,507	151	W	W	3.05	11.2	0	0	--	--	--	0.0
2014	4,096	182	W	W	2.50	17.1	0	0	--	--	--	0.0
2015	2,439	109	W	W	2.55	12.6	0	0	--	--	--	0.0
Year 2014												
January	400	18	W	W	3.06	13.3	0	0	--	--	--	0.0
February	407	18	W	W	2.91	13.7	0	0	--	--	--	0.0
March	526	24	2.98	66.22	2.39	20.1	0	0	--	--	--	0.0
April	640	30	2.70	58.40	1.24	36.2	0	0	--	--	--	0.0
May	475	21	W	W	2.54	29.1	0	0	--	--	--	0.0
June	116	5	W	W	2.88	6.3	0	0	--	--	--	0.0
July	261	11	W	W	2.52	13.2	0	0	--	--	--	0.0
August	159	7	W	W	2.96	9.4	0	0	--	--	--	0.0
Sept	306	13	W	W	2.56	21.1	0	0	--	--	--	0.0
October	313	14	W	W	2.72	23.9	0	0	--	--	--	0.0
November	229	10	W	W	3.00	12.3	0	0	--	--	--	0.0
December	264	12	W	W	2.96	13.0	0	0	--	--	--	0.0
Year 2015												
January	309	14	W	W	2.65	14.5	0	0	--	--	--	0.0
February	479	23	2.14	44.32	1.71	25.3	0	0	--	--	--	0.0
March	177	8	W	W	2.93	8.9	0	0	--	--	--	0.0
April	298	13	W	W	2.72	20.3	0	0	--	--	--	0.0
May	102	5	W	W	2.90	7.3	0	0	--	--	--	0.0
June	213	9	W	W	2.30	14.4	0	0	--	--	--	0.0
July	124	5	W	W	2.93	7.9	0	0	--	--	--	0.0
August	187	8	W	W	2.46	12.2	0	0	--	--	--	0.0
Sept	49	2	W	W	3.01	3.7	0	0	--	--	--	0.0
October	130	6	W	W	3.08	9.3	0	0	--	--	--	0.0
November	182	8	W	W	3.00	11.5	0	0	--	--	--	0.0
December	188	8	W	W	2.86	10.8	0	0	--	--	--	0.0
Year 2016												
January	139	6	W	W	2.87	7.8	0	0	--	--	--	0.0
February	124	5	W	W	2.84	6.7	0	0	--	--	--	0.0
March	163	7	W	W	3.03	9.3	0	0	--	--	--	0.0
April	9	0	W	W	2.98	0.8	0	0	--	--	--	0.0
Year to Date												
2014	1,973	89	2.94	65.40	2.26	19.2	0	0	--	--	--	0.0
2015	1,264	58	W	W	2.35	17.0	0	0	--	--	--	0.0
2016	434	19	W	W	2.92	6.6	0	0	--	--	--	0.0
Rolling 12 Months Ending in April												
2015	3,386	150	W	W	2.57	16.0	0	0	--	--	--	0.0
2016	1,610	70	W	W	2.81	8.6	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: Commerical Sector, 2006 - April 2016 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2006	0	0	--	--	--	0.0	21,369	20,819	8.33	8.55	30.7	6.42
2007	0	0	--	--	--	0.0	23,502	22,955	7.99	8.18	32.8	6.20
2008	370	14	2.14	58.36	5.53	135.3	71,670	69,877	9.01	9.24	105.5	6.94
2009	252	9	1.65	46.54	5.11	102.8	81,134	79,308	5.18	5.30	105.0	4.58
2010	410	15	2.19	60.59	5.67	122.5	92,055	90,130	5.39	5.51	105.1	4.83
2011	268	9	W	W	5.46	147.4	95,287	93,306	5.20	5.31	107.2	W
2012	0	0	--	--	--	0.0	18,315	18,008	5.88	5.98	16.2	W
2013	0	0	--	--	--	0.0	5,497	5,450	W	W	4.6	W
2014	0	0	--	--	--	0.0	5,849	5,795	W	W	4.9	W
2015	0	0	--	--	--	0.0	6,499	6,371	W	W	5.0	W
Year 2014												
January	0	0	--	--	--	0.0	423	418	W	W	3.1	W
February	0	0	--	--	--	0.0	314	310	W	W	3.6	W
March	0	0	--	--	--	0.0	359	355	W	W	4.2	W
April	0	0	--	--	--	0.0	439	435	W	W	5.4	W
May	0	0	--	--	--	0.0	491	486	W	W	5.4	W
June	0	0	--	--	--	0.0	440	437	W	W	4.6	W
July	0	0	--	--	--	0.0	476	472	W	W	4.4	W
August	0	0	--	--	--	0.0	625	619	W	W	5.4	W
Sept	0	0	--	--	--	0.0	555	551	W	W	5.4	W
October	0	0	--	--	--	0.0	580	575	W	W	5.9	W
November	0	0	--	--	--	0.0	476	472	W	W	5.1	W
December	0	0	--	--	--	0.0	672	666	W	W	6.7	W
Year 2015												
January	0	0	--	--	--	0.0	552	545	W	W	5.0	W
February	0	0	--	--	--	0.0	378	372	W	W	3.8	W
March	0	0	--	--	--	0.0	438	432	W	W	4.0	W
April	0	0	--	--	--	0.0	420	413	W	W	4.5	W
May	0	0	--	--	--	0.0	494	488	W	W	4.7	W
June	0	0	--	--	--	0.0	522	513	W	W	5.0	W
July	0	0	--	--	--	0.0	540	528	W	W	4.8	W
August	0	0	--	--	--	0.0	694	680	W	W	6.0	W
Sept	0	0	--	--	--	0.0	632	620	W	W	5.7	W
October	0	0	--	--	--	0.0	530	523	W	W	5.1	W
November	0	0	--	--	--	0.0	775	749	W	W	7.0	W
December	0	0	--	--	--	0.0	524	507	W	W	4.6	W
Year 2016												
January	0	0	--	--	--	0.0	1,241	1,203	W	W	10.5	W
February	0	0	--	--	--	0.0	488	477	W	W	4.6	W
March	0	0	--	--	--	0.0	620	610	W	W	5.7	W
April	0	0	--	--	--	0.0	578	567	W	W	5.5	W
Year to Date												
2014	0	0	--	--	--	0.0	1,534	1,518	W	W	3.9	W
2015	0	0	--	--	--	0.0	1,789	1,763	W	W	4.3	W
2016	0	0	--	--	--	0.0	2,927	2,857	W	W	6.7	W
Rolling 12 Months Ending in April												
2015	0	0	--	--	--	0.0	6,103	6,040	W	W	5.0	W
2016	0	0	--	--	--	0.0	7,638	7,465	W	W	5.8	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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- See the Technical Notes for fuel conversion factors.
- Totals may not equal the sum of components because of independent rounding.

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

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

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2006	320,640	15,208	2.03	42.76	1.47	60.2	19,514	3,214	7.57	45.95	1.30	21.2
2007	303,091	13,540	2.20	49.16	1.36	60.1	33,637	5,514	8.53	52.06	1.33	38.8
2008	493,724	22,044	2.72	60.96	1.28	100.7	48,822	7,958	12.50	76.69	1.01	109.0
2009	431,686	19,661	2.81	61.68	1.22	99.5	55,899	9,232	9.83	59.52	0.83	112.8
2010	468,991	21,492	2.75	60.08	1.26	87.2	33,276	5,554	13.21	79.15	0.93	125.6
2011	476,108	22,204	2.93	62.86	1.33	99.5	28,939	4,878	17.67	104.83	1.08	144.8
2012	285,172	13,206	3.02	65.24	1.33	65.8	6,739	1,095	W	W	1.52	40.8
2013	275,543	12,727	W	W	1.32	64.4	2,431	394	18.20	112.29	1.43	15.8
2014	281,867	13,050	W	W	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
2015	187,621	8,263	W	W	1.57	45.8	4,356	713	13.15	80.30	1.75	30.1
Year 2014												
January	23,384	1,093	W	W	1.29	61.0	385	62	18.67	115.30	1.30	15.0
February	21,991	1,020	W	W	1.33	62.5	332	53	20.18	125.46	1.04	19.1
March	25,143	1,161	2.92	63.25	1.41	67.2	135	22	20.74	127.74	1.16	9.3
April	22,469	1,042	3.09	66.66	1.31	70.8	142	23	17.86	110.18	1.60	14.8
May	22,090	1,028	W	W	1.27	66.3	144	23	17.67	109.00	1.70	13.6
June	21,987	1,014	W	W	1.40	65.9	197	32	18.15	111.64	1.79	19.5
July	24,237	1,122	W	W	1.29	70.6	149	24	16.89	103.81	1.54	16.2
August	25,258	1,165	W	W	1.35	73.2	117	19	W	W	1.59	14.2
Sept	23,305	1,073	W	W	1.28	71.5	140	23	17.75	108.43	1.86	14.5
October	23,967	1,110	W	W	1.35	74.9	150	25	16.21	98.83	1.56	14.8
November	23,701	1,098	W	W	1.37	70.7	169	28	17.46	105.26	1.42	15.1
December	24,334	1,125	W	W	1.30	68.4	230	38	14.15	85.81	1.33	22.4
Year 2015												
January	17,776	773	W	W	1.59	46.2	159	26	12.53	76.07	2.04	9.7
February	13,311	585	2.87	65.23	1.67	39.2	405	67	16.55	99.49	1.65	18.9
March	17,748	778	W	W	1.48	49.1	1,607	262	W	W	1.99	124.2
April	14,725	649	W	W	1.67	46.5	247	41	13.17	78.37	1.00	24.0
May	15,203	676	W	W	1.46	46.8	59	10	14.16	86.77	1.50	5.1
June	15,221	670	W	W	1.58	46.7	195	31	12.73	79.17	1.58	17.5
July	17,508	778	W	W	1.54	49.8	350	57	12.95	79.16	1.84	35.1
August	15,865	703	W	W	1.48	45.1	127	21	13.09	79.74	1.66	14.2
Sept	15,532	686	W	W	1.39	46.4	487	79	12.03	74.16	1.89	43.5
October	14,220	624	W	W	1.69	45.5	330	55	12.73	76.79	1.28	36.1
November	15,757	686	W	W	1.76	45.6	170	28	11.56	70.68	1.41	15.1
December	14,754	654	W	W	1.57	43.1	220	36	11.82	72.72	1.56	21.6
Year 2016												
January	14,296	638	W	W	1.51	41.5	142	23	10.87	67.07	1.55	11.6
February	12,538	566	W	W	1.62	39.4	274	45	8.45	51.85	1.10	25.8
March	14,648	658	W	W	1.42	47.5	170	28	8.30	51.02	1.13	24.3
April	12,469	554	W	W	1.59	51.1	177	29	W	W	1.35	23.2
Year to Date												
2014	92,987	4,316	2.93	63.20	1.34	65.2	994	161	19.34	119.65	1.24	14.8
2015	63,560	2,785	W	W	1.60	45.3	2,418	397	13.71	83.49	1.82	39.3
2016	53,952	2,416	W	W	1.53	44.4	763	125	9.00	55.07	1.24	20.4
Rolling 12 Months Ending in April												
2015	252,440	11,519	W	W	1.39	61.9	3,713	609	W	W	1.75	26.4
2016	178,013	7,893	W	W	1.55	45.6	2,701	441	W	W	1.53	22.4

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

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

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2006	17,875	646	1.63	45.05	5.43	42.7	869,157	844,211	7.02	7.22	75.7	5.64
2007	19,700	698	1.96	55.42	5.52	43.6	896,803	871,178	6.97	7.18	82.9	5.78
2008	39,246	1,396	3.34	93.84	4.92	117.9	1,099,613	1,068,372	8.95	9.22	111.9	7.10
2009	38,924	1,381	1.80	50.82	4.51	114.2	1,117,489	1,088,880	4.27	4.38	110.0	4.02
2010	35,866	1,269	2.46	69.38	4.90	100.5	1,166,768	1,135,917	4.64	4.77	110.4	4.24
2011	37,981	1,351	W	W	5.03	108.3	1,331,977	1,296,628	4.28	4.40	122.0	W
2012	23,861	858	2.62	72.96	5.86	42.2	834,245	813,288	2.97	3.05	70.8	W
2013	17,236	623	W	W	5.82	30.5	750,946	728,835	W	W	62.3	W
2014	9,736	358	W	W	5.83	23.2	742,347	718,360	W	W	62.7	W
2015	5,447	196	W	W	5.94	12.9	732,593	708,716	W	W	60.6	W
Year 2014												
January	398	15	W	W	5.87	11.7	66,078	64,072	W	W	60.7	W
February	339	13	W	W	5.95	11.2	59,291	57,453	W	W	64.6	W
March	834	31	W	W	5.76	24.3	65,433	63,434	W	W	67.2	W
April	755	28	W	W	5.88	19.7	58,439	56,714	W	W	63.4	W
May	408	15	W	W	5.78	11.7	60,012	58,094	W	W	63.1	W
June	990	36	W	W	5.66	25.6	60,327	58,411	W	W	64.0	W
July	794	29	W	W	5.79	20.2	64,393	62,325	W	W	62.9	W
August	912	34	W	W	5.80	25.1	64,667	62,493	W	W	62.0	W
Sept	997	36	W	W	5.92	27.6	59,277	57,273	W	W	60.5	W
October	950	34	W	W	5.92	33.0	58,228	56,273	W	W	59.5	W
November	1,071	40	W	W	5.83	33.3	61,753	59,657	W	W	63.3	W
December	1,286	47	W	W	5.86	36.1	64,449	62,162	W	W	62.3	W
Year 2015												
January	788	29	W	W	5.74	18.1	60,633	58,625	W	W	57.4	W
February	481	17	W	W	6.17	11.2	57,569	55,731	W	W	61.7	W
March	601	21	W	W	5.99	13.5	61,124	59,136	W	W	61.2	W
April	712	25	W	W	6.18	18.1	57,402	55,568	W	W	61.4	W
May	410	14	W	W	6.14	12.8	59,979	57,979	W	W	61.4	W
June	659	24	W	W	5.64	19.6	61,171	58,979	W	W	61.3	W
July	422	16	W	W	5.68	12.8	64,482	62,227	W	W	61.9	W
August	251	9	W	W	6.00	7.5	65,392	63,289	W	W	61.5	W
Sept	386	14	W	W	6.21	11.2	61,022	59,033	W	W	61.6	W
October	0	0	--	--	--	0.0	54,884	53,173	W	W	56.3	W
November	153	5	W	W	6.30	4.5	62,502	60,567	W	W	60.7	W
December	584	22	W	W	5.78	22.6	66,433	64,409	W	W	60.5	W
Year 2016												
January	400	15	W	W	5.94	15.0	62,039	60,035	W	W	57.9	W
February	122	4	W	W	6.10	4.1	55,223	53,448	W	W	55.9	W
March	574	21	W	W	5.88	17.7	60,786	59,017	W	W	59.0	W
April	669	25	W	W	5.81	27.0	60,724	58,914	W	W	60.2	W
Year to Date												
2014	2,327	86	W	W	5.84	17.0	249,242	241,673	W	W	63.9	W
2015	2,582	92	W	W	6.00	15.2	236,729	229,061	W	W	60.4	W
2016	1,764	65	W	W	5.88	15.6	238,773	231,413	W	W	58.3	W
Rolling 12 Months Ending in April												
2015	9,992	364	W	W	5.87	22.1	729,834	705,748	W	W	61.6	W
2016	4,629	169	W	W	5.88	12.7	734,637	711,069	W	W	59.9	W

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W = Withheld to avoid disclosure of individual company data.

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

- 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, April 2016 and 2015
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	85	99	-15.0%	10	53	73	45	0	0	1	1
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	5	7	-20.0%	0	0	4	6	0	0	1	1
Massachusetts	69	40	73.0%	0	0	69	40	0	0	0	0
New Hampshire	10	53	-81.0%	10	53	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,062	2,261	-53.0%	0	0	1,039	2,217	0	0	23	44
New Jersey	16	74	-79.0%	0	0	16	74	0	0	0	0
New York	16	113	-86.0%	0	0	0	81	0	0	16	32
Pennsylvania	1,031	2,074	-50.0%	0	0	1,024	2,062	0	0	7	12
East North Central	9,774	13,710	-29.0%	6,350	8,216	3,218	5,254	0	8	207	233
Illinois	2,566	4,453	-42.0%	792	677	1,633	3,612	0	0	141	164
Indiana	2,185	2,998	-27.0%	2,051	2,779	134	219	0	0	0	0
Michigan	1,836	2,170	-15.0%	1,801	2,140	35	20	0	8	0	2
Ohio	2,131	2,246	-5.2%	692	821	1,415	1,403	0	0	23	22
Wisconsin	1,057	1,844	-43.0%	1,014	1,799	0	0	0	0	43	45
West North Central	7,253	11,030	-34.0%	7,181	10,941	0	0	0	5	71	83
Iowa	1,111	1,954	-43.0%	1,040	1,870	0	0	0	0	71	83
Kansas	729	1,595	-54.0%	729	1,595	0	0	0	0	0	0
Minnesota	512	1,403	-64.0%	512	1,403	0	0	0	0	0	0
Missouri	2,461	3,088	-20.0%	2,460	3,083	0	0	0	5	0	0
Nebraska	859	1,095	-21.0%	859	1,095	0	0	0	0	0	0
North Dakota	1,496	1,895	-21.0%	1,496	1,895	0	0	0	0	0	0
South Dakota	85	0	--	85	0	0	0	0	0	0	0
South Atlantic	6,802	8,939	-24.0%	5,927	7,824	802	1,017	0	0	73	97
Delaware	35	35	0.0%	0	0	35	35	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,032	1,691	-39.0%	1,007	1,654	24	38	0	0	0	0
Georgia	1,262	1,823	-31.0%	1,252	1,805	0	0	0	0	10	18
Maryland	456	522	-12.0%	0	0	439	498	0	0	18	24
North Carolina	548	1,365	-60.0%	548	1,365	0	0	0	0	0	0
South Carolina	679	874	-22.0%	672	874	0	0	0	0	8	0
Virginia	525	276	90.0%	465	204	34	45	0	0	26	26
West Virginia	2,264	2,352	-3.7%	1,983	1,922	270	401	0	0	11	29
East South Central	4,428	6,280	-29.0%	4,263	5,855	56	304	0	0	109	121
Alabama	1,018	1,757	-42.0%	1,018	1,757	0	0	0	0	0	0
Kentucky	2,795	3,609	-23.0%	2,795	3,609	0	0	0	0	0	0
Mississippi	111	359	-69.0%	54	55	56	304	0	0	0	0
Tennessee	505	556	-9.3%	395	435	0	0	0	0	109	121
West South Central	5,238	8,972	-42.0%	2,421	4,454	2,812	4,512	0	0	6	6
Arkansas	760	947	-20.0%	607	629	147	312	0	0	6	6
Louisiana	287	541	-47.0%	124	277	163	264	0	0	0	0
Oklahoma	613	1,247	-51.0%	515	1,122	98	125	0	0	0	0
Texas	3,578	6,237	-43.0%	1,175	2,426	2,403	3,811	0	0	0	0
Mountain	5,463	8,402	-35.0%	4,935	7,739	520	644	0	0	8	19
Arizona	979	1,574	-38.0%	979	1,574	0	0	0	0	0	0
Colorado	1,017	1,408	-28.0%	1,017	1,408	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	491	629	-22.0%	0	0	491	629	0	0	0	0
Nevada	139	124	12.0%	109	109	30	15	0	0	0	0
New Mexico	565	1,100	-49.0%	565	1,100	0	0	0	0	0	0
Utah	868	1,376	-37.0%	860	1,358	0	0	0	0	8	19
Wyoming	1,405	2,191	-36.0%	1,405	2,191	0	0	0	0	0	0
Pacific Contiguous	57	205	-72.0%	0	0	2	162	0	0	55	43
California	55	43	27.0%	0	0	0	0	0	0	55	43
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	2	162	-99.0%	0	0	2	162	0	0	0	0
Pacific Noncontiguous	66	59	11.0%	3	0	63	59	0	0	0	0
Alaska	3	0	--	3	0	0	0	0	0	0	0
Hawaii	63	59	5.5%	0	0	63	59	0	0	0	0
U.S. Total	40,229	59,958	-33.0%	31,090	45,081	8,585	14,215	0	13	554	649

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	592	1,021	-42.0%	10	193	577	808	0	0	5	19
Connecticut	85	251	-66.0%	0	0	85	251	0	0	0	0
Maine	31	58	-46.0%	0	0	26	39	0	0	5	19
Massachusetts	466	519	-10.0%	0	0	466	519	0	0	0	0
New Hampshire	10	193	-95.0%	10	193	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	5,881	9,592	-39.0%	0	0	5,750	9,437	0	0	131	155
New Jersey	180	387	-53.0%	0	0	180	387	0	0	0	0
New York	89	326	-73.0%	0	0	0	221	0	0	89	105
Pennsylvania	5,612	8,879	-37.0%	0	0	5,570	8,829	0	0	42	50
East North Central	41,224	57,506	-28.0%	25,337	34,434	15,062	22,145	0	11	825	916
Illinois	12,091	19,527	-38.0%	3,210	3,721	8,310	15,145	0	0	571	661
Indiana	9,720	12,695	-23.0%	9,012	11,818	708	877	0	0	0	0
Michigan	5,043	6,822	-26.0%	4,997	6,742	35	50	0	11	10	19
Ohio	9,479	10,729	-12.0%	3,377	4,564	6,008	6,073	0	0	94	92
Wisconsin	4,891	7,734	-37.0%	4,741	7,590	0	0	0	0	150	144
West North Central	35,631	46,978	-24.0%	35,216	46,547	0	0	19	47	395	384
Iowa	5,463	6,805	-20.0%	5,068	6,421	0	0	0	0	395	384
Kansas	3,787	6,300	-40.0%	3,787	6,300	0	0	0	0	0	0
Minnesota	3,657	6,469	-43.0%	3,657	6,454	0	0	0	14	0	0
Missouri	11,198	14,880	-25.0%	11,178	14,848	0	0	19	33	0	0
Nebraska	3,982	4,418	-9.9%	3,982	4,418	0	0	0	0	0	0
North Dakota	7,128	7,732	-7.8%	7,128	7,732	0	0	0	0	0	0
South Dakota	416	374	11.0%	416	374	0	0	0	0	0	0
South Atlantic	29,475	36,021	-18.0%	25,938	31,599	3,187	3,915	0	0	350	507
Delaware	106	128	-17.0%	0	0	106	128	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,191	6,050	-31.0%	4,142	5,961	49	90	0	0	0	0
Georgia	4,854	6,425	-24.0%	4,815	6,344	0	0	0	0	38	81
Maryland	1,330	2,056	-35.0%	0	0	1,245	1,934	0	0	85	122
North Carolina	3,213	5,262	-39.0%	3,213	5,262	0	0	0	0	0	0
South Carolina	3,100	3,803	-18.0%	3,042	3,754	0	0	0	0	58	49
Virginia	2,726	2,388	14.0%	2,451	2,029	159	234	0	0	116	126
West Virginia	9,955	9,908	0.5%	8,275	8,249	1,628	1,530	0	0	52	129
East South Central	19,851	25,207	-21.0%	18,522	23,530	872	1,167	0	0	456	510
Alabama	4,625	6,614	-30.0%	4,625	6,614	0	0	0	0	0	0
Kentucky	11,869	13,800	-14.0%	11,869	13,800	0	0	0	0	0	0
Mississippi	1,062	1,695	-37.0%	190	528	872	1,167	0	0	0	0
Tennessee	2,295	3,097	-26.0%	1,839	2,588	0	0	0	0	456	510
West South Central	27,608	42,617	-35.0%	13,584	22,944	14,001	19,645	0	0	23	28
Arkansas	4,003	5,208	-23.0%	3,323	4,171	658	1,009	0	0	23	28
Louisiana	1,931	3,604	-46.0%	1,442	1,931	488	1,673	0	0	0	0
Oklahoma	3,158	6,457	-51.0%	2,838	6,011	320	446	0	0	0	0
Texas	18,516	27,348	-32.0%	5,981	10,831	12,535	16,517	0	0	0	0
Mountain	26,436	34,023	-22.0%	23,621	31,047	2,782	2,925	0	0	33	50
Arizona	4,239	7,310	-42.0%	4,239	7,310	0	0	0	0	0	0
Colorado	4,979	6,336	-21.0%	4,979	6,336	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2,666	2,805	-5.0%	0	0	2,666	2,805	0	0	0	0
Nevada	321	459	-30.0%	204	338	116	120	0	0	0	0
New Mexico	2,981	3,772	-21.0%	2,981	3,772	0	0	0	0	0	0
Utah	3,969	5,013	-21.0%	3,936	4,963	0	0	0	0	33	50
Wyoming	7,282	8,329	-13.0%	7,282	8,329	0	0	0	0	0	0
Pacific Contiguous	1,269	1,763	-28.0%	235	355	837	1,192	0	0	197	216
California	197	216	-8.8%	0	0	0	0	0	0	197	216
Oregon	235	355	-34.0%	235	355	0	0	0	0	0	0
Washington	837	1,192	-30.0%	0	0	837	1,192	0	0	0	0
Pacific Noncontiguous	384	237	62.0%	82	0	302	237	0	0	0	0
Alaska	82	0	--	82	0	0	0	0	0	0	0
Hawaii	302	237	28.0%	0	0	302	237	0	0	0	0
U.S. Total	188,351	254,965	-26.0%	142,546	190,650	43,371	61,472	19	58	2,416	2,785

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	3	83	-97.0%	0	1	1	82	0	0	2	0
Connecticut	0	44	-100.0%	0	0	0	44	0	0	0	0
Maine	3	2	63.0%	0	0	1	1	0	0	2	0
Massachusetts	0	37	-100.0%	0	0	0	37	0	0	0	0
New Hampshire	0	1	-100.0%	0	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	31	91	-66.0%	2	0	27	91	0	0	2	1
New Jersey	0	5	-96.0%	0	0	0	5	0	0	0	0
New York	4	19	-81.0%	2	0	1	19	0	0	0	1
Pennsylvania	27	67	-59.0%	0	0	25	67	0	0	2	0
East North Central	44	68	-35.0%	29	55	14	10	0	0	1	3
Illinois	9	7	30.0%	2	2	8	5	0	0	0	0
Indiana	9	23	-61.0%	9	23	0	0	0	0	0	0
Michigan	8	13	-41.0%	7	12	0	0	0	0	0	1
Ohio	13	23	-42.0%	6	16	6	5	0	0	1	2
Wisconsin	5	2	133.0%	5	2	0	0	0	0	0	0
West North Central	20	38	-47.0%	20	38	0	0	0	0	0	0
Iowa	4	5	-35.0%	4	5	0	0	0	0	0	0
Kansas	0	20	-100.0%	0	20	0	0	0	0	0	0
Minnesota	1	1	1.3%	1	1	0	0	0	0	0	0
Missouri	9	7	32.0%	9	7	0	0	0	0	0	0
Nebraska	2	0	--	2	0	0	0	0	0	0	0
North Dakota	5	4	10.0%	5	4	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	445	316	41.0%	381	243	40	35	0	0	24	38
Delaware	11	2	537.0%	0	0	11	2	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	30	43	-30.0%	30	41	0	2	0	0	0	0
Georgia	27	20	35.0%	21	19	0	0	0	0	6	1
Maryland	10	19	-50.0%	0	0	10	19	0	0	0	0
North Carolina	15	5	207.0%	15	5	0	0	0	0	0	0
South Carolina	47	71	-34.0%	34	43	0	0	0	0	13	28
Virginia	291	153	91.0%	268	133	19	11	0	0	4	8
West Virginia	14	3	367.0%	14	3	0	0	0	0	0	0
East South Central	33	33	1.0%	33	33	0	0	0	0	1	0
Alabama	1	4	-87.0%	1	4	0	0	0	0	0	0
Kentucky	23	21	9.9%	23	21	0	0	0	0	0	0
Mississippi	1	4	-73.0%	1	4	0	0	0	0	0	0
Tennessee	9	4	114.0%	8	4	0	0	0	0	1	0
West South Central	62	41	50.0%	56	20	6	22	0	0	0	0
Arkansas	8	13	-33.0%	7	10	1	2	0	0	0	0
Louisiana	43	8	447.0%	43	8	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	10	21	-50.0%	6	2	5	19	0	0	0	0
Mountain	39	15	156.0%	37	13	2	2	0	0	0	0
Arizona	14	2	572.0%	14	2	0	0	0	0	0	0
Colorado	1	0	206.0%	1	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	2	-33.0%	0	0	1	2	0	0	0	0
Nevada	2	1	156.0%	2	0	1	1	0	0	0	0
New Mexico	11	9	30.0%	11	9	0	0	0	0	0	0
Utah	5	1	420.0%	5	1	0	0	0	0	0	0
Wyoming	4	1	469.0%	4	1	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	726	828	-12.0%	567	679	158	149	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	725	828	-12.0%	567	679	158	149	0	0	0	0
U.S. Total	1,403	1,515	-7.4%	1,126	1,082	248	391	0	0	29	41

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	32	949	-97.0%	4	12	26	906	0	0	2	31
Connecticut	5	113	-95.0%	0	0	5	113	0	0	0	0
Maine	12	480	-97.0%	0	0	10	448	0	0	2	31
Massachusetts	3	315	-99.0%	0	5	2	310	0	0	0	0
New Hampshire	4	30	-86.0%	4	7	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	256	2,298	-89.0%	15	848	233	1,446	0	0	7	4
New Jersey	4	48	-92.0%	0	0	4	48	0	0	0	0
New York	144	1,847	-92.0%	15	848	124	995	0	0	5	4
Pennsylvania	108	403	-73.0%	0	0	106	403	0	0	2	0
East North Central	324	413	-22.0%	221	295	94	101	0	0	8	17
Illinois	47	30	58.0%	10	9	37	21	0	0	0	0
Indiana	72	110	-35.0%	72	110	0	0	0	0	0	0
Michigan	57	66	-13.0%	55	63	0	0	0	0	2	3
Ohio	134	180	-26.0%	70	88	57	80	0	0	6	13
Wisconsin	14	27	-48.0%	14	25	0	0	0	0	0	1
West North Central	102	146	-30.0%	102	146	0	0	0	0	0	0
Iowa	23	19	20.0%	23	19	0	0	0	0	0	0
Kansas	10	46	-78.0%	10	46	0	0	0	0	0	0
Minnesota	7	6	12.0%	7	6	0	0	0	0	0	0
Missouri	37	52	-29.0%	37	52	0	0	0	0	0	0
Nebraska	2	0	--	2	0	0	0	0	0	0	0
North Dakota	21	17	23.0%	21	17	0	0	0	0	0	0
South Dakota	2	6	-61.0%	2	6	0	0	0	0	0	0
South Atlantic	1,354	2,075	-35.0%	983	1,280	268	452	0	0	104	344
Delaware	43	56	-22.0%	0	0	43	56	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	72	96	-26.0%	72	94	0	2	0	0	0	0
Georgia	136	168	-19.0%	85	68	30	75	0	0	21	25
Maryland	71	104	-32.0%	0	0	71	104	0	0	0	0
North Carolina	139	345	-60.0%	78	313	61	33	0	0	0	0
South Carolina	135	279	-51.0%	64	218	0	7	0	0	71	54
Virginia	692	977	-29.0%	619	539	63	172	0	0	11	266
West Virginia	65	50	30.0%	65	48	0	2	0	0	0	0
East South Central	164	214	-23.0%	150	187	10	27	0	0	3	1
Alabama	39	67	-41.0%	29	40	10	27	0	0	0	0
Kentucky	64	50	27.0%	64	50	0	0	0	0	0	0
Mississippi	12	9	33.0%	12	9	0	0	0	0	0	0
Tennessee	49	88	-45.0%	45	87	0	0	0	0	3	1
West South Central	108	145	-26.0%	94	90	14	55	0	0	0	0
Arkansas	26	37	-29.0%	24	27	2	10	0	0	0	0
Louisiana	45	62	-27.0%	43	47	2	15	0	0	0	0
Oklahoma	1	1	-1.7%	1	1	0	0	0	0	0	0
Texas	36	45	-21.0%	26	15	10	30	0	0	0	0
Mountain	117	145	-19.0%	110	138	7	6	0	0	0	0
Arizona	31	48	-36.0%	31	48	0	0	0	0	0	0
Colorado	8	5	60.0%	8	5	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	5	5	11.0%	0	0	5	5	0	0	0	0
Nevada	7	9	-27.0%	5	7	2	2	0	0	0	0
New Mexico	36	42	-13.0%	36	42	0	0	0	0	0	0
Utah	10	17	-44.0%	10	17	0	0	0	0	0	0
Wyoming	20	18	7.4%	20	18	0	0	0	0	0	0
Pacific Contiguous	2	1	223.0%	0	0	2	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	2	1	223.0%	0	0	2	1	0	0	0	0
Pacific Noncontiguous	2,884	3,224	-11.0%	2,317	2,613	567	611	0	0	0	0
Alaska	3	0	--	3	0	0	0	0	0	0	0
Hawaii	2,881	3,224	-11.0%	2,314	2,613	567	611	0	0	0	0
U.S. Total	5,343	9,611	-44.0%	3,996	5,609	1,223	3,604	0	0	125	397

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 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	121	88	39.0%	76	24	44	54	0	0	1	9
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	35	0	--	35	0	0	0	0	0	0	0
Michigan	40	32	25.0%	40	21	0	10	0	0	0	0
Ohio	44	44	-0.8%	0	0	44	44	0	0	0	0
Wisconsin	3	12	-73.0%	2	3	0	0	0	0	1	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	143	77	86.0%	119	61	0	0	0	0	23	16
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	119	61	96.0%	119	61	0	0	0	0	0	0
Georgia	23	16	48.0%	0	0	0	0	0	0	23	16
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	93	-100.0%	0	93	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	93	-100.0%	0	93	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	105	134	-22.0%	105	134	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	105	134	-22.0%	105	134	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	369	392	-6.0%	300	313	44	54	0	0	25	25

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 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	462	383	21.0%	255	193	188	159	0	0	18	31
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	162	89	81.0%	162	89	0	0	0	0	0	0
Michigan	87	109	-20.0%	87	96	0	13	0	0	0	0
Ohio	188	146	28.0%	0	0	188	146	0	0	0	0
Wisconsin	25	38	-34.0%	6	7	0	0	0	0	18	31
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	492	342	44.0%	445	281	0	0	0	0	47	62
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	445	281	59.0%	445	281	0	0	0	0	0	0
Georgia	47	62	-24.0%	0	0	0	0	0	0	47	62
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	180	-74.0%	47	180	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	47	180	-74.0%	47	180	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	480	647	-26.0%	480	647	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	480	647	-26.0%	480	647	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	1,481	1,552	-4.6%	1,228	1,300	188	159	0	0	65	92

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	29,939	26,173	14.0%	173	42	29,755	26,028	0	0	11	103
Connecticut	11,128	8,644	29.0%	0	0	11,128	8,644	0	0	0	0
Maine	1,449	1,056	37.0%	0	0	1,437	952	0	0	11	103
Massachusetts	10,787	10,691	0.9%	119	13	10,668	10,678	0	0	0	0
New Hampshire	3,612	3,310	9.1%	54	28	3,558	3,282	0	0	0	0
Rhode Island	2,963	2,472	20.0%	0	0	2,963	2,472	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	84,577	72,575	17.0%	6,932	4,620	77,466	67,786	0	0	179	168
New Jersey	22,702	16,526	37.0%	0	0	22,702	16,526	0	0	0	0
New York	30,072	26,035	16.0%	6,932	4,620	23,079	21,347	0	0	61	68
Pennsylvania	31,802	30,014	6.0%	0	0	31,685	29,913	0	0	118	100
East North Central	65,231	41,647	57.0%	27,450	16,722	36,431	24,031	410	308	941	586
Illinois	8,581	4,444	93.0%	822	170	7,757	4,273	0	0	2	2
Indiana	8,820	8,278	6.5%	6,274	6,581	2,546	1,697	0	0	0	0
Michigan	22,491	9,619	134.0%	8,420	2,164	13,125	6,777	410	308	537	370
Ohio	16,038	12,717	26.0%	4,192	2,022	11,838	10,657	0	0	8	38
Wisconsin	9,301	6,589	41.0%	7,742	5,786	1,164	627	0	0	395	176
West North Central	12,613	9,109	38.0%	10,099	6,969	2,353	2,032	158	105	3	3
Iowa	1,025	1,482	-31.0%	1,021	1,479	0	0	0	0	3	3
Kansas	865	571	52.0%	865	571	0	0	0	0	0	0
Minnesota	5,561	4,260	31.0%	4,423	3,671	1,138	588	0	1	0	0
Missouri	4,358	2,249	94.0%	2,986	701	1,215	1,444	158	104	0	0
Nebraska	269	207	30.0%	269	207	0	0	0	0	0	0
North Dakota	31	74	-59.0%	31	74	0	0	0	0	0	0
South Dakota	505	266	89.0%	505	266	0	0	0	0	0	0
South Atlantic	183,835	171,779	7.0%	147,796	142,419	33,007	26,278	0	0	3,033	3,082
Delaware	5,483	6,432	-15.0%	0	0	4,282	5,060	0	0	1,201	1,372
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	98,127	96,764	1.4%	91,055	92,945	7,072	3,819	0	0	0	0
Georgia	31,134	23,136	35.0%	20,530	16,118	9,918	6,068	0	0	686	950
Maryland	3,529	2,488	42.0%	0	0	3,328	2,468	0	0	201	20
North Carolina	23,903	19,168	25.0%	20,450	17,106	3,453	2,062	0	0	0	0
South Carolina	6,678	9,334	-28.0%	5,420	8,533	1,031	780	0	0	227	21
Virginia	13,819	13,654	1.2%	10,120	7,710	3,030	5,227	0	0	669	718
West Virginia	1,162	803	45.0%	221	7	892	796	0	0	49	0
East South Central	59,715	54,051	10.0%	40,980	32,519	18,037	21,010	0	0	697	522
Alabama	24,886	23,857	4.3%	8,324	5,708	16,562	18,148	0	0	0	0
Kentucky	4,475	3,822	17.0%	4,471	3,758	4	65	0	0	0	0
Mississippi	24,510	21,370	15.0%	23,039	18,573	1,471	2,797	0	0	0	0
Tennessee	5,845	5,002	17.0%	5,147	4,480	0	0	0	0	697	522
West South Central	222,240	215,009	3.4%	64,702	56,793	106,846	110,323	0	0	50,692	47,893
Arkansas	10,558	8,916	18.0%	2,313	1,803	8,048	6,774	0	0	197	339
Louisiana	42,850	39,337	8.9%	21,042	23,298	4,228	1,494	0	0	17,580	14,546
Oklahoma	20,173	16,752	20.0%	14,500	10,160	5,673	6,592	0	0	0	0
Texas	148,659	150,005	-0.9%	26,847	21,532	88,898	95,463	0	0	32,915	33,009
Mountain	50,879	43,534	17.0%	44,166	35,605	6,673	7,889	0	0	40	41
Arizona	18,510	13,328	39.0%	14,588	9,223	3,922	4,105	0	0	0	0
Colorado	8,235	5,537	49.0%	7,227	4,453	1,008	1,083	0	0	0	0
Idaho	437	1,063	-59.0%	40	545	398	519	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	13,413	14,606	-8.2%	13,413	14,606	0	0	0	0	0	0
New Mexico	5,289	5,373	-1.6%	3,987	3,194	1,302	2,179	0	0	0	0
Utah	4,987	3,624	38.0%	4,904	3,582	44	2	0	0	40	41
Wyoming	7	2	267.0%	7	2	0	0	0	0	0	0
Pacific Contiguous	38,150	57,886	-34.0%	13,108	21,788	21,724	32,928	0	0	3,318	3,170
California	33,851	46,188	-27.0%	10,926	15,242	19,607	27,775	0	0	3,318	3,170
Oregon	2,792	8,218	-66.0%	675	3,066	2,117	5,152	0	0	0	0
Washington	1,507	3,481	-57.0%	1,507	3,481	0	0	0	0	0	0
Pacific Noncontiguous	1,161	1,319	-12.0%	1,161	1,319	0	0	0	0	0	0
Alaska	1,161	1,319	-12.0%	1,161	1,319	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	748,340	693,083	8.0%	356,568	318,796	332,291	318,305	567	413	58,914	55,568

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

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) April 2016 and 2015 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	105,198	93,698	12.0%	282	172	104,856	93,294	0	0	59	232
Connecticut	39,462	34,585	14.0%	0	0	39,462	34,585	0	0	0	0
Maine	6,460	6,234	3.6%	0	0	6,401	6,003	0	0	59	232
Massachusetts	39,144	30,717	27.0%	228	141	38,916	30,576	0	0	0	0
New Hampshire	7,719	12,586	-39.0%	55	31	7,665	12,555	0	0	0	0
Rhode Island	12,412	9,576	30.0%	0	0	12,412	9,576	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	329,031	308,628	6.6%	27,200	25,795	301,070	282,054	0	0	760	779
New Jersey	87,971	72,366	22.0%	0	0	87,971	72,366	0	0	0	0
New York	111,152	118,014	-5.8%	27,200	25,795	83,623	91,938	0	0	328	282
Pennsylvania	129,908	118,247	9.9%	0	0	129,477	117,750	0	0	432	497
East North Central	267,948	210,882	27.0%	113,883	88,708	148,203	118,407	2,421	1,498	3,442	2,269
Illinois	34,415	19,226	79.0%	2,745	702	31,659	18,511	0	0	11	12
Indiana	45,608	40,309	13.0%	35,024	30,748	10,584	9,562	0	0	0	0
Michigan	73,458	50,428	46.0%	19,373	11,143	49,727	36,531	2,421	1,498	1,937	1,256
Ohio	72,480	69,287	4.6%	18,964	17,316	53,418	51,745	0	0	98	226
Wisconsin	41,987	31,633	33.0%	37,776	28,799	2,815	2,059	0	0	1,395	775
West North Central	44,392	34,061	30.0%	37,773	29,749	6,177	4,042	436	264	7	7
Iowa	7,442	5,645	32.0%	7,435	5,639	0	0	0	0	7	7
Kansas	2,786	2,548	9.3%	2,786	2,548	0	0	0	0	0	0
Minnesota	20,451	14,393	42.0%	17,147	12,685	3,303	1,641	1	67	0	0
Missouri	10,842	9,589	13.0%	7,533	6,991	2,874	2,401	435	197	0	0
Nebraska	576	547	5.4%	576	547	0	0	0	0	0	0
North Dakota	359	131	175.0%	359	131	0	0	0	0	0	0
South Dakota	1,937	1,209	60.0%	1,937	1,209	0	0	0	0	0	0
South Atlantic	713,098	640,730	11.0%	582,106	534,051	118,762	95,332	0	0	12,230	11,347
Delaware	16,312	15,980	2.1%	0	0	11,802	11,064	0	0	4,510	4,917
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	348,874	329,049	6.0%	327,914	317,656	20,960	11,394	0	0	0	0
Georgia	117,699	106,603	10.0%	82,163	72,748	31,937	30,382	0	0	3,599	3,472
Maryland	11,152	5,855	90.0%	0	0	10,461	5,769	0	0	691	85
North Carolina	100,022	80,089	25.0%	89,776	71,995	10,246	8,094	0	0	0	0
South Carolina	33,711	31,591	6.7%	25,742	28,666	7,195	2,684	0	0	774	241
Virginia	82,570	69,835	18.0%	56,194	42,748	23,894	24,455	0	0	2,481	2,631
West Virginia	2,758	1,728	60.0%	317	238	2,267	1,490	0	0	174	0
East South Central	273,216	259,361	5.3%	175,399	155,490	95,396	101,548	0	0	2,421	2,323
Alabama	114,010	116,781	-2.4%	35,521	29,938	78,489	86,843	0	0	0	0
Kentucky	19,837	15,272	30.0%	18,969	14,750	868	522	0	0	0	0
Mississippi	112,207	104,621	7.3%	96,167	90,439	16,040	14,183	0	0	0	0
Tennessee	27,163	22,687	20.0%	24,742	20,364	0	0	0	0	2,421	2,323
West South Central	867,816	891,318	-2.6%	249,446	235,376	419,792	455,898	0	0	198,578	200,045
Arkansas	31,667	42,353	-25.0%	14,729	9,169	16,017	31,653	0	0	920	1,531
Louisiana	175,115	154,336	13.0%	83,584	84,950	20,569	6,484	0	0	70,961	62,902
Oklahoma	75,725	76,625	-1.2%	55,013	52,274	20,713	24,351	0	0	0	0
Texas	585,309	618,004	-5.3%	96,120	88,984	362,493	393,409	0	0	126,696	135,611
Mountain	192,816	155,595	24.0%	159,184	121,815	33,345	33,601	0	0	288	178
Arizona	59,864	42,420	41.0%	42,644	25,696	17,220	16,724	0	0	0	0
Colorado	28,986	22,909	27.0%	24,542	17,049	4,444	5,860	0	0	0	0
Idaho	7,032	4,279	64.0%	3,667	1,983	3,365	2,297	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	57,128	50,416	13.0%	57,128	50,416	0	0	0	0	0	0
New Mexico	22,274	21,914	1.6%	14,066	13,229	8,208	8,685	0	0	0	0
Utah	17,507	13,632	28.0%	17,111	13,418	108	35	0	0	288	178
Wyoming	26	25	4.9%	26	25	0	0	0	0	0	0
Pacific Contiguous	213,765	227,343	-6.0%	90,568	92,780	109,568	122,681	0	0	13,630	11,882
California	165,652	189,378	-13.0%	62,256	70,764	89,767	106,731	0	0	13,630	11,882
Oregon	29,650	26,148	13.0%	11,091	10,198	18,559	15,950	0	0	0	0
Washington	18,464	11,817	56.0%	17,222	11,817	1,242	0	0	0	0	0
Pacific Noncontiguous	4,799	5,550	-14.0%	4,799	5,550	0	0	0	0	0	0
Alaska	4,799	5,550	-14.0%	4,799	5,550	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,012,079	2,827,166	6.5%	1,440,640	1,289,486	1,337,168	1,306,857	2,857	1,763	231,413	229,061

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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, April 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015
New England	W	W	W	3.94	4.01	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	3.94	4.01	-1.7%	3.94	4.01	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.10	2.41	-13.0%	--	--	2.10	2.41
New Jersey	W	3.87	W	--	--	W	3.87
New York	--	3.16	--	--	--	--	3.16
Pennsylvania	W	2.34	W	--	--	W	2.34
East North Central	2.07	2.21	-6.3%	2.17	2.32	1.88	2.02
Illinois	W	1.87	W	1.95	1.98	W	1.84
Indiana	W	W	W	2.22	2.32	W	W
Michigan	W	W	W	2.22	2.44	W	W
Ohio	2.03	W	W	1.96	2.19	2.06	W
Wisconsin	2.29	2.40	-4.6%	2.29	2.40	--	--
West North Central	1.73	1.71	1.2%	1.73	1.71	--	--
Iowa	1.65	1.61	2.5%	1.65	1.61	--	--
Kansas	1.70	1.68	1.2%	1.70	1.68	--	--
Minnesota	2.05	1.89	8.5%	2.05	1.89	--	--
Missouri	1.86	1.91	-2.6%	1.86	1.91	--	--
Nebraska	1.28	1.35	-5.2%	1.28	1.35	--	--
North Dakota	1.67	1.55	7.7%	1.67	1.55	--	--
South Dakota	2.23	--	--	2.23	--	--	--
South Atlantic	2.78	2.97	-6.4%	2.80	3.01	2.66	2.63
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.20	3.07	W	W
Georgia	2.82	2.92	-3.4%	2.82	2.92	--	--
Maryland	2.83	2.93	-3.4%	--	--	2.83	2.93
North Carolina	3.05	3.56	-14.0%	3.05	3.56	--	--
South Carolina	3.24	3.56	-9.0%	3.24	3.56	--	--
Virginia	W	W	W	2.90	2.92	W	W
West Virginia	2.35	W	W	2.37	2.40	2.15	W
East South Central	W	W	W	2.26	2.31	W	W
Alabama	2.60	2.46	5.7%	2.60	2.46	--	--
Kentucky	2.13	2.22	-4.1%	2.13	2.22	--	--
Mississippi	W	W	W	2.57	3.11	W	W
Tennessee	2.31	2.45	-5.7%	2.31	2.45	--	--
West South Central	1.86	2.00	-7.0%	2.07	2.12	1.65	1.86
Arkansas	W	W	W	2.15	2.40	W	W
Louisiana	W	W	W	2.34	2.57	W	W
Oklahoma	W	W	W	1.91	2.02	W	W
Texas	1.74	1.93	-9.8%	2.08	2.04	1.56	1.85
Mountain	W	W	W	1.88	1.91	W	W
Arizona	2.19	2.02	8.4%	2.19	2.02	--	--
Colorado	2.01	1.66	21.0%	2.01	1.66	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	2.01	2.75	W	W
New Mexico	1.61	2.35	-31.0%	1.61	2.35	--	--
Utah	1.97	1.95	1.0%	1.97	1.95	--	--
Wyoming	1.58	1.69	-6.5%	1.58	1.69	--	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.02	--	W	W
Alaska	3.02	--	--	3.02	--	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.15	2.23	-3.6%	2.19	2.26	1.99	2.12

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	W	3.65	W	3.94	3.81	W	3.60
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	3.94	3.81	3.4%	3.94	3.81	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.15	2.57	-16.0%	--	--	2.15	2.57
New Jersey	W	3.98	W	--	--	W	3.98
New York	--	3.16	--	--	--	--	3.16
Pennsylvania	W	2.49	W	--	--	W	2.49
East North Central	2.09	2.23	-6.3%	2.18	2.32	1.94	2.07
Illinois	W	1.95	W	1.98	2.03	W	1.93
Indiana	W	W	W	2.25	2.36	W	W
Michigan	W	W	W	2.29	2.52	W	W
Ohio	2.08	W	W	2.03	2.15	2.10	W
Wisconsin	2.19	2.35	-6.8%	2.19	2.35	--	--
West North Central	1.72	1.77	-2.8%	1.72	1.77	--	--
Iowa	1.61	1.65	-2.4%	1.61	1.65	--	--
Kansas	1.70	1.73	-1.7%	1.70	1.73	--	--
Minnesota	2.09	1.96	6.6%	2.09	1.96	--	--
Missouri	1.87	1.95	-4.1%	1.87	1.95	--	--
Nebraska	1.32	1.37	-3.6%	1.32	1.37	--	--
North Dakota	1.55	1.56	-0.6%	1.55	1.56	--	--
South Dakota	2.25	2.17	3.7%	2.25	2.17	--	--
South Atlantic	2.76	2.98	-7.4%	2.80	3.02	2.44	2.70
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.04	3.09	W	W
Georgia	2.87	2.97	-3.4%	2.87	2.97	--	--
Maryland	2.74	2.96	-7.4%	--	--	2.74	2.96
North Carolina	3.10	3.56	-13.0%	3.10	3.56	--	--
South Carolina	3.26	3.59	-9.2%	3.26	3.59	--	--
Virginia	W	W	W	2.93	3.03	W	W
West Virginia	W	2.35	W	2.32	2.40	W	2.09
East South Central	W	W	W	2.23	2.35	W	W
Alabama	2.46	2.43	1.2%	2.46	2.43	--	--
Kentucky	2.13	2.26	-5.8%	2.13	2.26	--	--
Mississippi	W	W	W	2.69	3.22	W	W
Tennessee	2.28	2.44	-6.6%	2.28	2.44	--	--
West South Central	1.93	2.07	-6.8%	2.18	2.17	1.66	1.94
Arkansas	W	W	W	2.27	2.24	W	W
Louisiana	W	W	W	2.65	2.75	W	W
Oklahoma	W	W	W	1.93	2.00	W	W
Texas	1.78	2.01	-11.0%	2.12	2.14	1.61	1.92
Mountain	W	W	W	1.87	1.91	W	W
Arizona	2.17	2.02	7.4%	2.17	2.02	--	--
Colorado	1.89	1.80	5.0%	1.89	1.80	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	1.95	2.71	W	W
New Mexico	1.88	2.40	-22.0%	1.88	2.40	--	--
Utah	1.95	1.96	-0.5%	1.95	1.96	--	--
Wyoming	1.60	1.59	0.6%	1.60	1.59	--	--
Pacific Contiguous	W	W	W	2.32	2.43	W	W
California	--	--	--	--	--	--	--
Oregon	2.32	2.43	-4.5%	2.32	2.43	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.11	--	W	W
Alaska	3.11	--	--	3.11	--	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.13	2.25	-5.3%	2.18	2.27	1.97	2.20

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015
New England	7.19	W	W	--	14.23	7.19	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	--	14.23	--	--	14.23	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	9.59	13.80	-31.0%	8.81	--	9.66	13.80
New Jersey	W	W	W	--	--	W	W
New York	W	W	W	8.81	--	W	W
Pennsylvania	9.55	13.82	-31.0%	--	--	9.55	13.82
East North Central	10.86	13.59	-20.0%	10.93	13.50	10.70	14.06
Illinois	10.54	14.13	-25.0%	9.78	13.84	10.71	14.23
Indiana	10.34	13.47	-23.0%	10.34	13.47	--	--
Michigan	10.03	13.39	-25.0%	10.03	13.39	--	--
Ohio	10.30	13.70	-25.0%	9.90	13.65	10.70	13.87
Wisconsin	15.04	13.23	14.0%	15.04	13.23	--	--
West North Central	9.04	13.02	-31.0%	9.04	13.02	--	--
Iowa	8.06	13.31	-39.0%	8.06	13.31	--	--
Kansas	--	12.88	--	--	12.88	--	--
Minnesota	10.19	14.19	-28.0%	10.19	14.19	--	--
Missouri	9.62	13.21	-27.0%	9.62	13.21	--	--
Nebraska	9.96	--	--	9.96	--	--	--
North Dakota	8.08	12.73	-37.0%	8.08	12.73	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	9.00	15.18	-41.0%	8.89	14.98	10.54	16.60
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	10.73	W	W	10.73	17.00	--	W
Georgia	9.47	13.70	-31.0%	9.47	13.70	--	--
Maryland	W	13.40	W	--	--	W	13.40
North Carolina	9.67	13.44	-28.0%	9.67	13.44	--	--
South Carolina	9.86	14.23	-31.0%	9.86	14.23	--	--
Virginia	W	W	W	8.41	14.85	W	W
West Virginia	10.93	W	W	10.93	14.57	--	W
East South Central	9.70	13.71	-29.0%	9.70	13.71	--	--
Alabama	11.33	13.97	-19.0%	11.33	13.97	--	--
Kentucky	9.59	13.83	-31.0%	9.59	13.83	--	--
Mississippi	10.36	12.95	-20.0%	10.36	12.95	--	--
Tennessee	9.81	13.49	-27.0%	9.81	13.49	--	--
West South Central	W	W	W	9.75	13.88	W	W
Arkansas	W	W	W	9.90	13.83	W	W
Louisiana	9.39	W	W	9.39	13.93	--	W
Oklahoma	--	--	--	--	--	--	--
Texas	W	W	W	12.18	13.99	W	W
Mountain	W	W	W	10.53	14.64	W	W
Arizona	9.87	13.49	-27.0%	9.87	13.49	--	--
Colorado	8.88	13.40	-34.0%	8.88	13.40	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	9.36	15.84	W	W
New Mexico	11.44	15.22	-25.0%	11.44	15.22	--	--
Utah	11.60	14.97	-23.0%	11.60	14.97	--	--
Wyoming	9.89	11.04	-10.0%	9.89	11.04	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	W	W	W	7.55	12.60	W	W
Alaska	11.54	--	--	11.54	--	--	--
Hawaii	W	W	W	7.55	12.60	W	W
U.S. Total	W	13.17	W	8.38	13.26	W	12.86

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NM = Not meaningful due to large relative standard error or excessive percentage change.
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Notes:
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See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum 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) April 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	9.81	W	W	9.76	17.45	9.82	W
Connecticut	8.59	15.86	-46.0%	--	--	8.59	15.86
Maine	W	W	W	--	--	W	W
Massachusetts	W	15.31	W	22.24	22.01	W	15.20
New Hampshire	9.31	W	W	9.31	13.73	--	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	7.32	12.67	-42.0%	8.28	9.81	7.26	14.64
New Jersey	W	18.16	W	--	--	W	18.16
New York	W	12.44	W	8.28	9.81	W	14.76
Pennsylvania	8.64	13.60	-36.0%	--	--	8.64	13.60
East North Central	9.14	13.97	-35.0%	9.06	13.98	9.33	13.97
Illinois	9.04	14.29	-37.0%	9.19	14.62	9.01	14.16
Indiana	9.14	13.98	-35.0%	9.14	13.98	--	--
Michigan	8.55	13.19	-35.0%	8.55	13.19	--	--
Ohio	8.82	13.89	-37.0%	8.23	13.87	9.54	13.92
Wisconsin	14.84	16.04	-7.5%	14.84	16.04	--	--
West North Central	8.26	12.92	-36.0%	8.26	12.92	--	--
Iowa	8.48	13.03	-35.0%	8.48	13.03	--	--
Kansas	7.68	12.94	-41.0%	7.68	12.94	--	--
Minnesota	9.53	13.74	-31.0%	9.53	13.74	--	--
Missouri	8.70	12.79	-32.0%	8.70	12.79	--	--
Nebraska	9.96	--	--	9.96	--	--	--
North Dakota	7.13	13.07	-45.0%	7.13	13.07	--	--
South Dakota	7.54	12.44	-39.0%	7.54	12.44	--	--
South Atlantic	W	15.23	W	8.44	14.90	W	16.33
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	9.65	W	W	9.65	16.18	--	W
Georgia	8.26	18.12	-54.0%	8.50	21.78	7.60	14.11
Maryland	7.17	11.42	-37.0%	--	--	7.17	11.42
North Carolina	W	W	W	8.49	14.43	W	W
South Carolina	9.78	14.94	-35.0%	9.78	14.94	--	--
Virginia	W	15.65	W	8.04	14.07	W	20.94
West Virginia	9.78	W	W	9.78	14.64	--	W
East South Central	W	W	W	8.57	12.99	W	W
Alabama	W	W	W	8.24	13.11	W	W
Kentucky	8.96	13.84	-35.0%	8.96	13.84	--	--
Mississippi	7.97	12.68	-37.0%	7.97	12.68	--	--
Tennessee	8.39	12.46	-33.0%	8.39	12.46	--	--
West South Central	9.29	13.49	-31.0%	9.38	13.41	8.68	13.62
Arkansas	W	W	W	8.87	14.30	W	W
Louisiana	W	W	W	9.39	12.13	W	W
Oklahoma	10.77	15.98	-33.0%	10.77	15.98	--	--
Texas	W	W	W	9.80	15.61	W	W
Mountain	W	W	W	9.76	15.01	W	W
Arizona	9.85	14.23	-31.0%	9.85	14.23	--	--
Colorado	8.99	15.24	-41.0%	8.99	15.24	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	10.46	17.59	W	W
New Mexico	9.57	15.46	-38.0%	9.57	15.46	--	--
Utah	9.81	15.28	-36.0%	9.81	15.28	--	--
Wyoming	10.09	14.60	-31.0%	10.09	14.60	--	--
Pacific Contiguous	W	W	W	--	--	W	W
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	6.76	11.20	W	W
Alaska	11.55	--	--	11.55	--	--	--
Hawaii	W	W	W	6.76	11.20	W	W
U.S. Total	7.56	12.66	-40.0%	7.54	12.15	7.62	13.54

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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, April 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	W	W	W	1.15	1.65	W	W
Illinois	--	--	--	--	--	--	--
Indiana	0.96	--	--	0.96	--	--	--
Michigan	1.30	W	W	1.30	1.65	--	W
Ohio	W	W	W	--	--	W	W
Wisconsin	1.68	1.65	1.8%	1.68	1.65	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.16	2.37	-51.0%	1.16	2.37	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.16	2.37	-51.0%	1.16	2.37	--	--
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	1.11	1.96	-43.0%	1.11	1.96	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.11	1.96	-43.0%	1.11	1.96	--	--
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	1.14	1.95	W	W

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 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	1.09	1.24	W	W
Illinois	--	--	--	--	--	--	--
Indiana	0.96	0.92	4.3%	0.96	0.92	--	--
Michigan	1.29	W	W	1.29	1.55	--	W
Ohio	W	W	W	--	--	W	W
Wisconsin	1.71	1.57	8.9%	1.71	1.57	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.21	2.35	-49.0%	1.21	2.35	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.21	2.35	-49.0%	1.21	2.35	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.61	1.74	-7.5%	1.61	1.74	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.61	1.74	-7.5%	1.61	1.74	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.09	1.92	-43.0%	1.09	1.92	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.09	1.92	-43.0%	1.09	1.92	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.33	1.94	-31.0%	1.15	1.89	2.50	2.35

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2016	April 2015	Percentage Change	April 2016	April 2015	April 2016	April 2015
New England	2.87	W	W	3.50	3.81	2.87	W
Connecticut	2.67	2.92	-8.6%	--	--	2.67	2.92
Maine	W	W	W	--	--	W	W
Massachusetts	2.91	3.26	-11.0%	3.66	3.92	2.90	3.26
New Hampshire	W	W	W	3.16	3.76	W	W
Rhode Island	W	3.31	W	--	--	W	3.31
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.85	2.31	-20.0%	1.94	2.54	1.84	2.30
New Jersey	1.68	2.33	-28.0%	--	--	1.68	2.33
New York	2.29	2.74	-16.0%	1.94	2.54	2.41	2.79
Pennsylvania	1.55	1.93	-20.0%	--	--	1.55	1.93
East North Central	2.18	2.64	-17.0%	2.37	2.85	2.02	2.49
Illinois	2.19	W	W	2.74	4.37	2.12	W
Indiana	W	W	W	2.46	2.66	W	W
Michigan	2.24	3.14	-29.0%	2.34	3.21	2.17	3.11
Ohio	1.90	2.07	-8.2%	2.21	2.49	1.79	1.99
Wisconsin	W	W	W	2.38	3.02	W	W
West North Central	2.32	W	W	2.35	3.26	2.14	W
Iowa	2.46	2.81	-12.0%	2.46	2.81	--	--
Kansas	3.06	4.11	-26.0%	3.06	4.11	--	--
Minnesota	W	W	W	2.37	3.29	W	W
Missouri	W	W	W	2.17	3.35	W	W
Nebraska	2.28	3.41	-33.0%	2.28	3.41	--	--
North Dakota	2.09	2.76	-24.0%	2.09	2.76	--	--
South Dakota	1.94	3.25	-40.0%	1.94	3.25	--	--
South Atlantic	3.13	3.89	-20.0%	3.28	4.00	2.15	2.78
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.54	4.27	W	W
Georgia	2.33	3.19	-27.0%	2.41	3.18	2.14	3.23
Maryland	2.29	2.47	-7.3%	--	--	2.29	2.47
North Carolina	W	W	W	3.35	4.22	W	W
South Carolina	W	W	W	3.17	3.41	W	W
Virginia	W	W	W	2.66	2.72	W	W
West Virginia	1.97	W	W	1.84	1.81	2.00	W
East South Central	2.19	2.91	-25.0%	2.17	2.90	2.27	2.92
Alabama	W	W	W	2.34	3.06	W	W
Kentucky	W	W	W	2.53	3.26	W	W
Mississippi	W	W	W	2.09	2.84	W	W
Tennessee	1.95	2.64	-26.0%	1.95	2.64	--	--
West South Central	2.09	2.78	-25.0%	2.20	2.95	2.01	2.68
Arkansas	W	W	W	2.88	3.53	W	W
Louisiana	W	W	W	2.18	2.98	W	W
Oklahoma	W	W	W	2.15	2.97	W	W
Texas	2.07	2.72	-24.0%	2.17	2.84	2.04	2.69
Mountain	2.39	3.29	-27.0%	2.40	3.29	2.23	3.25
Arizona	W	W	W	2.46	3.60	W	W
Colorado	W	W	W	2.62	3.86	W	W
Idaho	11.72	3.05	284.0%	11.72	3.05	--	--
Montana	--	--	--	--	--	--	--
Nevada	2.31	3.13	-26.0%	2.31	3.13	--	--
New Mexico	2.53	2.92	-13.0%	2.53	2.92	--	--
Utah	W	W	W	1.95	2.79	W	W
Wyoming	5.67	14.59	-61.0%	5.67	14.59	--	--
Pacific Contiguous	2.37	3.10	-24.0%	2.81	3.33	2.06	2.89
California	W	3.24	W	2.87	3.48	W	3.03
Oregon	W	2.56	W	2.49	2.71	W	2.47
Washington	2.54	3.28	-23.0%	2.54	3.28	--	--
Pacific Noncontiguous	6.44	5.43	19.0%	6.44	5.43	--	--
Alaska	6.44	5.43	19.0%	6.44	5.43	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.44	3.12	-22.0%	2.72	3.48	2.07	2.65

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	April 2016 YTD	April 2015 YTD	Percentage Change	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	3.70	8.34	-56.0%	3.34	11.80	3.70	8.33
Connecticut	4.55	7.72	-41.0%	--	--	4.55	7.72
Maine	W	W	W	--	--	W	W
Massachusetts	3.08	8.89	-65.0%	3.37	13.52	3.08	8.86
New Hampshire	W	W	W	3.23	3.91	W	W
Rhode Island	W	8.21	W	--	--	W	8.21
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.30	4.93	-53.0%	3.01	6.84	2.23	4.73
New Jersey	2.19	5.14	-57.0%	--	--	2.19	5.14
New York	2.82	5.64	-50.0%	3.01	6.84	2.75	5.25
Pennsylvania	1.93	4.10	-53.0%	--	--	1.93	4.10
East North Central	2.21	3.23	-32.0%	2.37	3.33	2.09	3.16
Illinois	2.30	3.57	-36.0%	2.59	4.32	2.27	3.54
Indiana	W	W	W	2.43	3.27	W	W
Michigan	2.28	3.58	-36.0%	2.42	3.49	2.23	3.61
Ohio	1.85	2.71	-32.0%	1.95	2.92	1.81	2.64
Wisconsin	W	W	W	2.49	3.55	W	W
West North Central	W	W	W	2.60	3.86	W	W
Iowa	2.46	3.62	-32.0%	2.46	3.62	--	--
Kansas	3.41	4.29	-21.0%	3.41	4.29	--	--
Minnesota	W	W	W	2.76	4.22	W	W
Missouri	W	W	W	2.26	3.44	W	W
Nebraska	2.44	3.85	-37.0%	2.44	3.85	--	--
North Dakota	2.18	2.81	-22.0%	2.18	2.81	--	--
South Dakota	2.00	2.92	-32.0%	2.00	2.92	--	--
South Atlantic	3.27	4.62	-29.0%	3.39	4.75	2.36	3.52
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	4.50	W	3.68	4.52	W	2.98
Georgia	2.49	W	W	2.50	3.43	2.47	W
Maryland	3.11	6.92	-55.0%	--	--	3.11	6.92
North Carolina	W	W	W	3.50	6.21	W	W
South Carolina	W	W	W	3.11	3.89	W	W
Virginia	W	W	W	3.00	6.74	W	W
West Virginia	W	W	W	1.82	3.33	W	W
East South Central	2.48	3.21	-23.0%	2.53	3.24	2.35	3.17
Alabama	2.44	W	W	2.48	3.21	2.42	W
Kentucky	W	W	W	2.78	3.98	W	W
Mississippi	W	W	W	2.58	3.13	W	W
Tennessee	2.22	3.20	-31.0%	2.22	3.20	--	--
West South Central	2.15	3.00	-28.0%	2.24	3.14	2.07	2.90
Arkansas	W	W	W	2.31	3.62	W	W
Louisiana	W	W	W	2.22	3.10	W	W
Oklahoma	W	W	W	2.28	3.16	W	W
Texas	2.13	2.95	-28.0%	2.24	3.12	2.09	2.91
Mountain	W	W	W	2.58	3.59	W	W
Arizona	W	3.76	W	2.64	3.85	W	3.08
Colorado	W	W	W	2.86	4.36	W	W
Idaho	2.52	3.20	-21.0%	2.52	3.20	--	--
Montana	--	--	--	--	--	--	--
Nevada	2.53	3.42	-26.0%	2.53	3.42	--	--
New Mexico	2.54	3.14	-19.0%	2.54	3.14	--	--
Utah	W	W	W	2.25	3.25	W	W
Wyoming	6.21	6.58	-5.6%	6.21	6.58	--	--
Pacific Contiguous	2.64	3.43	-23.0%	3.00	3.73	2.32	3.11
California	2.70	3.52	-23.0%	3.10	3.81	2.40	3.22
Oregon	W	2.87	W	2.17	3.11	W	2.71
Washington	W	3.86	W	3.23	3.86	W	--
Pacific Noncontiguous	6.40	5.60	14.0%	6.40	5.60	--	--
Alaska	6.40	5.60	14.0%	6.40	5.60	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.62	3.92	-33.0%	2.87	4.02	2.29	3.79

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

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	85	0.81	7.7	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	5	0.78	8.3	0	--	--	0	--	--
Massachusetts	69	0.54	7.6	0	--	--	0	--	--
New Hampshire	10	2.30	7.6	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	972	3.05	9.6	0	--	--	0	--	--
New Jersey	16	0.81	6.3	0	--	--	0	--	--
New York	16	1.49	6.7	0	--	--	0	--	--
Pennsylvania	941	3.11	9.7	0	--	--	0	--	--
East North Central	5,215	3.07	10.1	4,560	0.25	4.7	0	--	--
Illinois	766	3.83	20.5	1,800	0.24	4.6	0	--	--
Indiana	2,058	2.83	8.6	127	0.23	4.7	0	--	--
Michigan	115	2.10	7.6	1,721	0.28	4.6	0	--	--
Ohio	2,131	3.19	9.0	0	--	--	0	--	--
Wisconsin	145	2.30	7.8	912	0.24	5.0	0	--	--
West North Central	80	3.32	9.9	5,691	0.26	5.0	1,482	0.89	10.0
Iowa	22	3.40	7.5	1,089	0.23	4.8	0	--	--
Kansas	18	3.01	13.1	711	0.31	5.0	0	--	--
Minnesota	0	--	--	512	0.39	6.7	0	--	--
Missouri	40	3.41	9.7	2,421	0.22	4.6	0	--	--
Nebraska	0	--	--	859	0.29	5.4	0	--	--
North Dakota	0	--	--	14	0.37	4.2	1,482	0.89	10.0
South Dakota	0	--	--	85	0.40	5.7	0	--	--
South Atlantic	6,067	2.25	10.2	700	0.33	4.8	0	--	--
Delaware	35	2.50	7.6	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,032	2.15	8.5	0	--	--	0	--	--
Georgia	563	2.56	7.8	700	0.33	4.8	0	--	--
Maryland	456	2.18	9.3	0	--	--	0	--	--
North Carolina	548	1.50	10.1	0	--	--	0	--	--
South Carolina	679	1.67	9.0	0	--	--	0	--	--
Virginia	525	1.11	12.8	0	--	--	0	--	--
West Virginia	2,228	2.86	11.5	0	--	--	0	--	--
East South Central	3,218	2.55	9.1	1,154	0.25	5.0	56	0.34	12.3
Alabama	521	1.08	10.2	497	0.22	5.0	0	--	--
Kentucky	2,152	2.97	9.1	643	0.28	5.0	0	--	--
Mississippi	54	2.98	8.1	0	--	--	56	0.34	12.3
Tennessee	490	2.16	7.7	15	0.23	5.5	0	--	--
West South Central	110	2.13	17.4	2,617	0.28	5.2	2,511	0.96	16.6
Arkansas	6	0.69	9.3	754	0.25	5.3	0	--	--
Louisiana	47	3.35	9.6	224	0.34	5.4	16	0.51	14.9
Oklahoma	56	1.20	25.4	557	0.24	4.8	0	--	--
Texas	0	--	--	1,083	0.31	5.2	2,495	0.97	16.6
Mountain	1,929	0.61	14.0	3,535	0.47	7.5	0	--	--
Arizona	361	0.58	10.6	618	0.58	8.7	0	--	--
Colorado	148	0.47	9.8	869	0.32	5.6	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	491	0.65	10.4	0	--	--
Nevada	109	0.50	11.0	30	0.25	4.9	0	--	--
New Mexico	476	0.76	22.3	89	0.97	16.1	0	--	--
Utah	834	0.58	12.3	34	0.82	8.1	0	--	--
Wyoming	0	--	--	1,405	0.42	6.8	0	--	--
Pacific Contiguous	55	0.55	10.4	0	--	--	0	--	--
California	55	0.55	10.4	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	63	0.47	12.2	0	--	--	2	0.15	8.8
Alaska	0	--	--	0	--	--	2	0.15	8.8
Hawaii	63	0.47	12.2	0	--	--	0	--	--
U.S. Total	17,793	2.41	10.3	18,256	0.31	5.4	4,052	0.93	14.1

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

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

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

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, April 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	10	2.30	7.6	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	10	2.30	7.6	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	2,956	2.88	8.6	3,393	0.25	4.7	0	--	--
Illinois	135	3.54	11.0	657	0.21	4.5	0	--	--
Indiana	1,924	2.78	8.5	127	0.23	4.7	0	--	--
Michigan	80	2.36	7.9	1,721	0.28	4.6	0	--	--
Ohio	692	3.16	8.7	0	--	--	0	--	--
Wisconsin	124	2.43	7.6	889	0.24	5.0	0	--	--
West North Central	58	3.29	10.8	5,642	0.26	5.0	1,482	0.89	10.0
Iowa	0	--	--	1,040	0.23	4.8	0	--	--
Kansas	18	3.01	13.1	711	0.31	5.0	0	--	--
Minnesota	0	--	--	512	0.39	6.7	0	--	--
Missouri	39	3.41	9.7	2,421	0.22	4.6	0	--	--
Nebraska	0	--	--	859	0.29	5.4	0	--	--
North Dakota	0	--	--	14	0.37	4.2	1,482	0.89	10.0
South Dakota	0	--	--	85	0.40	5.7	0	--	--
South Atlantic	5,227	2.21	10.1	700	0.33	4.8	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,007	2.19	8.5	0	--	--	0	--	--
Georgia	552	2.59	7.8	700	0.33	4.8	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	548	1.50	10.1	0	--	--	0	--	--
South Carolina	672	1.68	9.1	0	--	--	0	--	--
Virginia	465	1.08	13.2	0	--	--	0	--	--
West Virginia	1,983	2.75	11.3	0	--	--	0	--	--
East South Central	3,109	2.62	9.1	1,154	0.25	5.0	0	--	--
Alabama	521	1.08	10.2	497	0.22	5.0	0	--	--
Kentucky	2,152	2.97	9.1	643	0.28	5.0	0	--	--
Mississippi	54	2.98	8.1	0	--	--	0	--	--
Tennessee	381	2.59	7.8	15	0.23	5.5	0	--	--
West South Central	47	3.35	9.6	1,808	0.26	5.1	566	1.15	18.4
Arkansas	0	--	--	607	0.25	5.3	0	--	--
Louisiana	47	3.35	9.6	61	0.27	5.9	16	0.51	14.9
Oklahoma	0	--	--	515	0.24	4.8	0	--	--
Texas	0	--	--	625	0.27	5.2	550	1.17	18.5
Mountain	1,921	0.61	14.1	3,014	0.45	7.1	0	--	--
Arizona	361	0.58	10.6	618	0.58	8.7	0	--	--
Colorado	148	0.47	9.8	869	0.32	5.6	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	109	0.50	11.0	0	--	--	0	--	--
New Mexico	476	0.76	22.3	89	0.97	16.1	0	--	--
Utah	826	0.58	12.4	34	0.82	8.1	0	--	--
Wyoming	0	--	--	1,405	0.42	6.8	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	2	0.15	8.8
Alaska	0	--	--	0	--	--	2	0.15	8.8
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	13,329	2.25	10.1	15,710	0.30	5.3	2,050	0.96	12.2

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

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

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

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

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	73	0.56	7.7	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	4	0.79	8.3	0	--	--	0	--	--
Massachusetts	69	0.54	7.6	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	949	3.08	9.6	0	--	--	0	--	--
New Jersey	16	0.81	6.3	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	934	3.12	9.7	0	--	--	0	--	--
East North Central	2,107	3.34	12.3	1,111	0.24	4.6	0	--	--
Illinois	522	3.95	26.6	1,111	0.24	4.6	0	--	--
Indiana	134	3.52	9.6	0	--	--	0	--	--
Michigan	35	1.44	6.7	0	--	--	0	--	--
Ohio	1,415	3.22	9.1	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	--	--	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	766	2.60	10.0	0	--	--	0	--	--
Delaware	35	2.50	7.6	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	24	0.84	10.1	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	439	2.19	8.8	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	34	0.90	7.8	0	--	--	0	--	--
West Virginia	234	3.90	12.9	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	56	0.34	12.3
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	56	0.34	12.3
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	56	1.20	25.4	810	0.34	5.3	1,946	0.91	16.2
Arkansas	0	--	--	147	0.25	5.1	0	--	--
Louisiana	0	--	--	163	0.36	5.2	0	--	--
Oklahoma	56	1.20	25.4	42	0.29	4.9	0	--	--
Texas	0	--	--	458	0.36	5.3	1,946	0.91	16.2
Mountain	0	--	--	520	0.62	10.0	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	491	0.65	10.4	0	--	--
Nevada	0	--	--	30	0.25	4.9	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	63	0.47	12.2	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	63	0.47	12.2	0	--	--	0	--	--
U.S. Total	4,015	3.01	11.3	2,441	0.35	5.9	2,002	0.90	16.1

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

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

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

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

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	0	--	--	0	--	--	0	--	--
Illinois	0	--	--	0	--	--	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	2.98	8.9	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	2.98	8.9	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	0	2.98	8.9	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, April 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	0.73	8.4	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	1	0.73	8.4	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	23	1.64	8.0	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	16	1.49	6.7	0	--	--	0	--	--
Pennsylvania	7	2.00	11.1	0	--	--	0	--	--
East North Central	152	3.20	9.3	55	0.58	6.1	0	--	--
Illinois	108	3.70	8.9	33	0.80	6.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	0.52	6.7	0	--	--	0	--	--
Ohio	23	2.61	11.1	0	--	--	0	--	--
Wisconsin	20	1.37	9.3	22	0.25	5.6	0	--	--
West North Central	22	3.40	7.5	49	0.18	4.4	0	--	--
Iowa	22	3.40	7.5	49	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	73	1.56	13.4	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	10	1.17	9.2	0	--	--	0	--	--
Maryland	18	1.99	22.1	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	8	0.75	6.3	0	--	--	0	--	--
Virginia	26	1.91	11.6	0	--	--	0	--	--
West Virginia	11	1.04	14.2	0	--	--	0	--	--
East South Central	109	0.81	7.3	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	109	0.81	7.3	0	--	--	0	--	--
West South Central	6	0.69	9.3	0	--	--	0	--	--
Arkansas	6	0.69	9.3	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	8	0.55	10.2	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	8	0.55	10.2	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	55	0.55	10.4	0	--	--	0	--	--
California	55	0.55	10.4	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	450	1.79	9.4	105	0.39	5.3	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 - April 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
Year to Date					
2014	481,509	427,645	316,607	2,700	1,228,461
2015	468,101	428,214	307,204	2,676	1,206,195
2016	434,795	420,912	302,565	2,519	1,160,791
Rolling 12 Months Ending in April					
2015	1,393,800	1,352,726	988,174	7,734	3,742,434
2016	1,366,578	1,351,117	953,924	7,502	3,679,122

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 - April 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
Year to Date					
2014	57,775	45,037	22,049	284	125,144
2015	57,639	44,638	20,697	277	123,251
2016	53,287	42,449	19,411	238	115,385
Rolling 12 Months Ending in April					
2015	176,042	144,855	69,502	804	391,203
2016	173,015	141,704	64,802	740	380,261

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 - April 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
Year to Date					
2014	12.00	10.53	6.96	10.51	10.19
2015	12.31	10.42	6.74	10.36	10.22
2016	12.26	10.09	6.42	9.45	9.94
Rolling 12 Months Ending in April					
2015	12.63	10.71	7.03	10.40	10.45
2016	12.66	10.49	6.79	9.86	10.34

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, April 2016 and 2015 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	3,325	3,539	3,993	4,109	1,350	1,448	45	50	8,714	9,145
Connecticut	900	993	993	1,020	262	272	15	19	2,170	2,303
Maine	360	371	299	304	219	262	0	0	879	937
Massachusetts	1,364	1,450	1,916	2,011	542	585	28	29	3,850	4,074
New Hampshire	340	359	350	347	157	157	0	0	848	863
Rhode Island	210	210	280	271	62	61	2	2	554	544
Vermont	151	158	155	156	108	111	0	0	414	425
Middle Atlantic	8,690	9,316	11,639	11,991	5,604	5,825	298	294	26,230	27,426
New Jersey	1,693	1,729	2,790	2,839	536	553	25	24	5,044	5,143
New York	3,374	3,679	5,645	5,837	1,408	1,470	212	211	10,639	11,196
Pennsylvania	3,623	3,908	3,204	3,316	3,660	3,802	61	60	10,547	11,086
East North Central	11,990	11,704	13,871	13,741	14,803	15,214	43	46	40,708	40,704
Illinois	2,812	2,769	3,828	3,715	3,327	3,305	37	40	10,004	9,829
Indiana	1,999	1,920	1,764	1,773	3,298	3,628	2	2	7,063	7,322
Michigan	2,305	2,254	2,969	2,935	2,499	2,462	0	0	7,774	7,651
Ohio	3,346	3,272	3,522	3,517	3,802	3,923	4	4	10,674	10,715
Wisconsin	1,527	1,489	1,789	1,801	1,878	1,896	0	0	5,193	5,186
West North Central	6,379	6,351	7,564	7,657	6,583	7,155	3	3	20,530	21,167
Iowa	920	883	895	898	1,728	1,696	0	0	3,543	3,477
Kansas	720	717	1,149	1,135	857	875	0	0	2,725	2,726
Minnesota	1,485	1,516	1,750	1,792	1,525	1,739	2	2	4,761	5,049
Missouri	1,960	1,943	2,240	2,272	914	1,287	2	2	5,116	5,503
Nebraska	617	612	702	717	768	784	0	0	2,087	2,113
North Dakota	348	352	463	469	586	558	0	0	1,398	1,380
South Dakota	329	328	365	373	206	217	0	0	900	918
South Atlantic	21,977	22,605	23,334	23,818	11,426	11,760	111	115	56,848	58,299
Delaware	301	271	303	379	149	172	0	0	753	822
District of Columbia	160	178	564	614	16	19	29	32	769	843
Florida	8,222	8,967	7,362	7,758	1,369	1,414	8	9	16,960	18,147
Georgia	3,350	3,361	3,541	3,579	2,586	2,586	13	13	9,491	9,540
Maryland	1,712	1,734	2,103	2,152	298	316	45	44	4,159	4,246
North Carolina	3,243	3,212	3,603	3,662	2,242	2,260	1	1	9,088	9,134
South Carolina	1,684	1,628	1,632	1,609	2,194	2,411	0	0	5,510	5,648
Virginia	2,598	2,580	3,648	3,504	1,499	1,536	15	16	7,760	7,636
West Virginia	708	674	579	562	1,072	1,046	0	0	2,359	2,282
East South Central	7,032	7,220	6,693	6,663	7,917	8,493	0	0	21,642	22,376
Alabama	1,855	1,870	1,701	1,704	2,615	2,773	0	0	6,171	6,348
Kentucky	1,610	1,610	1,416	1,373	2,250	2,524	0	0	5,276	5,506
Mississippi	1,050	1,107	999	1,029	1,371	1,334	0	0	3,419	3,469
Tennessee	2,517	2,633	2,577	2,557	1,682	1,862	0	0	6,776	7,053
West South Central	12,424	12,589	14,761	15,246	14,341	13,468	15	15	41,541	41,317
Arkansas	1,041	1,072	877	892	1,278	1,263	0	0	3,195	3,227
Louisiana	1,762	1,856	1,823	1,856	2,840	2,538	1	1	6,426	6,251
Oklahoma	1,267	1,249	1,486	1,554	1,377	1,383	0	0	4,130	4,185
Texas	8,354	8,412	10,575	10,944	8,847	8,284	14	14	27,790	27,655
Mountain	6,025	6,010	7,135	7,235	6,566	6,740	11	10	19,737	19,994
Arizona	1,962	1,967	2,214	2,250	1,203	1,107	0	1	5,380	5,324
Colorado	1,278	1,252	1,510	1,543	1,205	1,236	5	5	3,998	4,036
Idaho	552	568	471	467	573	747	0	0	1,596	1,782
Montana	369	364	382	394	349	349	0	0	1,100	1,106
Nevada	646	665	716	717	1,133	1,076	1	1	2,495	2,458
New Mexico	419	420	675	681	599	609	0	0	1,692	1,709
Utah	587	575	881	867	704	771	5	4	2,177	2,216
Wyoming	213	200	286	316	800	847	0	0	1,298	1,363
Pacific Contiguous	9,836	10,232	12,475	13,027	6,810	7,552	71	89	29,193	30,900
California	5,916	6,022	8,992	9,380	3,965	4,352	69	87	18,941	19,840
Oregon	1,346	1,421	1,223	1,270	895	979	2	2	3,466	3,672
Washington	2,575	2,790	2,260	2,377	1,950	2,221	0	0	6,785	7,388
Pacific Noncontiguous	NM	360	472	486	404	403	0	0	1,232	1,250
Alaska	NM	162	222	228	104	108	0	0	482	498
Hawaii	201	198	250	259	300	294	0	0	750	751
U.S. Total	88,035	89,926	101,938	103,973	75,805	78,056	598	623	266,376	272,578

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	15,404	17,224	16,849	17,383	5,553	5,819	193	214	37,999	40,639
Connecticut	4,209	4,806	4,074	4,267	1,031	1,075	60	72	9,373	10,220
Maine	1,633	1,692	1,322	1,270	955	1,084	0	0	3,911	4,045
Massachusetts	6,343	7,194	8,186	8,520	2,208	2,325	123	132	16,861	18,171
New Hampshire	1,533	1,688	1,463	1,483	639	620	0	0	3,635	3,791
Rhode Island	962	1,052	1,152	1,178	250	258	9	10	2,373	2,499
Vermont	723	791	652	665	470	457	0	0	1,845	1,913
Middle Atlantic	42,120	47,371	50,254	51,936	23,126	23,661	1,280	1,352	116,780	124,320
New Jersey	8,145	9,027	11,986	12,398	2,218	2,320	103	107	22,453	23,852
New York	15,654	17,214	24,163	24,863	5,597	5,682	925	990	46,339	48,749
Pennsylvania	18,320	21,130	14,105	14,675	15,311	15,658	252	256	47,988	51,719
East North Central	59,479	64,555	58,379	59,588	60,634	61,988	200	223	178,691	186,354
Illinois	13,838	15,007	16,122	16,408	13,562	13,954	174	196	43,696	45,565
Indiana	10,677	11,867	7,549	7,790	14,162	14,718	7	8	32,395	34,383
Michigan	10,744	11,381	12,211	12,427	9,852	9,802	2	2	32,809	33,611
Ohio	17,071	18,987	14,871	15,297	15,446	15,855	17	18	47,406	50,158
Wisconsin	7,148	7,313	7,626	7,666	7,611	7,660	0	0	22,386	22,638
West North Central	33,470	35,627	32,290	32,979	26,903	28,460	16	17	92,679	97,083
Iowa	4,716	4,841	3,941	3,964	6,837	6,760	0	0	15,494	15,565
Kansas	3,761	4,102	4,695	4,796	3,411	3,468	0	0	11,867	12,366
Minnesota	7,313	7,569	7,447	7,629	6,348	6,980	8	9	21,116	22,187
Missouri	10,920	12,042	9,534	9,819	3,970	5,088	8	8	24,431	26,957
Nebraska	3,262	3,348	3,007	3,029	3,070	3,110	0	0	9,339	9,487
North Dakota	1,824	1,990	2,085	2,137	2,422	2,207	0	0	6,331	6,334
South Dakota	1,674	1,736	1,581	1,605	846	846	0	0	4,101	4,187
South Atlantic	110,137	119,616	95,444	96,292	44,381	45,469	448	467	250,410	261,844
Delaware	1,563	1,873	1,350	1,407	607	732	0	0	3,520	4,013
District of Columbia	775	916	2,715	2,620	63	83	108	118	3,661	3,736
Florida	33,930	35,279	28,104	28,457	5,251	5,366	30	31	67,315	69,132
Georgia	17,135	18,437	14,474	14,550	10,295	10,247	57	59	41,961	43,293
Maryland	9,300	10,626	9,268	9,557	1,188	1,193	187	187	19,943	21,562
North Carolina	18,648	20,372	14,807	14,913	8,483	8,513	2	3	41,940	43,802
South Carolina	9,346	10,075	6,653	6,630	8,570	9,361	0	0	24,569	26,066
Virginia	15,160	17,278	15,534	15,571	5,658	5,582	63	70	36,415	38,501
West Virginia	4,280	4,760	2,538	2,588	4,266	4,391	0	0	11,084	11,740
East South Central	37,741	42,365	27,288	27,827	32,098	33,577	0	0	97,127	103,768
Alabama	9,701	10,715	6,842	6,980	10,672	11,075	0	0	27,214	28,770
Kentucky	8,818	9,898	5,930	6,020	9,115	10,015	0	0	23,863	25,933
Mississippi	5,492	6,185	4,069	4,164	5,364	5,257	0	0	14,925	15,606
Tennessee	13,731	15,567	10,447	10,662	6,947	7,230	0	0	31,125	33,459
West South Central	60,234	66,768	58,916	60,184	55,858	52,412	60	60	175,068	179,423
Arkansas	5,577	6,457	3,572	3,683	5,046	4,963	0	0	14,196	15,103
Louisiana	8,672	9,818	7,342	7,555	10,952	10,197	4	4	26,970	27,574
Oklahoma	6,553	7,195	5,910	6,002	5,437	5,456	0	0	17,899	18,652
Texas	39,431	43,297	42,092	42,944	34,424	31,796	56	56	116,002	118,093
Mountain	27,861	27,138	29,010	28,877	26,023	26,246	44	45	82,938	82,307
Arizona	8,303	8,015	8,637	8,616	4,840	4,470	2	2	21,782	21,103
Colorado	5,894	5,773	6,407	6,341	4,846	4,905	22	21	17,169	17,040
Idaho	2,913	2,800	2,017	1,998	2,027	2,271	0	0	6,957	7,069
Montana	1,805	1,811	1,632	1,642	1,377	1,375	0	0	4,813	4,827
Nevada	3,066	2,969	2,792	2,807	4,342	4,330	3	3	10,202	10,108
New Mexico	2,084	2,101	2,685	2,701	2,357	2,331	0	0	7,126	7,133
Utah	2,738	2,639	3,590	3,423	2,937	3,155	18	19	9,284	9,235
Wyoming	1,058	1,031	1,250	1,350	3,296	3,410	0	0	5,605	5,791
Pacific Contiguous	46,811	45,875	50,548	51,198	26,365	28,001	278	298	124,002	125,372
California	26,660	26,158	35,535	36,120	14,869	15,368	268	288	77,332	77,935
Oregon	6,847	6,558	5,242	5,154	3,539	3,832	8	8	15,636	15,552
Washington	13,304	13,159	9,771	9,923	7,957	8,801	2	2	31,034	31,885
Pacific Noncontiguous	1,540	1,562	1,934	1,950	1,623	1,572	0	0	5,097	5,084
Alaska	728	759	947	965	453	442	0	0	2,128	2,166
Hawaii	811	802	987	985	1,171	1,130	0	0	2,969	2,917
U.S. Total	434,795	468,101	420,912	428,214	302,565	307,204	2,519	2,676	1,160,791	1,206,195

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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, April 2016 and 2015 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	654	735	604	641	159	174	4	6	1,421	1,556
Connecticut	190	221	156	167	34	35	2	3	382	427
Maine	52	58	34	39	17	23	0	0	103	119
Massachusetts	282	314	298	312	70	77	2	3	652	706
New Hampshire	64	71	51	54	19	20	0	0	134	145
Rhode Island	41	44	42	46	8	8	0	0	92	99
Vermont	26	27	22	23	10	11	0	0	59	61
Middle Atlantic	1,366	1,458	1,419	1,526	389	423	32	34	3,206	3,441
New Jersey	263	275	336	366	52	60	2	2	652	703
New York	587	653	778	844	84	92	25	26	1,474	1,616
Pennsylvania	517	531	305	316	253	271	5	5	1,080	1,123
East North Central	1,589	1,544	1,357	1,357	1,007	1,013	3	4	3,956	3,918
Illinois	360	371	332	331	208	194	3	3	903	899
Indiana	237	228	172	173	235	247	0	0	644	648
Michigan	345	317	309	305	168	169	0	0	822	791
Ohio	427	412	350	352	257	260	0	0	1,034	1,024
Wisconsin	221	216	194	196	138	144	0	0	553	556
West North Central	735	730	689	685	428	469	0	0	1,852	1,883
Iowa	108	105	78	77	87	94	0	0	272	276
Kansas	97	93	118	116	63	65	0	0	278	273
Minnesota	187	185	171	167	108	120	0	0	467	473
Missouri	203	209	184	186	57	71	0	0	444	466
Nebraska	66	65	61	62	57	58	0	0	183	185
North Dakota	37	36	43	43	41	46	0	0	121	125
South Dakota	37	36	34	33	15	15	0	0	87	84
South Atlantic	2,581	2,691	2,146	2,247	706	742	9	9	5,442	5,689
Delaware	42	37	31	35	12	13	0	0	85	85
District of Columbia	22	23	67	76	1	2	3	3	93	104
Florida	911	1,049	663	750	103	115	1	1	1,677	1,916
Georgia	374	378	336	336	134	139	1	1	845	854
Maryland	246	239	231	243	24	28	4	3	505	513
North Carolina	380	389	306	311	134	138	0	0	820	838
South Carolina	215	213	160	157	127	138	0	0	501	508
Virginia	312	294	298	288	101	105	1	1	712	689
West Virginia	80	68	55	49	70	64	0	0	205	182
East South Central	770	813	664	692	440	477	0	0	1,874	1,982
Alabama	230	230	188	186	155	159	0	0	573	575
Kentucky	167	170	134	132	120	129	0	0	421	431
Mississippi	116	134	94	113	74	84	0	0	284	331
Tennessee	257	279	248	261	91	104	0	0	596	645
West South Central	1,347	1,442	1,108	1,177	692	734	1	1	3,149	3,354
Arkansas	104	108	70	72	67	72	0	0	242	253
Louisiana	161	171	157	160	137	134	0	0	456	465
Oklahoma	138	140	102	110	61	70	0	0	301	319
Texas	943	1,024	780	835	427	458	1	1	2,150	2,318
Mountain	699	711	662	696	389	426	1	1	1,751	1,834
Arizona	242	241	223	227	68	68	0	0	534	536
Colorado	151	150	143	153	83	87	1	1	378	391
Idaho	55	56	36	37	35	47	0	0	126	139
Montana	41	40	39	40	16	18	0	0	96	98
Nevada	77	90	58	68	56	65	0	0	191	222
New Mexico	47	52	61	69	33	38	0	0	141	158
Utah	63	61	75	73	42	46	0	0	180	180
Wyoming	23	22	27	29	56	58	0	0	106	109
Pacific Contiguous	1,115	1,149	1,533	1,606	560	611	6	7	3,215	3,373
California	734	752	1,237	1,302	423	458	6	7	2,400	2,519
Oregon	141	151	109	113	52	57	0	0	302	322
Washington	240	246	188	191	86	96	0	0	514	532
Pacific Noncontiguous	NM	92	99	109	75	83	0	0	260	285
Alaska	NM	32	41	40	17	16	0	0	NM	87
Hawaii	54	60	58	69	58	68	0	0	170	197
U.S. Total	10,942	11,366	10,281	10,735	4,845	5,153	56	61	26,126	27,315

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	2,962	3,531	2,570	2,887	672	750	17	25	6,222	7,193
Connecticut	866	1,047	644	724	136	147	7	12	1,653	1,930
Maine	250	268	159	179	85	110	0	0	494	558
Massachusetts	1,260	1,550	1,279	1,431	290	321	9	11	2,837	3,313
New Hampshire	281	329	214	238	80	83	0	0	575	650
Rhode Island	182	206	180	219	34	42	2	2	398	469
Vermont	123	132	94	95	47	46	0	0	264	274
Middle Atlantic	6,475	7,460	6,022	6,747	1,623	1,832	139	162	14,259	16,201
New Jersey	1,263	1,407	1,432	1,575	220	262	9	11	2,924	3,255
New York	2,641	3,275	3,251	3,739	329	395	109	130	6,330	7,538
Pennsylvania	2,571	2,778	1,339	1,433	1,074	1,175	20	21	5,005	5,407
East North Central	7,531	8,004	5,643	5,813	4,099	4,225	14	17	17,287	18,058
Illinois	1,674	1,812	1,376	1,453	854	905	12	14	3,917	4,183
Indiana	1,165	1,290	716	753	949	994	1	1	2,831	3,037
Michigan	1,588	1,569	1,270	1,280	671	680	0	0	3,529	3,529
Ohio	2,096	2,311	1,457	1,500	1,052	1,065	1	2	4,607	4,879
Wisconsin	1,008	1,022	823	826	572	581	0	0	2,404	2,429
West North Central	3,613	3,728	2,880	2,854	1,780	1,851	1	1	8,274	8,435
Iowa	522	523	333	332	360	370	0	0	1,216	1,225
Kansas	476	488	479	472	253	256	0	0	1,208	1,216
Minnesota	893	884	712	691	446	472	1	1	2,052	2,048
Missouri	1,047	1,153	769	780	238	280	1	1	2,055	2,214
Nebraska	325	325	258	258	231	230	0	0	814	813
North Dakota	172	176	185	180	190	182	0	0	547	538
South Dakota	178	179	143	140	62	61	0	0	383	379
South Atlantic	12,650	13,722	8,911	9,250	2,736	2,950	35	39	24,332	25,960
Delaware	208	241	140	143	50	63	0	0	398	447
District of Columbia	102	115	323	319	6	7	10	11	440	452
Florida	3,840	4,174	2,627	2,816	408	446	3	3	6,877	7,439
Georgia	1,844	1,974	1,373	1,406	533	576	3	3	3,752	3,958
Maryland	1,317	1,405	1,016	1,091	95	112	15	16	2,442	2,625
North Carolina	2,056	2,242	1,269	1,281	498	532	0	0	3,824	4,055
South Carolina	1,141	1,226	660	665	487	551	0	0	2,287	2,443
Virginia	1,679	1,899	1,266	1,313	383	401	5	6	3,333	3,618
West Virginia	464	446	238	215	277	262	0	0	979	923
East South Central	3,951	4,445	2,720	2,853	1,765	1,926	0	0	8,436	9,225
Alabama	1,132	1,229	749	761	594	634	0	0	2,476	2,624
Kentucky	876	964	552	558	482	526	0	0	1,909	2,048
Mississippi	584	696	397	457	304	342	0	0	1,285	1,496
Tennessee	1,359	1,556	1,022	1,077	385	425	0	0	2,765	3,057
West South Central	6,293	7,222	4,487	4,793	2,794	2,950	3	3	13,578	14,969
Arkansas	521	590	284	290	276	282	0	0	1,081	1,162
Louisiana	762	872	629	660	539	552	0	0	1,930	2,085
Oklahoma	628	682	404	429	241	277	0	0	1,273	1,388
Texas	4,382	5,078	3,170	3,415	1,738	1,839	3	3	9,293	10,334
Mountain	3,107	3,100	2,630	2,723	1,521	1,628	4	4	7,262	7,455
Arizona	960	928	848	839	263	267	0	0	2,072	2,034
Colorado	667	674	571	610	324	339	2	2	1,563	1,626
Idaho	283	269	153	155	120	136	0	0	556	560
Montana	192	193	162	170	65	70	0	0	419	433
Nevada	365	393	231	269	216	258	0	0	812	921
New Mexico	237	258	250	276	131	143	0	0	618	676
Utah	291	276	298	282	175	183	2	2	766	743
Wyoming	113	108	116	121	227	232	0	0	456	462
Pacific Contiguous	6,340	6,027	6,181	6,272	2,121	2,246	24	25	14,666	14,570
California	4,408	4,219	4,898	5,021	1,560	1,639	23	24	10,889	10,904
Oregon	709	685	462	455	207	224	1	1	1,379	1,365
Washington	1,223	1,123	821	796	355	382	0	0	2,399	2,301
Pacific Noncontiguous	364	399	405	447	300	339	0	0	1,069	1,184
Alaska	145	148	169	168	67	65	0	0	381	380
Hawaii	219	251	236	279	233	274	0	0	688	804
U.S. Total	53,287	57,639	42,449	44,638	19,411	20,697	238	277	115,385	123,251

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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, April 2016 and 2015 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	19.68	20.77	15.12	15.60	11.78	12.03	8.65	11.87	16.31	17.01
Connecticut	21.15	22.30	15.72	16.39	12.88	13.00	12.22	15.85	17.60	18.54
Maine	14.34	15.52	11.39	12.72	7.71	8.77	--	--	11.68	12.73
Massachusetts	20.64	21.67	15.56	15.52	12.96	13.17	5.94	8.80	16.93	17.33
New Hampshire	18.67	19.70	14.49	15.50	12.35	12.76	--	--	15.77	16.75
Rhode Island	19.43	21.06	15.13	17.05	13.44	13.12	18.28	17.77	16.58	18.16
Vermont	17.52	17.24	14.49	14.62	9.63	9.69	--	--	14.33	14.30
Middle Atlantic	15.72	15.65	12.19	12.73	6.93	7.27	10.69	11.40	12.22	12.55
New Jersey	15.52	15.88	12.02	12.90	9.66	10.78	8.14	9.98	12.93	13.66
New York	17.39	17.75	13.79	14.46	5.96	6.28	11.83	12.45	13.85	14.43
Pennsylvania	14.27	13.57	9.52	9.53	6.91	7.14	7.75	8.25	10.24	10.13
East North Central	13.25	13.19	9.78	9.87	6.80	6.66	7.34	7.71	9.72	9.62
Illinois	12.79	13.40	8.67	8.90	6.27	5.87	7.16	7.15	9.02	9.14
Indiana	11.84	11.88	9.75	9.78	7.13	6.80	9.67	10.53	9.12	8.85
Michigan	14.95	14.06	10.42	10.39	6.73	6.87	11.45	11.10	10.58	10.34
Ohio	12.76	12.60	9.93	10.00	6.76	6.62	7.72	12.34	9.69	9.56
Wisconsin	14.45	14.50	10.86	10.90	7.37	7.58	15.29	--	10.65	10.72
West North Central	11.52	11.49	9.11	8.94	6.50	6.55	8.37	8.13	9.02	8.90
Iowa	11.71	11.93	8.67	8.62	5.03	5.52	--	--	7.68	7.95
Kansas	13.45	13.04	10.28	10.18	7.40	7.38	--	--	10.21	10.03
Minnesota	12.62	12.22	9.78	9.34	7.07	6.92	9.94	9.45	9.80	9.37
Missouri	10.36	10.76	8.22	8.20	6.20	5.49	6.73	6.81	8.68	8.47
Nebraska	10.65	10.63	8.66	8.66	7.40	7.38	--	--	8.79	8.76
North Dakota	10.52	10.14	9.31	9.15	7.05	8.31	--	--	8.67	9.07
South Dakota	11.39	10.92	9.33	8.79	7.40	7.12	--	--	9.64	9.16
South Atlantic	11.74	11.91	9.20	9.43	6.18	6.31	7.95	8.07	9.57	9.76
Delaware	13.90	13.74	10.15	9.22	8.03	7.60	--	--	11.23	10.37
District of Columbia	13.48	13.20	11.88	12.43	9.09	8.89	9.73	9.34	12.08	12.39
Florida	11.07	11.70	9.00	9.67	7.54	8.15	8.16	8.74	9.89	10.56
Georgia	11.16	11.25	9.49	9.40	5.19	5.37	4.54	4.82	8.90	8.95
Maryland	14.37	13.76	11.01	11.29	7.91	8.86	7.84	7.87	12.14	12.08
North Carolina	11.72	12.11	8.49	8.50	5.99	6.11	7.88	7.76	9.03	9.18
South Carolina	12.77	13.10	9.78	9.77	5.77	5.72	--	--	9.10	9.00
Virginia	12.00	11.41	8.16	8.22	6.73	6.84	7.83	8.42	9.17	9.02
West Virginia	11.29	10.13	9.49	8.79	6.53	6.12	--	--	8.69	7.96
East South Central	10.95	11.26	9.92	10.38	5.56	5.61	--	--	8.66	8.86
Alabama	12.42	12.30	11.04	10.94	5.91	5.73	--	--	9.28	9.06
Kentucky	10.36	10.54	9.45	9.60	5.35	5.13	--	--	7.98	7.83
Mississippi	11.01	12.12	9.38	10.94	5.43	6.32	--	--	8.30	9.54
Tennessee	10.22	10.60	9.64	10.21	5.39	5.60	--	--	8.80	9.14
West South Central	10.84	11.46	7.51	7.72	4.83	5.45	5.68	5.55	7.58	8.12
Arkansas	10.04	10.10	7.99	8.11	5.27	5.71	8.68	10.52	7.57	7.83
Louisiana	9.17	9.22	8.60	8.61	4.83	5.27	9.68	8.34	7.09	7.44
Oklahoma	10.93	11.17	6.85	7.06	4.43	5.04	--	--	7.29	7.62
Texas	11.28	12.17	7.37	7.63	4.82	5.53	5.41	5.34	7.74	8.38
Mountain	11.60	11.83	9.28	9.62	5.93	6.33	9.50	9.80	8.87	9.17
Arizona	12.36	12.26	10.08	10.08	5.64	6.15	8.07	8.26	9.92	10.07
Colorado	11.78	12.00	9.48	9.92	6.92	7.07	9.53	9.90	9.44	9.69
Idaho	9.87	9.79	7.69	7.89	6.10	6.28	--	--	7.87	7.82
Montana	11.03	10.92	10.27	10.22	4.47	5.04	--	--	8.69	8.82
Nevada	11.89	13.49	8.04	9.44	4.98	6.04	7.24	8.93	7.65	9.05
New Mexico	11.34	12.38	8.99	10.09	5.55	6.19	--	--	8.36	9.26
Utah	10.71	10.58	8.49	8.46	5.99	5.94	9.96	10.01	8.28	8.14
Wyoming	10.99	10.88	9.42	9.26	6.96	6.85	--	--	8.16	8.00
Pacific Contiguous	11.34	11.23	12.29	12.33	8.22	8.09	8.97	7.71	11.01	10.91
California	12.40	12.48	13.76	13.88	10.66	10.52	8.96	7.67	12.67	12.69
Oregon	10.50	10.64	8.87	8.89	5.77	5.85	9.31	9.13	8.71	8.76
Washington	9.33	8.82	8.30	8.02	4.41	4.31	9.04	8.61	7.57	7.21
Pacific Noncontiguous	24.22	25.57	20.98	22.42	18.49	20.72	--	--	21.10	22.78
Alaska	20.72	19.62	18.35	17.44	16.10	14.74	--	--	18.64	17.56
Hawaii	26.93	30.45	23.31	26.81	19.31	22.93	--	--	22.68	26.25
U.S. Total	12.43	12.64	10.09	10.32	6.39	6.60	9.42	9.84	9.81	10.02

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-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 April 2016 and 2015 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD	April 2016 YTD	April 2015 YTD
New England	19.23	20.50	15.26	16.61	12.10	12.89	8.93	11.67	16.37	17.70
Connecticut	20.59	21.78	15.82	16.97	13.18	13.70	11.45	16.59	17.64	18.88
Maine	15.33	15.84	12.06	14.13	8.85	10.18	--	--	12.64	13.79
Massachusetts	19.86	21.54	15.62	16.80	13.13	13.82	6.98	8.52	16.83	18.23
New Hampshire	18.36	19.46	14.61	16.05	12.54	13.45	--	--	15.83	17.14
Rhode Island	18.88	19.61	15.66	18.58	13.71	16.09	18.25	17.69	16.77	18.75
Vermont	17.00	16.70	14.34	14.32	10.06	10.14	--	--	14.29	14.31
Middle Atlantic	15.37	15.75	11.98	12.99	7.02	7.74	10.84	11.96	12.21	13.03
New Jersey	15.50	15.58	11.95	12.71	9.92	11.27	8.89	10.66	13.02	13.65
New York	16.87	19.02	13.45	15.04	5.88	6.96	11.83	13.09	13.66	15.46
Pennsylvania	14.04	13.15	9.49	9.77	7.02	7.51	8.00	8.13	10.43	10.46
East North Central	12.66	12.40	9.67	9.75	6.76	6.82	6.99	7.58	9.67	9.69
Illinois	12.10	12.07	8.54	8.85	6.30	6.48	6.78	7.04	8.96	9.18
Indiana	10.91	10.87	9.49	9.67	6.70	6.75	9.72	10.05	8.74	8.83
Michigan	14.78	13.79	10.40	10.30	6.81	6.94	11.40	11.43	10.75	10.50
Ohio	12.28	12.17	9.80	9.81	6.81	6.72	7.50	12.08	9.72	9.73
Wisconsin	14.10	13.97	10.80	10.78	7.52	7.58	14.53	--	10.74	10.73
West North Central	10.79	10.46	8.92	8.65	6.62	6.51	8.46	8.04	8.93	8.69
Iowa	11.07	10.81	8.46	8.37	5.27	5.48	--	--	7.85	7.87
Kansas	12.65	11.91	10.20	9.84	7.43	7.38	--	--	10.18	9.84
Minnesota	12.21	11.68	9.56	9.06	7.03	6.76	10.14	9.34	9.72	9.23
Missouri	9.59	9.57	8.07	7.95	5.99	5.51	6.61	6.57	8.41	8.21
Nebraska	9.97	9.72	8.58	8.52	7.51	7.39	--	--	8.71	8.57
North Dakota	9.44	8.87	8.88	8.40	7.83	8.27	--	--	8.64	8.50
South Dakota	10.62	10.29	9.04	8.74	7.33	7.16	--	--	9.33	9.06
South Atlantic	11.49	11.47	9.34	9.61	6.17	6.49	7.81	8.41	9.72	9.91
Delaware	13.31	12.88	10.34	10.16	8.24	8.64	--	--	11.30	11.15
District of Columbia	13.09	12.50	11.88	12.18	9.17	8.62	9.40	9.27	12.02	12.09
Florida	11.32	11.83	9.35	9.90	7.76	8.32	8.53	9.11	10.22	10.76
Georgia	10.76	10.70	9.49	9.66	5.17	5.62	4.42	5.05	8.94	9.14
Maryland	14.16	13.22	10.96	11.42	7.99	9.41	7.78	8.81	12.25	12.17
North Carolina	11.03	11.01	8.57	8.59	5.88	6.24	7.92	7.80	9.12	9.26
South Carolina	12.21	12.17	9.91	10.04	5.68	5.89	--	--	9.31	9.37
Virginia	11.07	10.99	8.15	8.43	6.77	7.18	7.87	8.47	9.15	9.40
West Virginia	10.85	9.37	9.37	8.30	6.50	5.97	--	--	8.83	7.86
East South Central	10.47	10.49	9.97	10.25	5.50	5.74	--	--	8.69	8.89
Alabama	11.67	11.47	10.95	10.91	5.57	5.72	--	--	9.10	9.12
Kentucky	9.93	9.74	9.30	9.26	5.29	5.25	--	--	8.00	7.90
Mississippi	10.63	11.26	9.76	10.98	5.67	6.50	--	--	8.61	9.58
Tennessee	9.90	9.99	9.78	10.10	5.54	5.87	--	--	8.88	9.14
West South Central	10.45	10.82	7.62	7.96	5.00	5.63	5.64	5.54	7.76	8.34
Arkansas	9.35	9.13	7.94	7.87	5.47	5.69	8.88	11.06	7.62	7.69
Louisiana	8.78	8.89	8.57	8.73	4.92	5.42	8.80	8.17	7.16	7.56
Oklahoma	9.58	9.48	6.84	7.15	4.44	5.07	--	--	7.11	7.44
Texas	11.11	11.73	7.53	7.95	5.05	5.78	5.41	5.34	8.01	8.75
Mountain	11.15	11.42	9.07	9.43	5.84	6.20	9.38	9.93	8.76	9.06
Arizona	11.57	11.57	9.82	9.74	5.44	5.97	8.18	7.88	9.51	9.64
Colorado	11.31	11.68	8.91	9.62	6.69	6.92	9.15	10.15	9.11	9.54
Idaho	9.70	9.61	7.59	7.76	5.93	5.98	--	--	7.99	7.92
Montana	10.62	10.65	9.96	10.37	4.74	5.07	--	--	8.71	8.96
Nevada	11.89	13.25	8.29	9.59	4.98	5.96	7.67	8.77	7.96	9.11
New Mexico	11.38	12.29	9.32	10.20	5.54	6.12	--	--	8.67	9.48
Utah	10.62	10.46	8.31	8.25	5.94	5.80	10.03	10.06	8.25	8.05
Wyoming	10.68	10.52	9.26	8.96	6.88	6.82	--	--	8.13	7.98
Pacific Contiguous	13.54	13.14	12.23	12.25	8.05	8.02	8.74	8.47	11.83	11.62
California	16.53	16.13	13.78	13.90	10.49	10.67	8.71	8.45	14.08	13.99
Oregon	10.36	10.45	8.82	8.83	5.84	5.84	9.22	9.16	8.82	8.78
Washington	9.19	8.54	8.40	8.02	4.46	4.35	9.67	8.79	7.73	7.22
Pacific Noncontiguous	23.67	25.55	20.93	22.91	18.48	21.54	--	--	20.97	23.30
Alaska	19.96	19.47	17.80	17.39	14.78	14.60	--	--	17.90	17.55
Hawaii	26.99	31.30	23.93	28.31	19.91	24.26	--	--	23.18	27.57
U.S. Total	12.26	12.31	10.09	10.42	6.42	6.74	9.45	10.36	9.94	10.22

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 - April 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
Rolling 12 Months Ending in April					
2015	129,101,273	17,899,774	831,042	77	147,832,165
2016	130,223,373	18,023,328	814,268	77	149,061,047

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: April 2016 and 2015

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	6,296,705	6,270,390	870,348	864,491	26,085	26,212	6	6	7,193,144	7,161,099
Connecticut	1,488,539	1,468,606	152,344	150,560	4,436	4,405	3	3	1,645,322	1,623,574
Maine	712,993	706,628	93,309	92,005	3,099	3,039	0	0	809,401	801,672
Massachusetts	2,733,208	2,740,648	405,301	405,022	13,294	13,412	2	2	3,151,805	3,159,084
New Hampshire	608,684	602,255	105,715	105,132	3,220	3,278	0	0	717,619	710,665
Rhode Island	440,775	441,016	59,079	58,632	1,821	1,863	1	1	501,676	501,512
Vermont	312,506	311,237	54,600	53,140	215	215	0	0	367,321	364,592
Middle Atlantic	15,941,421	15,868,354	2,277,473	2,264,241	42,915	43,706	23	18	18,261,832	18,176,319
New Jersey	3,502,589	3,481,778	513,849	511,538	11,899	12,178	6	6	4,028,343	4,005,500
New York	7,106,517	7,073,994	1,068,827	1,060,625	7,720	7,743	11	6	8,183,075	8,142,368
Pennsylvania	5,332,315	5,312,582	694,797	692,078	23,296	23,785	6	6	6,050,414	6,028,451
East North Central	19,957,862	19,825,147	2,465,428	2,452,070	52,338	52,266	8	7	22,475,636	22,329,490
Illinois	5,234,143	5,171,722	604,597	601,466	5,476	5,508	3	3	5,844,219	5,778,699
Indiana	2,811,835	2,787,937	347,091	345,518	17,455	17,484	1	1	3,176,382	3,150,940
Michigan	4,314,726	4,297,529	541,227	535,920	NM	5,616	1	1	4,861,839	4,839,066
Ohio	4,922,645	4,907,700	620,087	618,947	18,749	18,960	2	2	5,561,483	5,545,609
Wisconsin	2,674,513	2,660,259	352,426	350,219	NM	4,698	1	0	3,031,713	3,015,176
West North Central	9,340,103	9,299,775	1,430,167	1,415,753	114,273	111,706	2	2	10,884,545	10,827,236
Iowa	1,363,530	1,361,239	239,300	229,147	NM	6,700	0	0	1,609,691	1,597,086
Kansas	1,254,753	1,244,291	232,227	228,872	25,447	25,598	0	0	1,512,427	1,498,761
Minnesota	2,355,775	2,371,767	283,929	288,139	NM	8,136	1	1	2,647,940	2,668,043
Missouri	2,760,589	2,739,125	374,272	372,489	8,364	8,469	1	1	3,143,226	3,120,084
Nebraska	839,356	831,092	157,976	156,735	54,515	52,608	0	0	1,051,847	1,040,435
North Dakota	373,506	364,530	70,664	69,541	7,887	7,339	0	0	452,057	441,410
South Dakota	392,594	387,731	71,799	70,830	NM	2,856	0	0	467,357	461,417
South Atlantic	27,093,430	26,809,497	3,716,833	3,669,638	77,943	77,830	13	11	30,888,219	30,556,976
Delaware	416,816	411,805	52,814	52,759	1,125	1,126	0	0	470,755	465,690
District of Columbia	257,605	247,507	25,900	25,415	1	1	3	1	283,509	272,924
Florida	9,025,986	8,960,636	1,198,444	1,188,720	20,314	19,556	2	2	10,244,746	10,168,914
Georgia	4,250,628	4,199,228	573,528	564,830	17,787	17,940	1	1	4,841,944	4,781,999
Maryland	2,288,837	2,252,315	250,440	248,599	8,810	8,799	5	5	2,548,092	2,509,718
North Carolina	4,420,770	4,367,547	685,421	669,105	9,975	10,082	1	1	5,116,167	5,046,735
South Carolina	2,216,094	2,183,894	357,512	352,416	4,410	4,527	0	0	2,578,016	2,540,837
Virginia	3,355,718	3,324,263	430,393	426,270	3,772	3,785	1	1	3,789,884	3,754,319
West Virginia	860,976	862,302	142,381	141,524	11,749	12,014	0	0	1,015,106	1,015,840
East South Central	8,290,241	8,213,684	1,372,451	1,360,980	24,800	24,845	0	0	9,687,492	9,599,509
Alabama	2,214,243	2,194,606	365,887	362,028	8,090	8,094	0	0	2,588,220	2,564,728
Kentucky	1,967,511	1,952,665	296,757	295,122	7,787	7,813	0	0	2,272,055	2,255,600
Mississippi	1,292,452	1,281,847	235,243	231,994	7,543	7,508	0	0	1,535,238	1,521,349
Tennessee	2,816,035	2,784,566	474,564	471,836	1,380	1,430	0	0	3,291,979	3,257,832
West South Central	15,484,254	15,344,620	2,245,764	2,183,860	172,643	177,693	6	6	17,902,667	17,706,179
Arkansas	1,367,645	1,358,022	188,782	185,951	28,964	29,189	2	2	1,585,393	1,573,164
Louisiana	2,060,802	2,042,115	289,445	286,451	18,417	18,472	1	1	2,368,665	2,347,039
Oklahoma	1,746,304	1,726,641	280,375	276,451	17,988	18,199	0	0	2,044,667	2,021,291
Texas	10,309,503	10,217,842	1,487,162	1,435,007	107,274	111,833	3	3	11,903,942	11,764,685
Mountain	9,487,284	9,361,071	1,361,351	1,346,090	86,896	86,979	4	4	10,935,535	10,794,144
Arizona	2,704,769	2,672,457	315,177	312,289	6,706	6,723	1	1	3,026,653	2,991,470
Colorado	2,249,502	2,218,736	355,435	352,493	14,605	14,674	1	1	2,619,543	2,585,904
Idaho	710,193	698,608	106,763	104,935	28,089	27,635	0	0	845,045	831,178
Montana	497,416	491,602	106,928	105,338	NM	5,909	0	0	610,587	602,849
Nevada	1,140,040	1,121,673	161,170	159,891	3,514	3,442	1	1	1,304,725	1,285,007
New Mexico	887,203	879,537	137,687	136,629	8,570	8,585	0	0	1,033,460	1,024,751
Utah	1,027,867	1,010,186	119,983	116,184	9,495	10,474	1	1	1,157,346	1,136,845
Wyoming	270,294	268,272	58,208	58,331	9,674	9,537	0	0	338,176	336,140
Pacific Contiguous	17,851,984	17,945,358	2,260,896	2,267,196	196,915	198,867	22	21	20,309,817	20,411,442
California	13,184,576	13,327,517	1,651,986	1,667,414	143,214	148,118	15	13	14,979,791	15,143,062
Oregon	1,711,269	1,690,696	234,436	231,418	24,727	22,429	2	2	1,970,434	1,944,545
Washington	2,956,139	2,927,145	374,474	368,364	NM	28,320	5	6	3,359,592	3,323,835
Pacific Noncontiguous	713,095	710,442	114,383	111,500	NM	2,025	0	0	829,639	823,967
Alaska	NM	282,488	NM	50,533	NM	NM	0	0	NM	334,322
Hawaii	429,682	427,954	61,519	60,967	793	724	0	0	491,994	489,645
U.S. Total	130,456,379	129,648,338	18,115,094	17,935,819	796,969	802,129	84	75	149,368,526	148,386,361

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

Table 6.1. Electric Generating Summer Capacity Changes (MW), March 2016 to April 2016

		As of End of March 2016	Activity During April 2016 as Reported to EIA		As of End of April 2016	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
									Planned Capacity Additions		Planned Capacity Reductions		Planned Net Change		Planned Total Net Summer	
Technology	Capacity Source	Total In-Service Capacity	Actual Capacity Additions	Actual Capacity Reductions	Total In-Service Capacity	Current Month	Year to Date	Past 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	At End of Next Month	At End of Next 12 Months
..... Onshore Wind (Summer Capacity)	Utility Scale Facilities	73,750.7	187.6	615.1	73,323.2	-427.5	745.3	7,263.7	281.7	8,064.6	0.0	1.3	281.7	8,063.3	73,604.9	81,386.5
..... Offshore Wind (Summer Capacity)	Utility Scale Facilities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.3	0.0	0.0	0.0	29.3	0.0	29.3
..... Wind (Summer Capacity)	Utility Scale Facilities	73,750.7	187.6	615.1	73,323.2	-427.5	745.3	7,263.7	281.7	8,093.9	0.0	1.3	281.7	8,092.6	73,604.9	81,415.8
..... Solar Photovoltaic	Utility Scale Facilities	12,307.0	577.4	3.8	12,880.6	573.6	1,250.9	3,761.4	168.5	7,434.0	0.0	0.0	168.5	7,434.0	13,049.1	20,314.6
..... Solar Thermal without Energy Storage	Utility Scale Facilities	1,327.5	25.0	0.0	1,352.5	25.0	-18.8	-18.8	0.0	0.0	0.0	0.0	0.0	0.0	1,352.5	1,352.5
..... Solar Thermal with Energy Storage	Utility Scale Facilities	405.4	0.0	0.0	405.4	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	405.4	405.4
..... Solar Subtotal	Utility Scale Facilities	14,039.9	602.4	3.8	14,638.5	598.6	1,232.1	3,852.6	168.5	7,434.0	0.0	0.0	168.5	7,434.0	14,807.0	22,072.5
..... Conventional Hydroelectric	Utility Scale Facilities	79,813.5	44.5	16.1	79,841.9	28.4	100.2	158.7	29.3	238.9	0.0	11.7	29.3	227.2	79,871.2	80,069.1
..... Wood/Wood Waste Biomass	Utility Scale Facilities	8,823.2	159.9	164.4	8,818.7	-4.5	264.3	298.5	0.0	62.5	0.0	10.5	0.0	52.0	8,818.7	8,870.7
..... Landfill Gas	Utility Scale Facilities	2,073.6	38.1	0.0	2,111.7	38.1	-5.9	-4.9	0.0	25.1	1.4	10.6	-1.4	14.5	2,110.3	2,126.2
..... Municipal Solid Waste	Utility Scale Facilities	2,249.2	1.0	3.1	2,247.1	-2.1	-6.8	22.2	0.0	0.0	0.0	2.0	0.0	-2.0	2,247.1	2,245.1
..... Other Waste Biomass	Utility Scale Facilities	784.6	23.1	0.0	807.7	23.1	-30.8	-15.7	0.0	25.8	0.0	1.2	0.0	24.6	807.7	832.3
..... Biomass Sources Subtotal	Utility Scale Facilities	13,930.6	222.1	167.5	13,985.2	54.6	220.8	300.1	0.0	113.4	1.4	24.3	-1.4	89.1	13,983.8	14,074.3
..... Geothermal	Utility Scale Facilities	2,525.3	0.0	0.0	2,525.3	0.0	-4.9	-19.1	0.0	0.0	0.0	30.0	0.0	-30.0	2,525.3	2,495.3
... Renewable Sources Subtotal	**Utility Scale Facilities**	**184,060.0**	**1,056.6**	**802.5**	**184,314.1**	**254.1**	**2,293.5**	**11,556.0**	**479.5**	**15,880.2**	**1.4**	**67.3**	**478.1**	**15,812.9**	**184,792.2**	**200,127.0**
..... Natural Gas Fired Combined Cycle	Utility Scale Facilities	234,061.0	2,964.3	286.8	236,738.5	2,677.5	2,384.2	6,953.9	1,552.6	7,524.3	0.0	95.0	1,552.6	7,429.3	238,291.1	244,167.8
..... Natural Gas Fired Combustion Turbine	Utility Scale Facilities	124,088.9	203.6	625.9	123,666.6	-422.3	-1,153.6	-1,585.1	884.9	1,976.0	0.0	132.3	884.9	1,843.7	124,551.5	125,510.3
..... Natural Gas Steam Turbine	Utility Scale Facilities	78,388.0	981.9	1,823.1	77,546.8	-841.2	1,795.2	954.4	0.0	0.0	74.0	429.7	-74.0	-429.7	77,472.8	77,117.1
..... Natural Gas Internal Combustion Engine	Utility Scale Facilities	3,638.0	45.8	0.0	3,683.8	45.8	102.4	137.5	70.8	621.8	0.9	4.2	69.9	617.6	3,753.7	4,301.4
..... 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	103.3	3.8	0.0	107.1	3.8	1.1	6.6	0.0	1.4	0.0	0.0	0.0	1.4	107.1	108.5
..... Natural Gas Subtotal	Utility Scale Facilities	440,389.2	4,199.4	2,735.8	441,852.8	1,463.6	3,129.3	6,467.3	2,508.3	10,123.5	74.9	661.2	2,433.4	9,462.3	444,286.2	451,315.1
..... Conventional Steam Coal	Utility Scale Facilities	279,578.9	4,371.5	8,913.9	275,036.5	-4,542.4	-8,674.2	-17,938.9	0.0	12.2	686.0	2,455.5	-686.0	-2,443.3	274,350.5	272,593.2
..... Coal Integrated Gasification Combined Cycle	Utility Scale Facilities	791.0	24.0	0.0	815.0	24.0	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	280,369.9	4,395.5	8,913.9	275,851.5	-4,518.4	-8,650.2	-17,914.9	0.0	12.2	686.0	2,455.5	-686.0	-2,443.3	275,165.5	273,408.2
..... Petroleum Coke	Utility Scale Facilities	1,741.4	0.8	1.8	1,740.4	-1.0	-449.8	-449.8	0.0	0.0	0.0	85.0	0.0	-85.0	1,740.4	1,655.4
..... Petroleum Liquids	Utility Scale Facilities	34,894.4	654.2	683.4	34,865.2	-29.2	-1,932.1	-2,741.8	6.0	48.5	8.7	26.7	-2.7	21.8	34,862.5	34,887.0
..... Other Gases	Utility Scale Facilities	2,119.7	382.4	0.0	2,502.1	382.4	587.8	587.8	0.0	0.0	0.0	3.2	0.0	-3.2	2,502.1	2,498.9
... Fossil Fuels Subtotal	**Utility Scale Facilities**	**759,514.6**	**9,632.3**	**12,334.9**	**756,812.0**	**-2,702.6**	**-7,315.0**	**-14,051.4**	**2,514.3**	**10,184.2**	**769.6**	**3,231.6**	**1,744.7**	**6,952.6**	**758,556.7**	**763,764.6**
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,578.1	24.0	5.0	22,597.1	19.0	39.0	39.0	130.0	130.0	0.0	0.0	130.0	130.0	22,727.1	22,727.1
..... 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	253.7	8.0	0.0	261.7	8.0	16.0	72.1	0.0	96.6	0.0	0.0	0.0	96.6	261.7	358.3
... Energy Storage Subtotal	**Utility Scale Facilities**	**22,873.8**	**32.0**	**5.0**	**22,900.8**	**27.0**	**54.0**	**110.1**	**130.0**	**226.6**	**0.0**	**0.0**	**130.0**	**226.6**	**23,030.8**	**23,127.4**
... Nuclear	**Utility Scale Facilities**	**98,706.9**	**19.5**	**107.4**	**98,619.0**	**-87.9**	**-110.0**	**28.8**	**0.0**	**1,122.0**	**0.0**	**1,314.9**	**0.0**	**-192.9**	**98,619.0**	**98,426.1**
... All Other	**Utility Scale Facilities**	**1,515.6**	**14.9**	**69.1**	**1,461.4**	**-54.2**	**-147.4**	**-147.4**	**0.0**	**22.5**	**0.0**	**0.0**	**0.0**	**22.5**	**1,461.4**	**1,483.9**
TOTAL	**UTILITY SCALE FACILITIES**	**1,066,670.9**	**10,755.3**	**13,318.9**	**1,064,107.3**	**-2,563.6**	**-5,224.9**	**-2,503.9**	**3,123.8**	**27,435.5**	**771.0**	**4,613.8**	**2,352.8**	**22,821.7**	**1,066,460.1**	**1,086,929.0**
..... Estimated Distributed Solar Photovoltaic	Distributed Facilities	9,090.7			9,169.6	78.9	790.5	2,372.6								
..... Estimated Total Solar Photovoltaic	All Facilities	21,397.7			22,050.2	652.5	2,041.4	6,134.0								
... Estimated Total Solar	**All Facilities**	**23,130.6**			**23,808.1**	**677.5**	**2,022.6**	**6,225.2**								

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

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

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

Period	Utility Solar Photovoltaic	Estimated Distributed Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
2008	70.8	N/A	N/A
2009	145.5	N/A	N/A
2010	393.4	N/A	N/A
2011	1,052.0	N/A	N/A
2012	2,694.1	N/A	N/A
2013	5,336.1	N/A	N/A
2014	8,656.6	6,221.4	14,878.0
2015	11,629.7	8,379.1	20,008.8
Year 2014			
January	5,688.0	4,763.4	10,451.4
February	5,839.2	4,862.8	10,702.0
March	5,967.9	4,970.5	10,938.4
April	6,188.0	5,077.5	11,265.5
May	6,368.8	5,190.8	11,559.6
June	6,564.1	5,291.3	11,855.4
July	6,706.3	5,413.5	12,119.8
August	7,105.0	5,609.8	12,714.8
Sept	7,215.1	5,734.2	12,949.3
October	7,575.3	5,880.0	13,455.3
November	8,005.3	6,011.2	14,016.5
December	8,656.6	6,221.4	14,878.0
Year 2015			
January	8,818.7	6,389.8	15,208.5
February	8,975.4	6,522.6	15,498.0
March	9,036.5	6,655.5	15,692.0
April	9,119.2	6,797.0	15,916.2
May	9,329.5	6,951.3	16,280.8
June	9,598.3	7,105.5	16,703.8
July	9,686.2	7,320.9	17,007.1
August	9,897.9	7,491.9	17,389.8
Sept	10,001.7	7,689.4	17,691.1
October	10,104.3	7,875.7	17,980.0
November	10,419.4	8,061.4	18,480.8
December	11,629.7	8,379.1	20,008.8
Year 2016			
January	11,831.6	8,620.7	20,452.3
February	12,117.7	8,789.5	20,907.2
March	12,307.0	9,090.7	21,397.7
April	12,880.6	9,169.6	22,050.2

Values are preliminary.

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

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

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

Values are preliminary.

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

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

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	4,994.0	4,595.4	22,756.7	22,839.8	1,797.4	1,775.4	2.0	3.0	4,018.0	4,046.3	48.0	52.9	33,616.1	33,312.8
Connecticut	333.6	331.4	6,309.2	6,266.4	29.4	29.4	0.0	0.0	2,087.8	2,122.5	26.0	30.9	8,786.0	8,780.6
Maine	2,150.5	1,795.4	2,442.5	2,645.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	22.0	4,615.0	4,462.4
Massachusetts	966.9	932.9	9,843.1	9,800.4	1,768.0	1,746.0	2.0	3.0	682.3	677.6	0.0	0.0	13,262.3	13,159.9
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	53.5	50.3	1,791.3	1,761.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,844.8	1,812.1
Vermont	557.0	550.0	99.7	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	656.7	649.5
Middle Atlantic	10,635.0	10,576.2	67,668.0	69,359.9	3,409.1	3,409.1	40.0	40.0	19,224.5	19,182.5	11.2	11.2	100,987.8	102,578.9
New Jersey	682.8	668.6	13,550.1	14,210.7	420.0	420.0	0.0	0.0	4,107.9	4,110.1	11.2	11.2	18,772.0	19,420.6
New York	7,099.6	7,048.0	25,930.3	26,520.7	1,406.1	1,406.1	20.0	20.0	5,397.6	5,431.4	0.0	0.0	39,853.6	40,426.2
Pennsylvania	2,852.6	2,859.6	28,187.6	28,628.5	1,583.0	1,583.0	20.0	20.0	9,719.0	9,641.0	0.0	0.0	42,362.2	42,732.1
East North Central	10,210.4	9,796.3	114,145.8	119,588.6	1,964.0	1,945.0	107.6	59.0	18,896.1	18,873.3	110.1	109.1	145,434.0	150,371.3
Illinois	3,977.0	3,805.1	29,893.2	29,443.5	0.0	0.0	72.6	33.0	11,589.6	11,564.1	0.0	0.0	45,532.4	44,845.7
Indiana	2,156.5	1,969.0	23,247.9	25,235.0	0.0	0.0	0.0	0.0	0.0	0.0	89.0	88.0	25,493.4	27,292.0
Michigan	2,258.4	2,147.7	20,786.0	22,306.0	1,964.0	1,945.0	0.0	0.0	3,976.5	3,982.0	0.0	0.0	28,984.9	30,380.7
Ohio	717.0	717.0	25,868.6	27,813.2	0.0	0.0	35.0	26.0	2,134.0	2,134.0	0.0	0.0	28,754.6	30,690.2
Wisconsin	1,101.5	1,157.5	14,350.1	14,790.9	0.0	0.0	0.0	0.0	1,196.0	1,193.2	21.1	21.1	16,668.7	17,162.7
West North Central	21,228.1	19,059.5	60,711.5	61,996.8	657.0	657.0	2.0	2.0	5,802.5	5,806.0	24.5	24.5	88,425.6	87,545.8
Iowa	6,353.2	5,745.5	9,532.5	10,059.4	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	16,487.1	16,406.3
Kansas	3,789.9	2,991.9	9,614.4	10,060.8	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	14,580.1	14,228.5
Minnesota	3,660.8	3,423.9	10,129.6	10,322.8	0.0	0.0	1.0	1.0	1,594.0	1,594.0	18.4	18.4	15,403.8	15,360.1
Missouri	1,032.2	1,050.8	18,892.1	18,893.5	657.0	657.0	1.0	1.0	1,190.0	1,193.0	0.0	0.0	21,772.3	21,795.3
Nebraska	1,214.7	1,105.4	6,237.1	6,384.4	0.0	0.0	0.0	0.0	1,242.1	1,242.6	0.0	0.0	8,693.9	8,732.4
North Dakota	2,741.5	2,484.0	4,615.5	4,585.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	7,362.3	7,074.9
South Dakota	2,435.8	2,258.0	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	3,948.3
South Atlantic	14,229.4	13,025.5	160,219.1	160,327.7	7,905.2	7,905.2	45.0	34.0	24,578.6	24,559.1	509.7	586.7	207,487.0	206,438.2
Delaware	44.9	43.7	3,361.1	3,042.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,406.0	3,086.1
District of Columbia	12.0	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	9.0
Florida	1,349.3	1,316.9	54,179.6	53,976.8	0.0	0.0	0.0	0.0	3,572.0	3,572.0	348.7	488.7	59,449.6	59,354.4
Georgia	3,236.9	2,959.3	27,190.9	27,454.1	1,862.2	1,862.2	0.0	0.0	4,061.0	4,061.0	0.0	44.0	36,351.0	36,380.6
Maryland	1,003.2	958.7	9,630.7	9,600.4	0.0	0.0	11.0	0.0	1,707.8	1,707.8	0.0	0.0	12,352.7	12,266.9
North Carolina	4,105.1	3,331.2	22,021.3	21,973.4	86.0	86.0	0.0	0.0	5,113.6	5,094.1	161.0	54.0	31,487.0	30,538.7
South Carolina	1,788.2	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	22,693.4	22,824.0
Virginia	1,759.8	1,750.2	18,030.2	17,143.4	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	26,599.0	25,702.6
West Virginia	930.0	886.0	14,163.3	15,355.9	0.0	0.0	34.0	34.0	0.0	0.0	0.0	0.0	15,127.3	16,275.9
East South Central	8,165.9	7,956.3	66,885.3	69,976.3	1,616.3	1,616.3	0.0	0.0	9,868.1	9,875.6	1.4	1.4	86,537.0	89,425.9
Alabama	3,931.5	3,886.9	21,159.5	22,793.0	0.0	0.0	0.0	0.0	5,066.4	5,066.4	0.0	0.0	30,157.4	31,746.3
Kentucky	1,070.6	905.6	19,004.5	19,683.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,075.1	20,588.8
Mississippi	274.7	274.7	14,407.4	14,405.7	0.0	0.0	0.0	0.0	1,401.0	1,408.5	1.4	1.4	16,084.5	16,090.3
Tennessee	2,889.1	2,889.1	12,313.9	13,094.4	1,616.3	1,616.3	0.0	0.0	3,400.7	3,400.7	0.0	0.0	20,220.0	21,000.5
West South Central	27,754.0	23,721.3	145,023.1	146,750.0	286.0	288.0	36.0	36.0	8,896.2	8,912.4	512.2	513.2	182,507.5	180,220.9
Arkansas	1,590.6	1,632.0	11,279.6	11,270.5	28.0	28.0	0.0	0.0	1,808.5	1,819.6	0.0	0.0	14,706.7	14,750.1
Louisiana	642.1	642.1	23,313.9	23,605.8	0.0	0.0	0.0	0.0	2,127.7	2,132.8	275.9	275.8	26,359.6	26,656.5
Oklahoma	6,389.5	4,718.9	18,175.4	19,245.6	258.0	260.0	0.0	0.0	0.0	0.0	0.0	0.0	24,822.9	24,224.5
Texas	19,131.8	16,728.3	92,254.2	92,628.1	0.0	0.0	36.0	36.0	4,960.0	4,960.0	236.3	237.4	116,618.3	114,589.8
Mountain	22,450.4	20,897.5	64,087.8	63,943.2	778.8	778.8	2.6	2.6	3,937.0	3,937.0	111.4	111.4	91,368.0	89,670.5
Arizona	4,553.0	4,406.6	19,382.4	19,674.4	216.3	216.3	0.0	0.0	3,937.0	3,937.0	0.0	0.0	28,088.7	28,234.3
Colorado	3,857.7	3,398.8	11,363.0	10,986.2	562.5	562.5	0.0	0.0	0.0	0.0	9.3	9.3	15,792.5	14,956.8
Idaho	3,776.1	3,776.1	1,157.5	1,152.9	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	4,948.4	4,943.8
Montana	3,414.1	3,397.8	2,740.4	2,762.7	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,198.5	6,204.5
Nevada	2,725.0	2,366.6	8,258.7	8,258.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,983.7	10,625.3
New Mexico	1,513.6	1,167.2	6,936.9	6,914.8	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,453.1	8,084.6
Utah	896.5	670.0	7,462.4	7,454.4	0.0	0.0	0.0	0.0	0.0	0.0	31.8	31.8	8,390.7	8,156.2
Wyoming	1,714.4	1,714.4	6,786.5	6,739.1	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,512.4	8,465.0
Pacific Contiguous	63,567.0	62,069.7	51,152.1	51,949.9	4,183.3	4,183.3	20.5	8.0	3,398.0	3,398.0	106.3	171.8	122,427.2	121,780.7
California	26,842.6	25,375.1	42,484.6	43,297.4	3,869.3	3,869.3	18.5	8.0	2,240.0	2,240.0	106.3	121.0	75,561.3	74,910.8
Oregon	12,041.1	12,037.0	3,859.8	3,859.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,900.9	15,896.6
Washington	24,683.3	24,657.6	4,807.7	4,792.9	314.0	314.0	2.0	0.0	1,158.0	1,158.0	0.0	50.8	30,965.0	30,973.3
Pacific Noncontiguous	1,079.9	1,060.4	4,162.6	4,131.2	0.0	0.0	48.0	48.0	0.0	0.0	26.6	26.6	5,317.1	5,266.2
Alaska	508.7	507.5	2,105.4	2,059.2	0.0	0.0	27.0	27.0	0.0	0.0	0.0	0.0	2,641.1	2,593.7
Hawaii	571.2	552.9	2,057.2	2,072.0	0.0	0.0	21.0	21.0	0.0	0.0	26.6	26.6	2,676.0	2,672.5
U.S. Total	184,314.1	172,758.1	756,812.0	770,863.4	22,597.1	22,558.1	303.7	232.6	98,619.0	98,590.2	1,461.4	1,608.8	1,064,107.3	1,066,611.2

Values are preliminary.

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of 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, April 2016 and 2015 (Megawatts)

Census Division and State	Summer Capacity at Utility Scale Facilities														Distributed Capacity		Summer Capacity From Utility Scale Facilities and Distributed Capacity			
	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Distributed Solar Photovoltaic Capacity		Estimated Total Solar Photovoltaic Capacity		Estimated Total Solar Capacity	
	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	1,004.7	808.2	385.4	351.0	0.0	0.0	1,955.2	1,965.9	1,648.7	1,470.3	0.0	0.0	4,994.0	4,595.4	868.0	612.8	1,253.4	963.8	1,253.4	963.8
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	171.5	100.4	183.7	110.4	183.7	110.4
Maine	612.8	430.6	0.0	0.0	0.0	0.0	728.9	733.0	808.8	631.8	0.0	0.0	2,150.5	1,795.4	16.1	9.9	16.1	9.9	16.1	9.9
Massachusetts	82.6	82.6	335.1	303.9	0.0	0.0	265.9	263.1	283.3	283.3	0.0	0.0	966.9	932.9	585.3	447.6	920.4	751.5	920.4	751.5
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	27.4	11.9	27.4	11.9	27.4	11.9
Rhode Island	6.0	3.8	7.9	6.9	0.0	0.0	2.7	2.7	36.9	36.9	0.0	0.0	53.5	50.3	11.4	8.1	19.3	15.0	19.3	15.0
Vermont	120.2	120.2	30.2	30.2	0.0	0.0	330.7	323.6	75.9	76.0	0.0	0.0	557.0	550.0	56.3	34.9	86.5	65.1	86.5	65.1
Middle Atlantic	3,088.1	3,098.5	541.8	513.7	0.0	0.0	5,623.5	5,618.8	1,381.6	1,345.2	0.0	0.0	10,635.0	10,576.2	1,555.2	1,216.3	2,097.0	1,730.0	2,097.0	1,730.0
New Jersey	7.6	7.6	433.8	417.9	0.0	0.0	12.3	12.3	229.1	230.8	0.0	0.0	682.8	668.6	887.8	759.8	1,321.6	1,177.7	1,321.6	1,177.7
New York	1,747.0	1,747.0	65.8	53.7	0.0	0.0	4,711.6	4,713.1	575.2	534.2	0.0	0.0	7,099.6	7,048.0	506.7	312.0	572.5	365.7	572.5	365.7
Pennsylvania	1,333.5	1,343.9	42.2	42.1	0.0	0.0	899.6	893.4	577.3	580.2	0.0	0.0	2,852.6	2,859.6	160.7	144.5	202.9	186.6	202.9	186.6
East North Central	7,814.1	7,480.4	215.3	165.6	0.0	0.0	910.3	918.2	1,270.7	1,232.1	0.0	0.0	10,210.4	9,796.3	145.8	122.6	361.1	288.2	361.1	288.2
Illinois	3,799.8	3,624.8	32.8	31.9	0.0	0.0	34.1	34.1	110.3	114.3	0.0	0.0	3,977.0	3,805.1	18.2	15.4	51.0	47.3	51.0	47.3
Indiana	1,889.7	1,739.7	131.9	94.1	0.0	0.0	60.4	60.4	74.5	74.8	0.0	0.0	2,156.5	1,969.0	12.1	7.6	144.0	101.7	144.0	101.7
Michigan	1,360.1	1,360.1	6.9	1.0	0.0	0.0	330.9	333.1	560.5	453.5	0.0	0.0	2,258.4	2,147.7	28.8	25.6	35.7	26.6	35.7	26.6
Ohio	433.1	424.1	42.7	37.6	0.0	0.0	101.9	101.9	139.3	153.4	0.0	0.0	717.0	717.0	64.6	55.9	107.3	93.5	107.3	93.5
Wisconsin	331.4	331.7	1.0	1.0	0.0	0.0	383.0	388.7	386.1	436.1	0.0	0.0	1,101.5	1,157.5	22.1	18.2	23.1	19.2	23.1	19.2
West North Central	17,382.2	15,231.5	16.5	10.4	0.0	0.0	3,278.5	3,300.8	550.9	516.8	0.0	0.0	21,228.1	19,059.5	154.5	128.0	171.0	138.4	171.0	138.4
Iowa	6,185.1	5,580.2	0.0	0.0	0.0	0.0	144.9	144.9	23.2	20.4	0.0	0.0	6,353.2	5,745.5	27.1	21.7	27.1	21.7	27.1	21.7
Kansas	3,772.9	2,968.9	1.0	1.0	0.0	0.0	7.0	7.0	9.0	15.0	0.0	0.0	3,789.9	2,991.9	3.6	2.5	4.6	3.5	4.6	3.5
Minnesota	2,985.1	2,787.8	4.0	1.7	0.0	0.0	195.0	195.0	476.7	439.4	0.0	0.0	3,660.8	3,423.9	21.1	15.9	25.1	17.6	25.1	17.6
Missouri	458.5	458.5	11.5	7.7	0.0	0.0	545.7	568.1	16.5	16.5	0.0	0.0	1,032.2	1,050.8	101.1	86.5	112.6	94.2	112.6	94.2
Nebraska	921.1	811.9	0.0	0.0	0.0	0.0	277.9	277.8	15.7	15.7	0.0	0.0	1,214.7	1,105.4	NM	0.8	NM	0.8	NM	0.8
North Dakota	2,221.7	1,964.2	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	2,741.5	2,484.0	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	837.8	660.0	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	2,258.0	0.4	0.3	0.4	0.3	0.4	0.3
South Atlantic	775.3	745.3	2,109.7	937.4	0.0	0.0	7,251.7	7,198.0	4,092.7	4,144.8	0.0	0.0	14,229.4	13,025.5	703.2	441.9	2,812.9	1,379.3	2,812.9	1,379.3
Delaware	2.0	2.0	30.7	29.5	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	44.9	43.7	55.0	40.0	85.7	69.5	85.7	69.5
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	12.0	0.0	23.3	16.6	23.3	16.6	23.3	16.6
Florida	0.0	0.0	86.2	72.9	0.0	0.0	54.5	54.5	1,208.6	1,189.5	0.0	0.0	1,349.3	1,316.9	114.7	80.9	200.9	153.8	200.9	153.8
Georgia	0.0	0.0	292.6	68.6	0.0	0.0	2,047.5	2,047.6	896.8	843.1	0.0	0.0	3,236.9	2,959.3	55.0	50.8	347.6	119.4	347.6	119.4
Maryland	190.0	160.0	81.2	63.6	0.0	0.0	590.0	590.0	142.0	145.1	0.0	0.0	1,003.2	958.7	340.5	167.1	421.7	230.7	421.7	230.7
North Carolina	0.0	0.0	1,613.5	700.3	0.0	0.0	2,004.1	1,999.1	487.5	631.8	0.0	0.0	4,105.1	3,331.2	75.4	63.9	1,688.9	764.2	1,688.9	764.2
South Carolina	0.0	0.0	2.5	2.5	0.0	0.0	1,345.1	1,340.3	440.6	436.7	0.0	0.0	1,788.2	1,779.5	11.0	3.4	13.5	5.9	13.5	5.9
Virginia	0.0	0.0	3.0	0.0	0.0	0.0	866.0	866.0	890.8	884.2	0.0	0.0	1,759.8	1,750.2	24.9	16.5	27.9	16.5	27.9	16.5
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	3.5	2.6	3.5	2.6	3.5	2.6
East South Central	29.1	29.1	45.2	45.2	0.0	0.0	6,890.5	6,724.9	1,201.1	1,157.1	0.0	0.0	8,165.9	7,956.3	49.9	48.8	95.1	94.0	95.1	94.0
Alabama	0.0	0.0	0.0	0.0	0.0	0.0	3,271.0	3,271.0	660.5	615.9	0.0	0.0	3,931.5	3,886.9	1.9	1.9	1.9	1.9	1.9	1.9
Kentucky	0.0	0.0	0.0	0.0	0.0	0.0	1,000.9	835.3	69.7	70.3	0.0	0.0	1,070.6	905.6	9.7	8.4	9.7	8.4	9.7	8.4
Mississippi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	274.7	274.7	1.2	1.4	1.2	1.4	1.2	1.4
Tennessee	29.1	29.1	45.2	45.2	0.0	0.0	2,618.6	2,618.6	196.2	196.2	0.0	0.0	2,889.1	2,889.1	37.1	37.1	82.3	82.3	82.3	82.3
West South Central	23,109.1	19,159.4	330.4	185.7	0.0	0.0	2,986.5	3,049.6	1,328.0	1,326.6	0.0	0.0	27,754.0	23,721.3	275.7	184.6	606.1	370.3	606.1	370.3
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	4.1	3.2	16.1	3.2	16.1	3.2
Louisiana	0.0	0.0	0.0	0.0	0.0	0.0	192.0	192.0	450.1	450.1	0.0	0.0	642.1	642.1	114.4	80.1	114.4	80.1	114.4	80.1
Oklahoma	5,451.2	3,779.5	2.5	0.0	0.0	0.0	859.6	863.2	76.2	76.2	0.0	0.0	6,389.5	4,718.9	2.2	1.7	4.7	1.7	4.7	1.7
Texas	17,657.9	15,379.9	315.9	185.7	0.0	0.0	668.7	670.8	489.3	491.9	0.0	0.0	19,131.8	16,728.3	154.9	99.7	470.8	285.4	470.8	285.4
Mountain	7,901.4	7,096.8	2,809.6	2,169.3	473.9	363.9	10,560.5	10,560.8	176.4	178.2	528.6	528.5	22,450.4	20,897.5	1,270.5	956.4	4,080.1	3,125.7	4,554.0	3,489.6
Arizona	267.3	237.3	1,238.7	1,118.3	295.4	295.4	2,720.9	2,720.9	30.7	34.7	0.0	0.0	4,553.0	4,406.6	680.0	559.9	1,918.7	1,678.2	2,214.1	1,973.6
Colorado	2,961.8	2,566.1	192.0	129.0	0.0	0.0	676.5	676.3	27.4	27.4	0.0	0.0	3,857.7	3,398.8	266.3	231.6	458.3	360.6	458.3	360.6
Idaho	962.7	962.7	0.0	0.0	0.0	0.0	2,707.7	2,707.7	95.7	95.7	10.0	10.0	3,776.1	3,776.1	5.3	3.4	5.3	3.4	5.3	3.4
Montana	653.5	636.7	0.0	0.0	0.0	0.0	2,757.6	2,758.1	3.0	3.0	0.0	0.0	3,414.1	3,397.8	6.6	4.9	6.6	4.9	6.6	4.9
Nevada	150.0	150.0	897.9	649.6	178.5	68.5	1,051.4	1,051.4	3.2	3.2	444.0	443.9	2,725.0	2,366.6	162.8	57.7	1,060.7	707.3	1,239.2	775.8
New Mexico	1,112.3	812.3	314.6	268.2	0.0	0.0	82.9	82.9	2.2	2.2	1.6	1.6	1,513.6	1,167.2	81.1	66.0	395.7	334.2	395.7	334.2
Utah	386.5	324.4	166.4	4.2	0.0	0.0	256.4	256.4	14.2	12.0	73.0	73.0	896.5	670.0	66.5	31.4	232.9	35.6	232.9	35.6
Wyoming	1,407.3	1,407.3	0.0	0.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,714.4	1,714.4	NM	1.6	NM	1.6	NM	1.6
Pacific Contiguous	11,953.0	12,144.7	6,382.5	4,708.7	1,284.0	1,302.8	39,919.1	39,880.7	2,074.7	2,059.9	1,953.7	1,972.9	63,567.0	62,069.7	3,748.1	2,752.7	10,130.6	7,461.4	11,414.6	8,764.2
California	5,722.5	5,914.2	6,360.8	4,694.3	1,284.0	1,302.8	10,187.0	10,175.9	1,354.1	1,332.7	1,934.2	1,955.2	26,842.6	25,375.1	3,611.5	2,653.1	9,972.3	7,347.4	11,256.3	8,650.2
Oregon	3,157.4	3,157.4	21.2	13.9	0.0	0.0	8,525.4	8,516.8	317.6	331.2	19.5	17.7	12,041.1	12,037.0	77.7	64.6	98.9	78.5	98.9	78.5
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,206.7	21,188.0	403.0	396.0	0.0	0.0	24,683.3	24,657.6	58.9	35.0	59.4	35.5	59.4	35.5
Pacific Noncontiguous	266.2	265.6	44.2	32.2	0.0	0.0	466.1	465.5	260.4	254.1	43.0	43.0	1,079.9	1,060.4	398.7	333.0	442.9	365.2	442.9	365.2
Alaska	60.6	60.0	0.0	0.0	0.0	0.0	441.1	440.5	7.0	7.0	0.0	0.0	508.7	507.5	0.0	0.0	0.0	0.0	0.0	0.0
Hawaii	205.6	205.6	44.2	32.2	0.0	0.0	25.0	25.0	253.4	247.1	43.0	43.0	571.2	552.9	398.7	333.0	442.9	365.2	442.9	365.2
U.S. Total	73,323.2	66,059.5	12,880.6	9,119.2	1,757.9	1,666.7	79,841.9	79,683.2	13,985.2	13,685.1	2,525.3	2,544.4	184,314.1	172,758.1	9,169.6	6,797.0	22,050.2	15,916.2	23,808.1	17,582.9

Values are preliminary.

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

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, April 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	
	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015	April 2016	April 2015
New England	11,893.0	11,785.4	1,118.4	1,110.1	641.6	961.2	1,988.3	2,076.8	0.0	0.0	7,115.4	6,906.3	0.0	0.0	22,756.7	22,839.8
Connecticut	2,547.5	2,504.6	482.2	482.2	416.6	64.7	383.4	383.4	0.0	0.0	2,479.5	2,831.5	0.0	0.0	6,309.2	6,266.4
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	198.1	765.1	1,071.0	1,074.5	0.0	0.0	3,140.1	2,566.3	0.0	0.0	9,843.1	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	24,636.5	23,335.8	7,617.2	8,831.3	12,611.2	11,070.7	17,233.0	18,572.3	78.6	11.6	5,391.1	7,437.8	100.4	100.4	67,668.0	69,359.9
New Jersey	8,044.6	6,620.2	2,834.6	4,081.5	512.6	514.6	1,865.0	1,870.0	11.6	11.6	281.7	1,112.8	0.0	0.0	13,550.1	14,210.7
New York	8,069.4	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	3,484.1	3,945.3	0.0	0.0	25,930.3	26,520.7
Pennsylvania	8,522.5	8,463.0	1,677.4	1,677.4	2,576.6	1,795.6	13,618.4	14,212.4	67.0	0.0	1,625.3	2,379.7	100.4	100.4	28,187.6	28,628.5
East North Central	17,005.2	16,454.9	25,510.3	25,652.9	3,850.5	3,661.6	63,360.7	69,619.1	521.6	521.6	2,724.4	2,743.8	1,173.1	934.7	114,145.8	119,588.6
Illinois	3,543.0	2,972.4	10,164.4	10,183.3	291.7	233.0	15,096.1	15,254.9	0.0	0.0	680.3	682.2	117.7	117.7	29,893.2	29,443.5
Indiana	2,480.2	2,480.2	3,127.6	3,142.6	641.7	76.0	15,865.8	18,389.0	274.0	274.0	270.3	273.3	588.3	599.9	23,247.9	25,235.0
Michigan	4,296.5	4,292.5	3,428.5	3,543.8	2,465.8	3,036.1	9,767.5	10,848.4	47.2	47.2	530.5	538.0	250.0	0.0	20,786.0	22,306.0
Ohio	4,044.6	4,044.6	5,427.7	5,427.7	131.4	131.4	15,259.9	17,197.5	142.0	142.0	645.9	652.9	217.1	217.1	25,868.6	27,813.2
Wisconsin	2,640.9	2,665.2	3,362.1	3,355.5	319.9	185.1	7,371.4	7,929.3	58.4	58.4	597.4	597.4	0.0	0.0	14,350.1	14,790.9
West North Central	5,902.9	5,751.8	11,393.8	11,505.8	3,935.9	3,350.4	35,340.5	37,267.9	32.0	32.0	4,098.0	4,080.5	8.4	8.4	60,711.5	61,996.8
Iowa	1,125.8	1,131.0	1,105.6	1,104.4	535.4	344.2	5,719.1	6,444.1	32.0	32.0	1,014.6	1,003.7	0.0	0.0	9,532.5	10,059.4
Kansas	149.0	0.0	2,184.8	2,336.8	2,054.5	2,088.0	4,687.2	5,097.1	0.0	0.0	538.9	538.9	0.0	0.0	9,614.4	10,060.8
Minnesota	2,158.2	2,158.2	2,534.1	2,533.7	264.9	271.4	4,373.0	4,561.6	0.0	0.0	799.4	797.9	0.0	0.0	10,129.6	10,322.8
Missouri	1,837.3	1,830.0	3,395.2	3,355.4	659.1	230.8	11,855.8	12,337.6	0.0	0.0	1,144.7	1,139.7	0.0	0.0	18,892.1	18,893.5
Nebraska	342.6	342.6	1,151.5	1,152.9	413.3	407.3	4,016.0	4,167.9	0.0	0.0	313.7	313.7	0.0	0.0	6,237.1	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	51,223.3	47,515.3	31,112.1	31,856.2	7,032.2	6,483.6	58,794.3	60,921.6	83.8	669.8	11,838.4	12,746.2	135.0	135.0	160,219.1	160,327.7
Delaware	1,512.0	1,196.0	314.0	311.0	876.0	876.0	410.0	410.0	0.0	0.0	114.1	114.4	135.0	135.0	3,361.1	3,042.4
District of Columbia	0.0	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
Florida	27,505.6	25,545.6	7,480.4	8,404.0	3,034.7	2,792.3	10,314.0	10,085.0	0.0	586.0	5,844.9	6,563.9	0.0	0.0	54,179.6	53,976.8
Georgia	7,953.2	7,961.8	7,857.0	7,823.4	778.2	470.0	9,519.7	10,116.4	83.8	83.8	999.0	998.7	0.0	0.0	27,190.9	27,454.1
Maryland	250.0	250.0	1,581.0	1,471.1	1,489.8	1,489.8	4,712.0	4,739.0	0.0	0.0	1,597.9	1,650.5	0.0	0.0	9,630.7	9,600.4
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	267.5	270.8	5,575.5	5,575.5	0.0	0.0	525.4	661.4	0.0	0.0	11,633.0	11,772.3
Virginia	6,827.5	5,414.4	3,894.1	3,879.1	586.0	584.7	4,379.3	4,921.3	0.0	0.0	2,343.3	2,343.9	0.0	0.0	18,030.2	17,143.4
West Virginia	0.0	0.0	1,071.3	1,071.3	0.0	0.0	13,081.0	14,273.6	0.0	0.0	11.0	11.0	0.0	0.0	14,163.3	15,355.9
East South Central	19,040.8	18,380.4	13,003.3	12,887.5	3,757.0	2,744.1	30,832.4	35,713.7	0.0	0.0	152.0	150.8	99.8	99.8	66,885.3	69,976.3
Alabama	9,397.8	9,391.3	2,530.6	2,530.6	506.3	189.3	8,582.4	10,539.4	0.0	0.0	42.6	42.6	99.8	99.8	21,159.5	22,793.0
Kentucky	663.3	0.0	4,976.6	4,870.6	0.0	0.0	13,352.7	14,800.7	0.0	0.0	11.9	11.9	0.0	0.0	19,004.5	19,683.2
Mississippi	7,576.7	7,586.1	1,718.9	1,716.9	3,247.5	2,533.6	1,820.0	2,526.0	0.0	0.0	44.3	43.1	0.0	0.0	14,407.4	14,405.7
Tennessee	1,403.0	1,403.0	3,777.2	3,769.4	3.2	21.2	7,077.3	7,847.6	0.0	0.0	53.2	53.2	0.0	0.0	12,313.9	13,094.4
West South Central	58,990.1	58,770.5	12,818.6	12,585.8	34,412.6	36,052.4	37,008.9	37,921.9	955.4	903.2	177.7	185.4	659.8	330.8	145,023.1	146,750.0
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	7,570.5	7,548.1	2,366.4	2,649.8	8,604.6	9,022.4	3,431.5	3,418.6	891.6	892.6	41.9	49.1	407.4	25.2	23,313.9	23,605.8
Oklahoma	6,720.2	7,216.1	1,292.2	1,316.7	5,222.1	5,381.1	4,866.5	5,257.3	0.0	0.0	74.4	74.4	0.0	0.0	18,175.4	19,245.6
Texas	40,096.5	39,409.0	8,434.2	7,893.5	19,769.6	20,838.2	23,588.5	24,121.5	63.8	10.6	49.2	49.7	252.4	305.6	92,254.2	92,628.1
Mountain	22,487.3	21,919.4	8,981.6	8,921.5	3,141.6	3,220.4	28,944.6	29,372.0	52.0	52.0	370.8	370.8	109.9	87.1	64,087.8	63,943.2
Arizona	9,866.7	9,868.7	2,367.6	2,367.6	1,147.6	1,177.6	5,910.0	6,170.0	0.0	0.0	90.5	90.5	0.0	0.0	19,382.4	19,674.4
Colorado	3,240.5	2,651.7	2,590.3	2,535.3	274.0	349.0	5,089.8	5,281.8	0.0	0.0	168.4	168.4	0.0	0.0	11,363.0	10,986.2
Idaho	568.5	568.5	562.1	557.5	4.3	4.3	17.2	17.2	0.0	0.0	5.4	5.4	0.0	0.0	1,157.5	1,152.9
Montana	0.0	0.0	321.6	362.1	72.2	54.0	2,293.1	2,293.1	52.0	52.0	0.0	0.0	1.5	1.5	2,740.4	2,762.7
Nevada	5,418.6	5,418.6	1,385.6	1,385.6	451.1	451.1	997.4	997.4	0.0	0.0	6.0	6.0	0.0	0.0	8,258.7	8,258.7
New Mexico	1,469.0	1,487.9	1,080.6	1,039.6	849.4	849.4	3,471.0	3,471.0	0.0	0.0	66.9	66.9	0.0	0.0	6,936.9	6,914.8
Utah	1,830.0	1,830.0	520.2	520.2	330.4	322.4	4,754.0	4,754.0	0.0	0.0	27.8	27.8	0.0	0.0	7,462.4	7,454.4
Wyoming	94.0	94.0	153.6	153.6	12.6	12.6	6,412.1	6,387.5	0.0	0.0	5.8	5.8	108.4	85.6	6,786.5	6,739.1
Pacific Contiguous	25,141.4	25,309.9	11,457.0	11,372.8	11,890.1	12,629.8	2,015.0	2,015.0	17.0	0.0	422.3	410.7	209.3	211.7	51,152.1	51,949.9
California	19,561.3	19,624.4	10,561.8	10,597.8	11,638.1	12,378.0	90.0	90.0	17.0	0.0	407.1	395.5	209.3	211.7	42,484.6	43,297.4
Oregon	2,916.6	2,916.6	133.8	133.8	224.4	224.2	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	3,859.8	3,859.6
Washington	2,663.5	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	4,807.7	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	2,575.1	2,574.7	6.4	6.4	4,162.6	4,131.2
Alaska	418.0	561.2	654.3	527.8	175.0	175.0	153.8	106.1	0.0	0.0	704.3	689.1	0.0	0.0	2,105.4	2,059.2
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,870.8	1,885.6	6.4	6.4	2,057.2	2,072.0
U.S. Total	236,738.5	229,784.6	123,666.6	125,251.7	81,447.7	80,349.2	275,851.5	293,766.4	1,740.4	2,190.2	34,865.2	37,607.0	2,502.1	1,914.3	756,812.0	770,863.4

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 existing or planned capacity for some technologies such as solar photovoltaic generation.

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

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

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2016	4	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN9	0.1	Conventional Hydroelectric	WAT	HY
2016	4	59842	Blythe Solar 110, LLC	IPP	Blythe Solar 110, LLC	CA	60093	BLCK2	36.3	Solar Photovoltaic	SUN	PV
2016	4	59842	Blythe Solar 110, LLC	IPP	Blythe Solar 110, LLC	CA	60093	BLCK3	34.8	Solar Photovoltaic	SUN	PV
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN01	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN02	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN03	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN04	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN05	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN06	3.4	Landfill Gas	LFG	IC
2016	4	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN07	3.4	Landfill Gas	LFG	IC
2016	4	57260	CSOLAR IV West LLC	IPP	Imperial Solar Energy Center West	CA	57491	56819	148.7	Solar Photovoltaic	SUN	PV
2016	4	7977	City of Hamilton - (OH)	Electric Utility	Meldahl Hydroelectric Project	KY	56872	3	35.0	Conventional Hydroelectric	WAT	HY
2016	4	4254	Consumers Energy Co	Electric Utility	Grand Valley Solar Gardens	MI	60118	1	3.0	Solar Photovoltaic	SUN	PV
2016	4	59745	First Solar Asset Management	IPP	Kingbird A Solar LLC	CA	59868	GEN01	20.0	Solar Photovoltaic	SUN	PV
2016	4	59745	First Solar Asset Management	IPP	Kingbird B Solar, LLC	CA	60091	GEN01	20.0	Solar Photovoltaic	SUN	PV
2016	4	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5A	1,260.0	Natural Gas Fired Combined Cycle	NG	CT
2016	4	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5B		Natural Gas Fired Combined Cycle	NG	CT
2016	4	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5C		Natural Gas Fired Combined Cycle	NG	CT
2016	4	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5ST		Natural Gas Fired Combined Cycle	NG	CA
2016	4	59403	Gaston Solar LLC	IPP	Gaston Solar	NC	59642	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	4	59462	Heelstone Energy Holdings, LLC	IPP	Crestwood Solar Center LLC	NC	59914	CREST	5.0	Solar Photovoltaic	SUN	PV
2016	4	49893	Invenergy Services LLC	IPP	Prairie Breeze III	NE	60314	GEN1	35.8	Onshore Wind Turbine	WND	WT
2016	4	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK2	21.0	Solar Photovoltaic	SUN	PV
2016	4	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	10	9.2	Natural Gas Internal Combustion Engine	NG	IC
2016	4	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	11	9.2	Natural Gas Internal Combustion Engine	NG	IC
2016	4	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	12	9.2	Natural Gas Internal Combustion Engine	NG	IC
2016	4	59911	Milo Solar LLC	IPP	Milo Solar	NC	58739	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	4	59913	Minnie Solar LLC	IPP	Minnie Solar	NC	58740	PV1	3.0	Solar Photovoltaic	SUN	PV
2016	4	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	2	9.1	Natural Gas Internal Combustion Engine	NG	IC
2016	4	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	3	9.1	Natural Gas Internal Combustion Engine	NG	IC
2016	4	59916	Owen Solar LLC	IPP	Owen Solar	NC	58742	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	1	1.6	Landfill Gas	LFG	IC
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	2	1.6	Landfill Gas	LFG	IC
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	3	1.6	Landfill Gas	LFG	IC
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	4	1.6	Landfill Gas	LFG	IC
2016	4	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	5	1.6	Landfill Gas	LFG	IC
2016	4	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK5	35.0	Solar Photovoltaic	SUN	PV
2016	4	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK6	36.6	Solar Photovoltaic	SUN	PV
2016	4	57313	SolarCity Corporation	IPP	Genentech-Oceanside	CA	60231	PV1	4.5	Solar Photovoltaic	SUN	PV
2016	4	59914	Sophie Solar LLC	IPP	Sophie Solar	NC	58745	PV1	4.5	Solar Photovoltaic	SUN	PV
2016	4	17609	Southern California Edison Co	Electric Utility	Tehachapi Energy Storage Project	CA	59661	TSP1	8.0	Batteries	MWH	BA
2016	4	17650	Southern Power Co	IPP	Grant Wind, LLC	OK	60013	GRANT	151.8	Onshore Wind Turbine	WND	WT
2016	4	17650	Southern Power Co	IPP	Stateline Solar	CA	58646	STL6	37.9	Solar Photovoltaic	SUN	PV
2016	4	59915	Star Solar LLC	IPP	Star Solar	NC	58746	PV1	5.0	Solar Photovoltaic	SUN	PV
2016	4	58661	Sustainable Power Group, LLC	Commercial	Southbridge Solar	MA	60278	SBRDG	1.9	Solar Photovoltaic	SUN	PV
2016	4	19497	United Illuminating Co	Electric Utility	UI RCP Bridgeport Seaside	CT	60054	BPPV	2.2	Solar Photovoltaic	SUN	PV
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT01	263.9	Natural Gas Fired Combined Cycle	NG	CT
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT02	263.9	Natural Gas Fired Combined Cycle	NG	CT
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT03	263.9	Natural Gas Fired Combined Cycle	NG	CT
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	ST01	579.4	Natural Gas Fired Combined Cycle	NG	CA
2016	4	19876	Virginia Electric & Power Co	Electric Utility	Western Branch High School	VA	59904	1	1.0	Solar Photovoltaic	SUN	PV
2016	4	58982	Woodland Solar LLC	IPP	Woodland Solar	NC	59175	5MWPV	5.0	Solar Photovoltaic	SUN	PV
2016	4	60059	ZGlobal Inc	IPP	Castor Solar	CA	60277	CASTR	1.5	Solar Photovoltaic	SUN	PV

NOTES:

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

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

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

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2016

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2016	1	9231	City of Independence - (MO)	Electric Utility	Missouri City	MO	2171	1	19.0	Conventional Steam Coal	BIT	ST
2016	1	9231	City of Independence - (MO)	Electric Utility	Missouri City	MO	2171	2	19.0	Conventional Steam Coal	BIT	ST
2016	2	3900	City of Coggon - (IA)	Electric Utility	Coggon	IA	1132	IC1	0.6	Petroleum Liquids	DFO	IC
2016	2	11142	City of Logansport - (IN)	Electric Utility	Logansport	IN	1032	4	16.5	Conventional Steam Coal	BIT	ST
2016	2	11142	City of Logansport - (IN)	Electric Utility	Logansport	IN	1032	5	22.0	Conventional Steam Coal	BIT	ST
2016	2	11142	City of Logansport - (IN)	Electric Utility	Logansport	IN	1032	6	15.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	2	17872	City of St Francis - (KS)	Electric Utility	St Francis	KS	1321	3	0.8	Petroleum Liquids	DFO	IC
2016	2	4161	Constellation Power Source Gen	IPP	Perryman	MD	1556	GT2	51.0	Petroleum Liquids	DFO	GT
2016	3	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P1	10.0	Petroleum Liquids	DFO	GT
2016	3	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P2	10.0	Petroleum Liquids	DFO	GT
2016	3	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P4	59.0	Petroleum Liquids	DFO	GT
2016	3	7801	Gulf Power Co	Electric Utility	Lansing Smith	FL	643	1	162.0	Conventional Steam Coal	BIT	ST
2016	3	7801	Gulf Power Co	Electric Utility	Lansing Smith	FL	643	2	195.0	Conventional Steam Coal	BIT	ST
2016	3	13168	NRG Huntley Operations Inc	IPP	C R Huntley Generating Station	NY	2549	67	190.0	Conventional Steam Coal	SUB	ST
2016	3	13168	NRG Huntley Operations Inc	IPP	C R Huntley Generating Station	NY	2549	S68	190.0	Conventional Steam Coal	SUB	ST
2016	3	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	2	87.0	Conventional Steam Coal	SUB	ST
2016	4	4045	City of Columbia - (MO)	Electric Utility	Columbia (MO)	MO	2123	5	16.5	Conventional Steam Coal	BIT	ST
2016	4	4254	Consumers Energy Co	Electric Utility	B C Cobb	MI	1695	4	156.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	B C Cobb	MI	1695	5	156.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J C Weadock	MI	1720	7	152.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J C Weadock	MI	1720	8	151.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J R Whiting	MI	1723	1	102.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J R Whiting	MI	1723	2	95.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J R Whiting	MI	1723	3	122.0	Conventional Steam Coal	SUB	ST
2016	4	5109	DTE Electric Company	Electric Utility	Trenton Channel	MI	1745	7	110.0	Conventional Steam Coal	SUB	ST
2016	4	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	2	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	3	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	4	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana, LLC	Electric Utility	Wabash River	IN	1010	5	95.0	Conventional Steam Coal	BIT	ST
2016	4	5580	East Kentucky Power Coop, Inc	Electric Utility	Dale	KY	1385	3	74.0	Conventional Steam Coal	BIT	ST
2016	4	5580	East Kentucky Power Coop, Inc	Electric Utility	Dale	KY	1385	4	75.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	3	40.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	4	56.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	5	62.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	6	99.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	IC1	3.0	Petroleum Liquids	DFO	IC
2016	4	12341	MidAmerican Energy Co	Electric Utility	George Neal North	IA	1091	1	134.3	Conventional Steam Coal	SUB	ST
2016	4	12341	MidAmerican Energy Co	Electric Utility	George Neal North	IA	1091	2	283.7	Conventional Steam Coal	SUB	ST
2016	4	26840	Port Townsend Paper Co	Industrial	Port Townsend Paper	WA	50544	GEN4	3.0	Wood/Wood Waste Biomass	BLQ	ST
2016	4	15474	Public Service Co of Oklahoma	Electric Utility	Northeastern	OK	2963	4	460.0	Conventional Steam Coal	SUB	ST
2016	4	17698	Southwestern Electric Power Co	Electric Utility	Welsh	TX	6139	2	528.0	Conventional Steam Coal	SUB	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	1	178.0	Conventional Steam Coal	BIT	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	2	178.0	Conventional Steam Coal	BIT	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	3	178.0	Conventional Steam Coal	BIT	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	4	178.0	Conventional Steam Coal	BIT	ST
2016	4	20847	Wisconsin Electric Power Co	Electric Utility	Milwaukee County	WI	7549	1	7.0	Conventional Steam Coal	SUB	ST

NOTES:

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

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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	5	40577	American Mun Power-Ohio, Inc	Electric Utility	Cannelton Hydroelectric Plant	KY	57399	CG3	29.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	29.3
2016	5	59359	BHE Renewables, LLC	IPP	Marshall Wind Farm	KS	59084	RPMA	73.8	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	73.8
2016	5	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	4.4
2016	5	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	4.4
2016	5	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	4.4
2016	5	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	4.4
2016	5	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	4.4
2016	5	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK4	33.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	33.2
2016	5	57365	Consolidated Edison Solutions Inc	IPP	Future Generation Wind	MA	59622	FGMA	7.9	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	8.0
2016	5	58468	Dominion Renewable Energy	IPP	Marin Carport	CA	59703	1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2016	5	5701	El Paso Electric Co	Electric Utility	Montana Power Station	TX	58562	GT-3	100.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	131.8
2016	5	5860	Empire District Electric Co	Electric Utility	Riverton	KS	1239	12-2	138.0	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	250.0
2016	5	60158	Flint Hill Solar, LLC	IPP	Flint Hill Solar, LLC	NC	60370	FHSPV	5.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.2
2016	5	6452	Florida Power & Light Co	Electric Utility	Daytona International Speedway Solar	FL	60005	1	0.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.6
2016	5	6452	Florida Power & Light Co	Electric Utility	FIU Solar	FL	60006	1	0.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.6
2016	5	7349	Golden Spread Electric Cooperative, Inc	Electric Utility	Elk Station	TX	58835	ELK2	189.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	202.0
2016	5	7349	Golden Spread Electric Cooperative, Inc	Electric Utility	Elk Station	TX	58835	ELK3	189.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	202.0
2016	5	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	SOLAR	8.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2016	5	59120	Los Vientos Windpower IV, LLC	IPP	Los Vientos Windpower IV	TX	59321	GEN1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2016	5	26253	Louisiana Energy & Power Authority	Electric Utility	LEPA Unit No. 1	LA	58478	LEPA1	59.0	Natural Gas Fired Combined Cycle	NG	CC	(TS) Construction complete, but not yet in commercial operation	64.0
2016	5	60145	NRG Solar Las Vegas MB 2	IPP	NRG Solar Las Vegas MB 2, LLC	NV	60350	LVMB2	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG1	0.6	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.6
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG10	0.6	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.6
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG2	0.6	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.6
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG3	0.6	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.6
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG4	0.6	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.6
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG5	0.6	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.6
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG6	0.6	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.6
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG7	0.6	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.6
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG8	0.6	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.6
2016	5	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG9	0.6	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.6
2016	5	58417	Panda Liberty O&M LLC	IPP	Panda Liberty Generation Plant	PA	58420	GEN1	382.5	Natural Gas Fired Combined Cycle	NG	CC	(TS) Construction complete, but not yet in commercial operation	435.0
2016	5	58417	Panda Liberty O&M LLC	IPP	Panda Liberty Generation Plant	PA	58420	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CC	(TS) Construction complete, but not yet in commercial operation	435.0
2016	5	60068	Red Horse III	IPP	Red Horse III	AZ	60285	RH3	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2016	5	59766	SR Jenkins, LLC	IPP	SR Jenkins Ft Lupton	CO	60023	FTLUP	13.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	13.0
2016	5	58544	Sierra Nevada Brewing Co	Industrial	Sierra Nevada Brewing Co	CA	58585	COGN	1.7	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	2.0
2016	5	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK7	35.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	35.0
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	(TS) Construction complete, but not yet in commercial operation	8.5
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	(TS) Construction complete, but not yet in commercial operation	8.5
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	(TS) Construction complete, but not yet in commercial operation	8.5
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	(TS) Construction complete, but not yet in commercial operation	8.5
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	(TS) Construction complete, but not yet in commercial operation	8.5
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	(TS) Construction complete, but not yet in commercial operation	8.5
2016	5	57313	SolarCity Corporation	IPP	Jackson Board of Education-Liberty HS	NJ	60113	PV1	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.2
2016	5	57313	SolarCity Corporation	IPP	Oregon Convention Center	OR	60112	PV1	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2016	5	60117	SunShare	IPP	Jeffco Community Solar Gardens, LLC	CO	60320	SSCO1	1.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.2
2016	5	58661	Sustainable Power Group, LLC	IPP	Central Antelope Dry Ranch C	CA	59963	CADRC	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	5	58661	Sustainable Power Group, LLC	IPP	Leavenworth Greenworks LLC	NY	59276	LEAVG	9.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	9.5
2016	5	59570	TWE Kelford Solar Project, LLC	IPP	Kelford	NC	59796	FLS1	4.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2016	5	60067	Westside Assets LLC	IPP	Westside Solar Power PV1	CA	60275	WSPV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2016	5	20910	Wolverine Power Supply Coop	Electric Utility	Alpine Power Plant	MI	59926	AI1	202.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	226.9
2016	5	20910	Wolverine Power Supply Coop	Electric Utility	Alpine Power Plant	MI	59926	AI2	202.6	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	226.9
2016	6	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	5A	0.8	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.8
2016	6	59050	Algonquin Power Co	IPP	Algonquin SKIC 10 Solar, LLC	CA	60242	SKI10	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	6	772	Archer Daniels Midland Co	Industrial	Archer Daniels Midland Cedar Rapids	IA	10864	GEN7	35.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	38.5
2016	6	14534	City of Pasadena - (CA)	Electric Utility	Glenarm	CA	422	GT5	68.0	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	71.0
2016	6	59429	Comanche LLC	IPP	Comanche Solar	CO	59656	COMCH	120.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	120.0
2016	6	56769	Consolidated Edison Development Inc.	IPP	CED Westfield Solar, LLC	MA	60274	WFMA	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2016	6	57044	Constellation Solar New Jersey, LLC	IPP	NHA at Mansfield NJ	NJ	60378	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	6	58695	Coronal Development Services	IPP	Holdrege Solar Center	NE	59713	HDSC	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2016	6	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
2016	6	6455	Duke Energy Florida, Inc	Electric Utility	Perry Solar Facility	FL	60071	XXXXX	5.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.1
2016	6	59765	Eight Flags Energy LLC	Electric CHP	Eight Flags Energy	FL	60025	01	19.8	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	21.0
2016	6	59745	First Solar Asset Management	IPP	Rancho Seco Solar, LLC	CA	60226	GEN01	10.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.8
2016	6	59939	Floyd Solar, LLC	IPP	Floyd Solar, LLC	NC	60147	FLS1	6.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	6.5
2016	6	59263	Fresh Air Energy XVIII, LLC	IPP	Meadows PV 1	NC	59513	MEAD1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	6	59776	Frontier Solar, LLC	IPP	Frontier Solar LLC	CA	60039	FTRS	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2016	6	57104	Golden Springs Development Company LLC	IPP	Building F	CA	60151	BLDGF	1.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.3
2016	6	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	6	57104	Golden Springs Development Company LLC	IPP	Freeway Springs	CA	60183	FSPRI	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	6	9273	Indianapolis Power & Light Co	Electric Utility	Harding Street	IN	990	BAT1	20.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	20.0
2016	6	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	6	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	6	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	6	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	6	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	6	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	6	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	6	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	6	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	6	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	6	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	6	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	6	59441	Innovative Solar 46, LLC	IPP	Innovative Solar 46	NC	59671	IS046	78.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	78.5
2016	6	59897	LKL Goldfinch, LLC	IPP	Goldfinch	FL	60124	GFNCH	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2016	6	11208	Los Angeles Department of Water & Power	Electric Utility	Maclay Solar Project	CA	57308	1	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2016	6	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	4	214.4	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	216.9
2016	6	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	5	107.2	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	118.9
2016	6	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	6	105.8	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	106.9
2016	6	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	7	105.8	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	106.9
2016	6	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK3	39.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	39.6
2016	6	12397	Metropolitan Water District of S CA	Electric Utility	Weymouth Solar Plant	CA	60255	1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	6	12397	Metropolitan Water District of S CA	Electric Utility	Weymouth Solar Plant	CA	60255	2	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2016	6	56990	NJR Clean Energy Ventures Corporation	IPP	East Amwell	NJ	60327	AMWEL	1.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.8
2016	6	56990	NJR Clean Energy Ventures Corporation	IPP	Sharon Station	NJ	60267	SHRN1	2.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.7
2016	6	59893	Northern Water Hydropower Enterprise	Commercial	Granby Hydro	CO	60119	GEN1	1.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	1.2
2016	6	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	6	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	6	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	6	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	6	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	6	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	6	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN1	382.5	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	435.0
2016	6	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CS	(V) Under construction, more than 50 percent complete	435.0
2016	6	16179	Rochelle Municipal Utilities	Electric Utility	South Main Street	IL	961	16	1.8	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	1.8
2016	6	16179	Rochelle Municipal Utilities	Electric Utility	South Main Street	IL	961	17	1.8	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	1.8
2016	6	16179	Rochelle Municipal Utilities	Electric Utility	South Main Street	IL	961	18	1.8	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	1.8
2016	6	59404	Seaboard Solar LLC	IPP	Seaboard Solar LLC	NC	59643	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	6	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK8	16.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.2
2016	6	57313	SolarCity Corporation	IPP	Hewlett-Packard (HP) - Andover, MA	MA	60099	PV1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2016	6	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	6	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	6	59837	South Plains Wind Energy II, LLC	IPP	South Plains II	TX	60087	SPII	300.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	300.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG01	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG02	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG03	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG04	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG05	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG06	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG07	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG08	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG09	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG10	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG11	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG12	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2016	6	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2016	6	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.8
2016	6	58661	Sustainable Power Group, LLC	IPP	SEPV Mojave West	CA	59740	SPVMW	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2016	6	58661	Sustainable Power Group, LLC	IPP	Summer Solar LLC	CA	60280	SUMSL	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	6	18642	Tennessee Valley Authority	Electric Utility	Watts Bar Nuclear Plant	TN	7722	2	1,122.0	Nuclear	NUC	ST	(V) Under construction, more than 50 percent complete	1,269.9
2016	6	59598	Tooele Army Depot	IPP	Tooele Wind Turbine	UT	59817	GEN03	1.7	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.7
2016	6	59116	WED Coventry Five, LLC	IPP	WED Coventry 5	RI	59313	COV5	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59108	WED Coventry Four, LLC	IPP	WED Coventry 4	RI	59306	WEDC4	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59105	WED Coventry One, LLC	IPP	WED Coventry 1	RI	59301	WEDC1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6A	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6B	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59107	WED Coventry Three, LLC	IPP	WED Coventry 3	RI	59305	WEDC3	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2A	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2B	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-1	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-2	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-3	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-4	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-5	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-6	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-7	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-8	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-9	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV10	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-1	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-2	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	6	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-3	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	7	59050	Algonquin Power Co	IPP	Odell Wind Farm	MN	58657	1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2016	7	59474	BQ Energy LLC	IPP	Steel Sun	NY	59705	SSUN2	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	7	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK5	33.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	33.9
2016	7	60136	Boulder Solar Power, LLC	IPP	Boulder Solar Power, LLC	NV	60352	BSP	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2016	7	59595	Copper Mountain Solar 4, LLC	IPP	Copper Mountain Solar 4, LLC	NV	59814	PV01	51.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	51.8
2016	7	58695	Coronal Development Services	IPP	Mariposa Solar Center LLC	NC	59162	MSC 1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	7	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	7	59997	Customized Energy Solutions	IPP	ESS Lewes	DE	60216	ESSLS	8.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	8.0
2016	7	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	7	58468	Dominion Renewable Energy	IPP	Enterprise Solar, LLC	UT	59386	ENTS1	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2016	7	56215	E ON Climate Renewables N America LLC	IPP	Colbec's Corner, LLC	TX	59068	GVII	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2016	7	59258	Five Points Solar Park, LLC	IPP	Five Points Solar Park	CA	59523	FRFSP	60.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	60.0
2016	7	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	7	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	7	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	7	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	7	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	7	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	7	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	7	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	7	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Washington Solar Park	IN	60252	SWASH	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2016	7	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Greenwood (MO)	MO	6074	5	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2016	7	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF	22.5	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	22.5
2016	7	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF	24.1	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	24.1
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J16	0.9	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	0.9
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U4J16	1.2	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.4
2016	7	56990	NJR Clean Energy Ventures Corporation	IPP	Cedar Branch	NJ	60266	CEDAR	5.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.9
2016	7	56990	NJR Clean Energy Ventures Corporation	IPP	Junction Road	NJ	60265	JUNCT	4.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.4
2016	7	13511	New York State Elec & Gas Corp	Electric Utility	Harris Lake	NY	2528	2	2.3	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	2.5
2016	7	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	7	58589	Orbit Energy Charlotte	IPP	Orbit Energy Charlotte	NC	58638	1	5.2	Other Waste Biomass	OBG	IC	(V) Under construction, more than 50 percent complete	5.2
2016	7	15248	Portland General Electric Co	Electric Utility	Carty Generating Station	OR	58503	GEN1	300.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	300.0
2016	7	15248	Portland General Electric Co	Electric Utility	Carty Generating Station	OR	58503	GEN2	200.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	200.0
2016	7	40307	Prairie Power, Inc	Electric Utility	Alsey	IL	7818	6	42.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	48.0
2016	7	58593	Sequoia PV 1 LLC	IPP	Nicolis Solar PV Plant	CA	59600	GEN1	19.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	7	58593	Sequoia PV 1 LLC	IPP	Tropico Solar PV Plant	CA	59599	GEN1	13.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	14.0
2016	7	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	7	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	7	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	7	17650	Southern Power Co	IPP	Stateline Solar	CA	58646	STL7	37.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	37.9
2016	7	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
2016	7	58661	Sustainable Power Group, LLC	IPP	Elevation Solar C	CA	59964	ELVSC	40.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	40.0
2016	7	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 1	CA	59315	BEAC1	56.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	56.0
2016	7	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 3	CA	59316	BEAC3	56.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	56.0
2016	7	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 4	CA	59317	BEAC4	50.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.0
2016	7	59963	TWE New Bern Solar Project, LLC	IPP	TWE New Bern Solar Project, LLC	NC	60191	FLS1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2016	7	19876	Virginia Electric & Power Co	Electric Utility	Merck	VA	59905	1	2.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.1
2016	7	59831	White Oak Solar, LLC	IPP	White Oak Solar, LLC	GA	60082	WHTOK	76.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	76.5
2016	7	59803	White Pine Solar, LLC	IPP	White Pine Solar, LLC	GA	60064	WHTPN	101.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	101.2
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (WI)	WI	59836	11	4.6	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	4.6
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (WI)	WI	59836	12	4.6	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	4.6
2016	8	57369	Apple, Inc	Industrial	Apple Campus 2 Fuel Cell	CA	59557	AC2FC	4.0	Other Waste Biomass	OBG	FC	(U) Under construction, less than or equal to 50 percent complete	4.0
2016	8	59861	Benson Creek	IPP	Benson Creek Windfarm	OR	59491	BCW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	8	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK6	32.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	32.0
2016	8	59903	Candace Solar LLC	IPP	Candace Solar	NC	59499	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	8	17845	City of Springville - (UT)	Electric Utility	Whitehead	UT	7028	K6CAT	2.5	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	2.5
2016	8	17845	City of Springville - (UT)	Electric Utility	Whitehead	UT	7028	K7CAT	2.5	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	2.5
2016	8	59938	Cohen Farm Solar, LLC	IPP	Cohen Farm Solar, LLC	NC	60146	FLS1	6.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	6.5
2016	8	56769	Consolidated Edison Development Inc.	IPP	OCI Alamo 7 LLC	TX	59207	OCIA7	100.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	100.0
2016	8	59595	Copper Mountain Solar 4, LLC	IPP	Copper Mountain Solar 4, LLC	NV	59814	PV02	41.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	41.8
2016	8	4329	Copper Valley Elec Assn, Inc	Electric Utility	Allison Creek Hydro	AK	58982	GEN1	6.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.5
2016	8	58468	Dominion Renewable Energy	IPP	Escalante Solar III, LLC	UT	59389	ESCS3	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2016	8	58468	Dominion Renewable Energy	IPP	Granite Mountain Solar East	UT	59946	GMSE	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2016	8	58468	Dominion Renewable Energy	IPP	Granite Mountain Solar West	UT	59945	GMSW	51.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	51.3
2016	8	58468	Dominion Renewable Energy	IPP	Iron Springs Solar	UT	59941	ISS	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2016	8	59862	Durbin Creek	IPP	Durbin Creek Windfarm	OR	59492	DCW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	8	59481	Franklinton Solar LLC	IPP	Franklinton Solar	NC	59708	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	8	59998	Frontier Windpower, LLC	IPP	Frontier Windpower	OK	60218	FC1	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2016	8	59462	Heelstone Energy Holdings, LLC	IPP	Cornwall Solar Center, LLC	NC	59663	CSC1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	8	9324	Indiana Michigan Power Co	Electric Utility	OlivePV	IN	59854	OLPV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	8	9324	Indiana Michigan Power Co	Electric Utility	Twin Branch PV	IN	59861	TBPV1	2.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.6

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	8	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Huntingburg Solar Park	IN	60251	SHUNT	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	8	59860	Jett Creek	IPP	Jett Creek Windfarm	OR	59490	JCW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	8	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF2	56.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	56.2
2016	8	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF2	48.1	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	48.1
2016	8	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	8	59863	Prospector	IPP	Prospector Windfarm	OR	59493	PW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	8	59728	RE Astoria 2 LLC	IPP	RE Astoria 2	CA	59977	ASTR2	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2016	8	59727	RE Astoria LLC	IPP	RE Astoria	CA	59976	ASTR1	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2016	8	57313	SolarCity Corporation	IPP	BJ's Wholesale Club, Inc- Uxbridge	MA	60116	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	8	57313	SolarCity Corporation	IPP	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	8	57313	SolarCity Corporation	IPP	Onondaga County- Jamesville	NY	60232	PV1	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2016	8	57313	SolarCity Corporation	IPP	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	8	59773	SunE Solar XVI Lessor, LLC	IPP	SunE Rochester	CA	60032	RCHTR	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	8	58658	Sunlight Partners	IPP	Beetle Solar	NC	59511	PV1	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2016	8	58658	Sunlight Partners	IPP	Carol Jean Solar	NC	59017	GEN 1	4.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.0
2016	8	58658	Sunlight Partners	IPP	Husky Solar	NC	59510	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	8	58661	Sustainable Power Group, LLC	IPP	Antelope Big Sky Ranch	CA	60279	ABSR	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	8	56694	Thermo No 1 BE 01 LLC	IPP	Thermo Solar PV-01	UT	59883	SOLAR	2.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.9
2016	8	59864	Willow Spring	IPP	Willow Spring Windfarm	OR	59494	WSW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	9	59616	63SU 8me, LLC	IPP	Springbok Solar Farm 2	CA	59840	SB2	155.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	155.0
2016	9	11268	City of Lowell - (MI)	Electric Utility	Chatham	MI	58254	CT02R	3.2	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	3.6
2016	9	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 4	CA	60081	DU4CA	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	9	4254	Consumers Energy Co	Electric Utility	Western Michigan Solar Gardens	MI	60117	1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2016	9	58695	Coronal Development Services	IPP	County Home Solar Center, LLC	NC	60199	CHSC1	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2016	9	58695	Coronal Development Services	IPP	Grove Solar Center, LLC	OR	60330	GSC1	6.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.0
2016	9	58695	Coronal Development Services	IPP	Open Range Solar Center, LLC	OR	60332	ORSC1	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2016	9	58468	Dominion Renewable Energy	IPP	Escalante Solar I, LLC	UT	59387	ESCS1	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2016	9	58468	Dominion Renewable Energy	IPP	Escalante Solar II, LLC	UT	59388	ESCS2	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2016	9	59745	First Solar Asset Management	IPP	Moapa Southern Paiute	NV	57859	1	250.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	250.0
2016	9	56625	Flat Water Wind Farm LLC	IPP	Flat Water Wind Farm LLC	NE	57283	WTG2	10.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	10.5
2016	9	7140	Georgia Power Co	Electric Utility	Fort Gordon Solar Facility	GA	59863	1	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2016	9	7140	Georgia Power Co	Electric Utility	Fort Stewart Solar Facility	GA	59865	1	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2016	9	59806	Grand View PV Solar Two, LLC	IPP	Grand View Solar Two	ID	60068	GVS2	60.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	60.0
2016	9	59806	Grand View PV Solar Two, LLC	IPP	Grand View Solar Two	ID	60068	GVS5	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	9	60129	Horse Creek Wind, LLC	IPP	Horse Creek Wind Farm	TX	60339	HCWF	230.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.0
2016	9	9216	Imperial Irrigation District	Electric Utility	El Centro	CA	389	BESS	28.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	30.0
2016	9	59680	Lillington Solar LLC	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	9	59802	Live Oak Solar, LLC	IPP	Live Oak Solar, LLC	GA	60063	LVEOK	51.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	51.0
2016	9	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF3	56.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	56.2
2016	9	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF3	48.1	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	48.1
2016	9	59600	Mohave Sunrise Solar I, LLC	IPP	Mohave Electric at Fort Mohave	AZ	59819	PV2	11.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	11.8
2016	9	9436	Mosaic Phosphates Co.	Industrial	Mosaic Phosphates Uncle Sam	LA	10198	GEN3	15.0	All Other	OTH	ST	(V) Under construction, more than 50 percent complete	15.0
2016	9	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 4	0.6	Conventional Steam Coal	BIT	ST	(U) Under construction, less than or equal to 50 percent complete	2.9
2016	9	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 5	0.6	Conventional Steam Coal	BIT	ST	(U) Under construction, less than or equal to 50 percent complete	2.2
2016	9	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG1	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	107.0
2016	9	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG2	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	107.0
2016	9	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG3	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	107.0
2016	9	59682	Pollocksville Solar LLC	IPP	Pollocksville Solar	NC	59917	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	9	58968	RE Mustang LLC	IPP	RE Mustang LLC	CA	59150	PV1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2016	9	59790	River Bend Solar, LLC	IPP	River Bend Solar, LLC	AL	60058	RVRBN	75.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	75.0
2016	9	59662	Riverside Fuel Cell, LLC	Commercial	Riverside RWQCP Fuel Cell	CA	59877	MB20	1.4	Other Waste Biomass	OBG	FC	(U) Under construction, less than or equal to 50 percent complete	1.4
2016	9	60060	SR Mavericks, LLC	IPP	SR Mavericks	CO	60283	MVRKS	6.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.5
2016	9	57313	SolarCity Corporation	IPP	AVS Lancaster 1	CA	60085	PV1	3.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.7
2016	9	57313	SolarCity Corporation	IPP	Connecticut Municipal Electric Energy Co	CT	60225	PV1	2.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.5
2016	9	57313	SolarCity Corporation	IPP	Connecticut Municipal Electric Energy Co	CT	60228	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	9	59605	South Louisburg Solar LLC	IPP	South Louisburg Solar	NC	59825	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	9	60045	Stainback Solar Farm, LLC	IPP	Stainback Solar Farm	NC	60257	INV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	9	59138	SunPower Corporation, Systems	IPP	Rio Bravo Solar 1 LLC	CA	59249	PV1	19.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	9	59138	SunPower Corporation, Systems	IPP	Wildwood Solar II	CA	59253	PV1	14.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	15.0
2016	9	59840	Wallace Solar 2 LLC	IPP	Wallace Solar 2	NC	60090	2MWPV	1.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.9
2016	9	59731	Windham Solar LLC	IPP	Lebanon Solar 1	CT	59991	LEB1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	9	59731	Windham Solar LLC	IPP	Lebanon Solar 2	CT	59992	LEB2	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	9	60142	Wortham Solar Farm, LLC	IPP	Wortham Solar Farm	NC	60361	INV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	10	59273	62SK 8me, LLC	IPP	Springbok Solar Farm 1	CA	59532	SB1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2016	10	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG1	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2016	10	58680	Ayrshire Holdings, LLC	IPP	Ayrshire	NC	58792	PV1	19.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	19.4
2016	10	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	04	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	60.5
2016	10	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	05	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	60.5
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	11	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	12	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	13	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	14	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	15	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	16	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	17	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	18	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	19	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	20	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	21	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	22	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	10	57421	BayWa r.e Wind LLC	IPP	Chopin Wind LLC	OR	59076	WT1	10.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	10.0
2016	10	60143	Bison Solar LLC	IPP	Bison Solar LLC	CO	60351	BSPV1	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2016	10	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK7	32.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	32.1
2016	10	60148	Brady Wind, LLC	IPP	Brady Wind Energy Center	ND	60355	BWEC1	150.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	150.0
2016	10	58871	Citizens Enterprises Corporation	IPP	Hunt Road Solar	MA	59927	PV1	4.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.5
2016	10	60094	Clinton Battery Utility, LLC	IPP	Clinton Battery	OH	60297	1	10.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	10.0
2016	10	58695	Coronal Development Services	IPP	Hyline Solar Center, LLC	OR	60331	HSC1	9.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	9.0
2016	10	58695	Coronal Development Services	IPP	Vale Air Solar Center, LLC	OR	60335	VASC1	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2016	10	58468	Dominion Renewable Energy	IPP	Eastern Shore Solar, LLC	VA	60127	PV1	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2016	10	60128	Electra Wind, LLC	IPP	Electra Wind Farm	TX	60338	EWF	230.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.0
2016	10	25438	Friant Power Authority	IPP	Friant Hydro Facility	CA	50393	RO2	9.0	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	6.9
2016	10	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	4TG	62.0	Wood/Wood Waste Biomass	BLQ	ST	(V) Under construction, more than 50 percent complete	75.0
2016	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Elettsville Solar RES	IN	59985	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1
2016	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Henryville Solar RES	IN	59986	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	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	(T) Regulatory approvals received. Not under construction	1.1
2016	10	9324	Indiana Michigan Power Co	Electric Utility	Watervliet PV	MI	59853	WVPV1	4.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.6
2016	10	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Anderson Solar Park	IN	60253	SANDE	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	10	4361	Ingredion Inc - Stockton	Industrial	Ingredion Stockton	CA	52115	GEN2	6.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	7.2
2016	10	49893	Invenergy Services LLC	IPP	Wake Wind Energy Center	TX	58766	1	129.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	129.5
2016	10	49893	Invenergy Services LLC	IPP	Wake Wind Energy Center	TX	58766	2	109.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	109.2
2016	10	49893	Invenergy Services LLC	IPP	Wake Wind Energy Center	TX	58766	3	61.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	61.1
2016	10	59022	Leonardo Wind 1 LLC	IPP	Leonardo Wind 1 LLC	IA	59228	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	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	59026	Michelangelo Wind 1 LLC	IPP	Michelangelo Wind 1 LLC	IA	59231	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	58887	Michelangelo Wind 3 LLC	IPP	Michelangelo Wind 3 LLC	IA	59053	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59027	Michelangelo Wind 4 LLC	IPP	Michelangelo Wind 4 LLC	IA	59232	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF4	56.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	56.2
2016	10	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF4	48.1	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	48.1
2016	10	59025	Optimum Wind 3 LLC	IPP	Optimum Wind 3 LLC	IA	59227	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59024	Optimum Wind 4 LLC	IPP	Optimum Wind 4 LLC	IA	59226	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59017	Optimum Wind 5 LLC	IPP	Optimum Wind 5 LLC	IA	59223	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59018	Optimum Wind 6 LLC	IPP	Optimum Wind 6 LLC	IA	59224	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0

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	59019	Optimum Wind 7 LLC	IPP	Optimum Wind 7 LLC	IA	59225	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	58838	Parrey, LLC	IPP	Henrietta Solar Project	CA	58975	PV1	102.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	102.0
2016	10	17650	Southern Power Co	IPP	Butler Solar Project 103	GA	59896	1	103.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	103.0
2016	10	17650	Southern Power Co	IPP	RE Roserock	TX	59994	ROSEK	160.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	160.0
2016	10	17650	Southern Power Co	IPP	RE Tranquility	CA	59939	TQ	205.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	205.3
2016	10	58661	Sustainable Power Group, LLC	IPP	Antelope DSR 2	CA	60187	DSR2	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	10	58661	Sustainable Power Group, LLC	IPP	Western Antelope Dry Ranch	CA	58627	WADR	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2016	10	59826	Syncarpha Bondsville, LLC	IPP	Palmer Landfill	MA	60076	SYNPL	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2016	10	59021	Venus Wind 3 LLC	IPP	Venus Wind 3 LLC	IA	59230	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	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
2016	10	60154	White Street Renewables LLC	IPP	White Street Renewables	NC	60364	WSPV	3.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	3.4
2016	11	60019	96WI 8ME, LLC	IPP	Midway Solar Farm II	CA	60237	MSF2	30.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	30.0
2016	11	55918	Acciona Wind Energy USA LLC	IPP	San Roman Wind I, LLC	TX	59712	SRWI	95.3	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	95.3
2016	11	213	Alaska Electric Light&Power Co	Electric Utility	Industrial Plant	AK	59793	15	25.0	Petroleum Liquids	DFO	GT	(U) Under construction, less than or equal to 50 percent complete	25.0
2016	11	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG2	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2016	11	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG3	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2016	11	59520	BWC Origination 5, LLC	IPP	BlueWave Capital-Mattapoisett (SREC II)	MA	59753	1	4.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.5
2016	11	60044	Bluestem Wind Energy, LLC	IPP	Bluestem	OK	60256	1	198.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	198.0
2016	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	59007	Clipperton Holdings LLC	IPP	Clipperton Holdings	NC	59213	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB001	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2016	11	60167	Concord Blue Eagar, LLC	IPP	Concord Blue Eagar, LLC	AZ	60374	CB002	0.6	Other Waste Biomass	OBG	IC	(L) Regulatory approvals pending. Not under construction	0.6
2016	11	58695	Coronal Development Services	IPP	Freemont Solar Center LLC	NC	59912	FREE	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	11	58695	Coronal Development Services	IPP	Railroad Solar Center, LLC	OR	60333	RSC1	4.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.5
2016	11	58695	Coronal Development Services	IPP	Thunderegg Solar Center, LLC	OR	60334	TSC1	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2016	11	59979	Cotton Plains Wind I, LLC	IPP	Cotton Plains Wind Farm	TX	60210	CPWF	50.4	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.4
2016	11	57406	Deepwater Wind Block Island LLC	IPP	Block Island Wind Farm	RI	58035	BIWF	29.3	Offshore Wind Turbine	WND	WS	(V) Under construction, more than 50 percent complete	30.0
2016	11	58970	Ecoplexus, Inc	IPP	Turkey Creek PV1	NC	60000	TRKCK	13.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	13.5
2016	11	6452	Florida Power & Light Co	Electric Utility	Babcock Solar Energy Center	FL	59993	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	74.5
2016	11	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP1	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5
2016	11	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP2	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5
2016	11	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP3	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5
2016	11	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP4	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5
2016	11	59941	Innovative Solar 43, LLC	IPP	Innovative Solar 43, LLC	NC	60149	FLS1	50.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	50.8
2016	11	59446	Innovative Solar 55, LLC	IPP	Innovative Solar 55	NC	59676	IS044	6.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	6.5
2016	11	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF5	56.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	56.2
2016	11	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF5	48.1	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	48.1
2016	11	56990	NJR Clean Energy Ventures Corporation	IPP	Ringer Hill Wind Farm, LLC	PA	60329	RINGR	39.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	39.9
2016	11	59634	North Star Solar PV LLC	IPP	North Star Solar Project	MN	59852	NSSP1	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2016	11	13781	Northern States Power Co - Minnesota	Electric Utility	Wheaton Solar	WI	60203	1	3.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.8
2016	11	60155	Old Settler Wind, LLC	IPP	Old Settler Wind	TX	60366	OSWF	151.2	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	151.2
2016	11	17470	PUD 1 of Snohomish County	Electric Utility	MESA 2	WA	60021	MESA2	2.4	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	2.4
2016	11	60097	San Isabel Solar, LLC	IPP	San Isabel Solar, LLC	CO	60304	SISPV	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2016	11	60177	Solar Star Arizona XIII, LLC	IPP	Sulphur Springs	AZ	60381	SSSP	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	11	58658	Sunlight Partners	IPP	Alexis Solar	NC	60139	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Anna Solar	NC	60176	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Blue Bird Solar	NC	60177	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2016	11	58658	Sunlight Partners	IPP	Bonnie Solar	NC	60175	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Brooke Solar	NC	60140	PV1	4.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.5
2016	11	58658	Sunlight Partners	IPP	Carter Solar	NC	60167	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Cash Solar	NC	60178	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Christina Solar	NC	60172	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2016	11	58658	Sunlight Partners	IPP	Daystar Solar	NC	60179	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Grove Solar	NC	60181	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Hawk Solar	NC	60163	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Iga Solar	NC	60170	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	June Solar	NC	60158	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2016	11	58658	Sunlight Partners	IPP	Roman Solar	NC	60159	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Sadie Solar	NC	60168	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Signature Solar	NC	60155	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	11	58658	Sunlight Partners	IPP	Tate Solar	NC	60160	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	58661	Sustainable Power Group, LLC	IPP	Antelope DSR 1	CA	60186	DSR1	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2016	11	58661	Sustainable Power Group, LLC	IPP	Pioneer Wind Park, LLC	WY	60259	PWP1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2016	11	58661	Sustainable Power Group, LLC	IPP	Solverde 1	CA	60185	SOLV1	85.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	85.0
2016	11	58661	Sustainable Power Group, LLC	IPP	Western Antelope Blue Sky B	CA	59961	WABSB	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	11	18454	Tampa Electric Co	Electric Utility	Legoland Solar	FL	60371	1	1.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.5
2016	11	59011	Tiburon Holdings	IPP	Tiburon Holdings	NC	59217	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	11	24211	Tucson Electric Power Co	Electric Utility	Fort Huachuca Solar PV Project	AZ	58972	FHUA2	4.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.1
2016	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	(T) Regulatory approvals received. Not under construction	5.0
2016	12	59758	American Falls Solar II, LLC	IPP	American Falls Solar II	ID	60012	IPAF2	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	59757	American Falls Solar LLC	IPP	American Falls Solar	ID	60011	IPAF	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	59725	Ariel Solar, LLC	IPP	Bloomsbury Solar, LLC	NC	59970	BLOOM	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	12	59359	BHE Renewables, LLC	IPP	Grande Prairie Wind Farm	NE	58695	1	400.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	400.0
2016	12	59474	BQ Energy LLC	IPP	Kings Park Solar I	NY	59880	KIPS1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2016	12	59474	BQ Energy LLC	IPP	Kings Park Solar II	NY	59881	KIPS2	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
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	60149	Brady Wind II, LLC	IPP	Brady II Wind Energy Center	ND	60354	BWEC2	150.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	150.0
2016	12	59006	Calypso Farm LLC	IPP	Calypso Farm	NC	59212	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	59991	Caprock Solar 1, LLC	IPP	Caprock Solar 1 LLC	NM	59251	PV1	24.4	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	25.0
2016	12	58998	Chapman Ranch Wind LLC	IPP	Chapman Ranch Wind I	TX	59193	CHA1	236.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	236.0
2016	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP1	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP2	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP3	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP4	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	56769	Consolidated Edison Development Inc.	IPP	Blackwell Solar Park	CA	59524	FRBSP	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Avenal	CA	60077	AVCA	15.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	15.8
2016	12	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 1	CA	60078	DU1CA	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	15.0
2016	12	56769	Consolidated Edison Development Inc.	IPP	Oro Loma	CA	59915	ORCA	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	59319	Cotton Solar, LLC	IPP	Cotton Solar	SC	59572	PV1	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2016	12	59464	Current Energy Group	IPP	Hickory	NC	59829	5515	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	12	59997	Customized Energy Solutions	IPP	NA 1(Hagerstown)	MD	60213	MPSHG	2.0	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.0
2016	12	5109	DTE Electric Company	Electric Utility	Echo Wind Park	MI	58121	GEN3	50.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.0
2016	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	65.0
2016	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STB	40.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	65.0
2016	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Mocksville Solar Facility	NC	60382	MSFPV	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2016	12	5416	Duke Energy Carolinas, LLC	Electric Utility	Monroe Solar Facility	NC	60383	MONPV	59.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	59.4
2016	12	58970	Ecoplexus, Inc	IPP	American Legion PV 1	NC	59516	AMLEG	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
2016	12	58970	Ecoplexus, Inc	IPP	Baker PV 1	NC	59517	BAKE1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	12	58970	Ecoplexus, Inc	IPP	Benthall Bridge PV 1	NC	59515	BENT1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2016	12	58970	Ecoplexus, Inc	IPP	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	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
2016	12	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	16.0
2016	12	58970	Ecoplexus, Inc	IPP	Manning PV 1	NC	59520	MANN	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58970	Ecoplexus, Inc	IPP	Round Hill PV1	NC	59998	RNDHL	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58970	Ecoplexus, Inc	IPP	Vaughn Creek PV1	NC	60001	VNCRK	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0

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	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	5701	El Paso Electric Co	Electric Utility	Montana Solar Facility	TX	60300	IMPV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2016	12	58720	Enbridge	IPP	New Creek Wind	WV	60132	NCG01	103.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	103.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	Apple Blossom Wind Farm	MI	58690	APLB1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	Courtenay Wind Farm	ND	58658	1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	Drift Sand Wind Project LLC	OK	59065	WT1	109.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	109.8
2016	12	59380	Enel Green Power NA, Inc.	IPP	Lindahl Wind Project, LLC	ND	59684	LWP01	150.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	150.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	Mustang Run Wind Project LLC	OK	59000	MRWP	136.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	136.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	South Fork Wind Farm	MN	58691	STFK1	13.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	13.0
2016	12	31719	FPL Energy Wyman LLC	IPP	William F Wyman	ME	1507	BESS	16.2	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	16.7
2016	12	56615	First Solar Project Development	IPP	Portal Ridge Solar C, LLC	CA	60311	GEN01	11.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	11.4
2016	12	59155	First Wind O&M, LLC	IPP	Bingham Wind	ME	57531	1	186.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	186.0
2016	12	59155	First Wind O&M, LLC	IPP	Hancock Wind Plant	ME	58686	HANC1	51.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	51.0
2016	12	6452	Florida Power & Light Co	Electric Utility	Manatee Solar Energy Center	FL	60014	1	74.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	74.5
2016	12	58880	Gallegos Wind Farm LLC	IPP	Gallegos Wind Farm, Phase 1	NM	59047	GEN 1	180.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	180.0
2016	12	59002	Garland Farm LLC	IPP	Garland Farm	NC	59209	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	7140	Georgia Power Co	Electric Utility	King's Bay Solar Facility	GA	59864	1	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2016	12	7140	Georgia Power Co	Electric Utility	Marine Corps Logistics Base Solar Facility	GA	59876	1	46.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	46.0
2016	12	59257	Giffen Solar Park, LLC	IPP	Giffen Solar Park	CA	59522	FRGSP	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	12	59633	Great Bay Solar I LLC	IPP	Great Bay Solar 1	MD	59851	GBS01	57.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2016	12	56946	Hidalgo Wind Farm LLC	IPP	Hidalgo Wind Farm LLC	TX	57617	GEN1	250.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	250.0
2016	12	60095	High Pockets Solar, LLC	IPP	High Pockets Solar	NC	60305	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2016	12	60164	ILR Landfill	IPP	ILR Landfill	NJ	60375	ILR1	7.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	7.7
2016	12	15399	Iberdrola Renewables Inc	IPP	El Cabo Wind	NM	58098	1	298.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	298.0
2016	12	15399	Iberdrola Renewables Inc	IPP	Tule Wind LLC	CA	57913	1	143.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	143.0
2016	12	59436	Innovative Solar 47, LLC	IPP	Innovative Solar 47	NC	59666	IS047	33.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	33.8
2016	12	55910	Lanai Sustainability Research LLC	IPP	Miilani South Solar Farm	HI	57242	1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	12	59669	Louisburg Solar LLC	IPP	Louisburg Solar	NC	59895	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	60098	MS Solar 2, LLC	IPP	Sumrall I Solar Farm	MS	60306	SUM1	52.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	52.0
2016	12	11664	Mark Technologies Corp	IPP	Alta Mesa Project Phase IV	CA	55352	GEN1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2016	12	59973	Marshall Solar Energy Project	IPP	Marshall Solar Energy Project	MN	59875	PV1	62.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	62.3
2016	12	59761	McLean Homestead, LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2016	12	60106	Mesquite Solar 2, LLC	IPP	Mesquite Solar 2, LLC	AZ	60307	1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2016	12	60107	Mesquite Solar 3, LLC	IPP	Mesquite Solar 3, LLC	AZ	60308	1	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2016	12	59483	Metropolitan Airports Commission	IPP	St. Paul Intl Airport Red & Blue Parking	MN	59709	PV2	0.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	0.9
2016	12	60035	Michigan Wind 3, LLC	IPP	Michigan Wind 3	MI	60246	1	152.8	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	152.8
2016	12	12341	MidAmerican Energy Co	Electric Utility	Ida Grove Wind	IA	60342	IGWF6	53.9	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	53.9
2016	12	12341	MidAmerican Energy Co	Electric Utility	O'Brien Wind	IA	60326	OBWF6	33.7	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	33.7
2016	12	59469	Mt. Home Solar 1, LLC	IPP	Mountain Home Solar	ID	59695	MHPV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	59755	Murphy Flat Power, LLC	IPP	Murphy Flat Solar	ID	60009	IPMF	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	59099	New Dimension Energy Company, LLC	IPP	Westwind Trust	CA	54258	WTGS	15.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.6
2016	12	13781	Northern States Power Co - Minnesota	Electric Utility	Courtney Wind Farm	ND	60204	CWF01	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2016	12	58477	OZenergies, Inc.	IPP	Five Forks Solar	NC	59951	5FRK	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	12	59756	Orchard Ranch Solar, LLC	IPP	Orchard Ranch Solar	ID	60010	IPOR	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	60125	Providence Solar Center, LLC	IPP	Providence Solar	TN	60337	PROV	16.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.0
2016	12	59010	Rhubarb One LLC	IPP	Rhubarb One SC	SC	59596	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	60182	SRJFC, LLC	Electric CHP	Santa Rita Jail Fuel Cell	CA	60385	MB-18	1.4	Other Natural Gas	NG	FC	(T) Regulatory approvals received. Not under construction	1.4
2016	12	59109	SUNE BEACON SITE 2, LLC	IPP	Beacon Solar Plant Site 2	CA	59309	BEAC2	48.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	48.0
2016	12	59110	SUNE BEACON SITE 5, LLC	IPP	Beacon Solar Plant Site 5	CA	59308	BEAC5	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2016	12	60178	Shoe Creek Solar, LLC	IPP	Shoe Creek Solar, LLC	NC	60380	SCSPV	5.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.2
2016	12	59779	Shoreham Solar Commons	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	24.9
2016	12	59770	Shorthorn Holdings, LLC	IPP	Shorthorn Holdings	SC	60028	PV1	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2016	12	59681	Smithfield Solar LLC	IPP	Smithfield Solar LLC	NC	59920	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58704	Sonne Two LLC	IPP	Sonne Two	NC	58829	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	17650	Southern Power Co	IPP	RE Garland	CA	60233	PV2	185.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	185.0
2016	12	17650	Southern Power Co	IPP	Taylor County Solar	GA	59897	1	148.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	148.0
2016	12	59318	Soy Solar LLC	IPP	Soy Solar	NC	59571	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	59138	SunPower Corporation, Systems	IPP	Aragonne Solar LLC	NM	59252	PV1	38.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
2016	12	59138	SunPower Corporation, Systems	IPP	Rio Bravo Solar II LLC	CA	59250	PV1	19.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	12	59839	Sunflower Wind Project	IPP	Sunflower Wind Project	ND	60088	SNFLR	104.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	104.0
2016	12	58658	Sunlight Partners	IPP	Cardinal Solar	NC	60174	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Clayton Solar	NC	60171	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Eagle Solar	NC	60161	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2016	12	58658	Sunlight Partners	IPP	Heedeh Solar	NC	60157	PV1	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2016	12	58658	Sunlight Partners	IPP	Higgins Solar	NC	60166	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Icarus Solar	NC	60169	PV1	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2016	12	58658	Sunlight Partners	IPP	Jordan Solar	NC	60164	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Kathleen Solar	NC	60180	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Longleaf Solar	NC	60173	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Robin Solar	NC	60165	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Shelter Solar	NC	60156	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58658	Sunlight Partners	IPP	Wilfork Solar	NC	60162	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58661	Sustainable Power Group, LLC	IPP	North Lancaster Ranch	CA	59962	NLR	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	58661	Sustainable Power Group, LLC	IPP	North Lancaster Ranch Solar LLC	CA	60282	NLR	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	60046	TPE Alta Luna, LLC	IPP	Alta Luna	NM	60258	ALPV1	28.1	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	28.1
2016	12	59317	Toprak LLC	IPP	Toprak	NC	59570	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	60071	Trinity Solar, LLC	IPP	Trinity Solar	NC	60291	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	12	58153	US Magnesium	Industrial	US Magnesium	UT	58191	GT4	24.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	30.0
2016	12	59896	Upco Power 1, LLC	IPP	Castle Gap Solar	TX	60123	CGAP	117.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	117.3
2016	12	57341	Veolia Energy	Electric CHP	Univ Minnesota CHP Plant	MN	59197	CTG-1	17.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	21.0
2016	12	19876	Virginia Electric & Power Co	Electric Utility	Scott Solar Farm	VA	60316	1	17.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	17.0
2016	12	19876	Virginia Electric & Power Co	Electric Utility	Whitehouse Solar Farm	VA	60319	1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	19876	Virginia Electric & Power Co	Electric Utility	Woodland Solar Farm	VA	60318	1	19.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	19.0
2016	12	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED1	2.0	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED2	2.0	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	60156	White Farm Solar, LLC	IPP	White Farm Solar, LLC	NC	60363	WFSPV	5.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.2
2016	12	59316	Whitetail Solar LLC	IPP	Whitetail Solar	SC	59569	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2016	12	59330	Wommack Farm, LLC	IPP	Wommack Farm	NC	59585	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	1	56146	Black Hills/Colorado Elec.Util	Electric Utility	Peak View Wind Farm	CO	60143	WTG	60.8	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	60.8
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	10	18.7	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.7
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	8	18.7	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.7
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	9	18.7	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.7
2017	1	5109	DTE Electric Company	Electric Utility	Demille Solar Farm	MI	60346	1	28.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	28.4
2017	1	5109	DTE Electric Company	Electric Utility	O'Shea Solar Farm	MI	60348	1	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2017	1	5109	DTE Electric Company	Electric Utility	Turrill Solar Farm	MI	60347	1	19.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	19.6
2017	1	56615	First Solar Project Development	IPP	Portal Ridge Solar B, LLC	CA	60310	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	1	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	1	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE1	478.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	478.0
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	1	59323	Monroe Moore Farm, LLC	IPP	Monroe Moore Farm	NC	59578	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	59338	Spring Valley Farm 2, LLC	IPP	Spring Valley Farm 2, LLC	NC	59593	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	58661	Sustainable Power Group, LLC	IPP	Central Antelope Dry Ranch B LLC	CA	60281	CADRB	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	1	58661	Sustainable Power Group, LLC	IPP	Lancaster WAD B	CA	59739	LWADB	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	18454	Tampa Electric Co	Electric Utility	Polk	FL	7242	2CC	459.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	463.0
2017	1	59328	Tart Farm, LLC	IPP	Tart Farm	NC	59583	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
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	59308	Bearford Farm, LLC	IPP	Bearford Farm Solar Project	NC	59567	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	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

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Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG2	205.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	215.0
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	STGEN	316.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	316.0
2017	2	58695	Coronal Development Services	IPP	Gulf Coast Solar Center I	FL	59689	GCSC1	30.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	30.0
2017	2	58695	Coronal Development Services	IPP	Gulf Coast Solar Center II	FL	59690	GCSC2	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2017	2	58695	Coronal Development Services	IPP	Gulf Coast Solar Center III	FL	59691	GCSC3	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2017	2	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	3	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	3	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	3	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	3	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	3	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	3	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	All Other	OTH	OT	(U) Under construction, less than or equal to 50 percent complete	3.0
2017	3	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	All Other	OTH	OT	(U) Under construction, less than or equal to 50 percent complete	1.3
2017	3	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	All Other	OTH	OT	(U) Under construction, less than or equal to 50 percent complete	1.7
2017	3	5701	El Paso Electric Co	Electric Utility	Holloman Solar Facility	NM	60301	HPV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	59978	HXNAir Solar One LLC	IPP	HXNAir Solar One	NC	60209	HXNAI	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	59977	Hemlock Solar LLC	IPP	Hemlock Solar	NC	60207	HEMLK	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	3	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	3	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	3	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	3	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	3	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy JN, LLC	NM	60145	1	181.7	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	181.7
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy KW, LLC	NM	60152	1	142.6	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	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	60159	RES America Developments Inc	IPP	Lamesa Solar	TX	60372	LSPV1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2017	3	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	3	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH2	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2017	4	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CT8	313.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	360.9
2017	4	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	4	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	4	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	4	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	4	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	4	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3CT	324.6	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	365.5
2017	4	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3ST	191.8	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	204.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN1	230.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	232.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN3	314.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	338.0
2017	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT1	207.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	207.0
2017	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT2	207.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	207.0
2017	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	STG1	230.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	230.0
2017	4	59435	Innovative Solar 37, LLC	IPP	Innovative Solar 37	NC	59665	IS037	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG1	219.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	222.7
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG2	219.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	222.7
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	STG1	224.1	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	260.5
2017	5	5701	El Paso Electric Co	Electric Utility	Montana Power Station	TX	58562	GT-4	100.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	131.8
2017	5	58597	Enivromission, Inc	IPP	La Paz Solar Tower	AZ	58652	1	200.0	Solar Thermal without Energy Storage	SUN	OT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT4	307.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	360.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT5	307.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	360.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	STG6	454.9	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	511.2
2017	5	59745	First Solar Asset Management	IPP	Playa Solar 2	NV	60261	GEN1	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2017	5	59155	First Wind O&M, LLC	IPP	Millani South PV	HI	58281	1	14.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	14.7
2017	5	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN2	230.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	232.0
2017	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	58849	Mariah del Este LLC	IPP	Mariah East	TX	59006	MARN	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2017	5	59342	Maricopa West Solar PV 2, LLC	IPP	Maricopa West Solar 2	CA	59608	MWS2	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	5	12258	Medical Area Total Egy Plt Inc	Commercial	Medical Area Total Energy Plant	MA	10883	CT3	12.8	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	13.8
2017	5	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT1	310.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2017	5	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT2	310.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2017	5	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	ST1	493.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 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	18454	Tampa Electric Co	Electric Utility	Big Bend	FL	645	1	19.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	19.0
2017	5	59764	Waipio PV, LLC	IPP	Waipio Solar	HI	60024	WPO	45.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	45.9
2017	6	60130	Albany Green Energy, LLC	Electric CHP	Albany Green Energy	GA	60340	1	42.0	Natural Gas Steam Turbine	NG	ST	(U) Under construction, less than or equal to 50 percent complete	50.0
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	6	56771	Black Hills Service Company LLC	IPP	Pueblo Airport Generating Station	CO	56998	CT08	37.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	40.0
2017	6	58662	Blue Mountain Power Partners	IPP	Blue Mountain Wind Farm	UT	58764	BM1	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2017	6	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG5	230.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	230.0
2017	6	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG6	230.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	230.0
2017	6	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	STG2	414.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	414.0
2017	6	60096	Calvert Energy LLC	IPP	Pine Valley Solar Farm, LLC	NC	60298	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	6175	City of Falls City - (NE)	Electric Utility	Falls City	NE	2237	9	9.3	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	9.3
2017	6	60075	Climax Solar, LLC	IPP	Climax Solar	NC	60286	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	58695	Coronal Development Services	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2017	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	(U) Under construction, less than or equal to 50 percent complete	360.9
2017	6	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	STG9	461.4	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	508.5
2017	6	59745	First Solar Asset Management	IPP	CA Flats Solar 130, LLC	CA	60033	GEN01	130.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	130.0
2017	6	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor	MA	1626	5	340.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	340.0
2017	6	59928	Footprint Salem Harbor Development LP	IPP	Salem Harbor	MA	1626	6	340.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	340.0
2017	6	58959	Freeport LNG Development L.P	Industrial	Freeport LP Pretreatment Facility	TX	59145	65GTG	77.5	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	97.0
2017	6	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
2017	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
2017	6	9267	Hoosier Energy R E C, Inc	Electric Utility	Cabin Creek Renewable Energy Station	IN	59791	1	1.9	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	2.0
2017	6	9267	Hoosier Energy R E C, Inc	Electric Utility	Cabin Creek Renewable Energy Station	IN	59791	2	1.9	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	2.0
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	59438	Innovative Solar 53, LLC	IPP	Innovative Solar 53	NC	59668	IS053	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2017	6	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	6	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	6	59449	Innovative Solar 68, LLC	IPP	Innovative Solar 68	NC	59679	IS068	48.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	48.3
2017	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
2017	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
2017	6	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG11	256.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	328.0
2017	6	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG12	256.5	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	328.0
2017	6	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	STG10	334.6	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	404.0
2017	6	60070	Organ Church Solar	IPP	Organ Church Solar	NC	60284	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2017	6	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	6	59696	Soluga Farms IV	IPP	Soluga Farms IV	NC	59934	SFIV	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2017	6	60073	St. Matthews Solar, LLC	IPP	St. Matthews Solar	SC	60293	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	6	58960	Timberline Energy LLC	IPP	Front Range Project	CO	59143	FR-2	1.5	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2017	6	60079	Whiteville Solar 2, LLC	IPP	Whiteville Solar 2	NC	60292	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	7	59594	Black Oak Wind Farm LLC	IPP	Black Oak Wind Farm	NY	59813	NA	16.1	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	16.1
2017	7	60078	Bladen Solar Farm, LLC	IPP	Bladen Solar Farm	NC	60296	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	7	59365	Capital Power Corporation	IPP	CP Bloom Wind LLC	KS	59888	GEN	180.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	180.0
2017	7	60179	Duroc Holdings, LLC	IPP	Duroc Holdings	NC	60379	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	7	59362	Jericho Rise Wind Farm LLC	IPP	Jericho Rise Wind Farm LLC	NY	59629	GEN1	77.7	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	77.7
2017	7	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2017	7	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2017	7	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2017	7	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2017	8	60112	97WI 8ME, LLC	IPP	Midway Solar Farm III	CA	60315	MSF3	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	8	60042	Fluvanna Wind Energy LLC	IPP	Fluvanna	TX	59245	FLUV1	152.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	152.0
2017	8	56987	RRE Austin Solar LLC	IPP	Pflugerville Solar Farm	TX	57659	PSF	120.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	120.0
2017	9	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2017	9	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2017	9	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2017	9	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2017	9	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2017	9	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	7.0
2017	9	59745	First Solar Asset Management	IPP	Playa Solar	NV	59827	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2017	9	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	9	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	9	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG1	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG2	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG3	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG4	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	60099	MS Solar 3, LLC	IPP	Sumrall II Solar Farm	MS	60303	SUM2	52.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	52.0
2017	9	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	9	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	2	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	9	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	3	6.8	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	7.0
2017	9	59137	Palmer Renewable Energy	IPP	Palmer Renewable Energy	MA	59336	PRE	42.0	Wood/Wood Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	42.0
2017	9	19876	Virginia Electric & Power Co	Electric Utility	VA Offshore Wind Project (VOWTAP)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	12.0
2017	10	60025	Greenbacker Renewable Energy Corporation	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2017	10	60025	Greenbacker Renewable Energy Corporation	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Decatur Co. Solar RES (IN)	IN	59988	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Jackson Co. Solar RES	IN	59989	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1
2017	10	9267	Hoosier Energy R E C, Inc	Electric Utility	Spring Mill Solar RES	IN	59987	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1
2017	10	58815	KDC Solar RTC LLC	IPP	Delilah Road Landfill	NJ	58951	DRLS	9.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	9.0
2017	10	58850	Mariah del Sur LLC	IPP	Mariah South	TX	59007	MAR S	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2017	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT1	9.7	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT2	9.7	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT3	9.7	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	9.7
2017	10	40580	Southern Minnesota Mun P Agny	Electric Utility	Owatonna Energy Station	MN	60254	UNIT4	9.7	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	9.7
2017	10	59056	Tri Global Energy, LLC	IPP	Changing Winds	TX	59243	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	288.0
2017	10	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2017	10	59056	Tri Global Energy, LLC	IPP	Fiber Winds	TX	59244	FIBE1	80.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	80.0
2017	10	59056	Tri Global Energy, LLC	IPP	Goodnight	TX	59246	GOOD1	500.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	500.0
2017	10	59056	Tri Global Energy, LLC	IPP	Tex-Mex Renewable Energy Project, LLC	TX	60269	WT1	80.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	80.0
2017	10	19876	Virginia Electric & Power Co	Electric Utility	Remington Solar Facility	VA	59685	01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2017	10	57028	West Butte Wind Power LLC	IPP	West Butte Wind Power Project	OR	57704	WB-1	104.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.5
2017	11	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT3	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2017	11	58574	Canton Mountain Wind LLC	IPP	Canton Mountain Wind	ME	58620	1	22.8	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	22.8
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT11	243.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	243.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	CT12	243.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	243.0
2017	11	5416	Duke Energy Carolinas, LLC	Electric Utility	W S Lee	SC	3264	ST10	362.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	362.0
2017	11	57170	EDF Renewable Asset Holdings, Inc.	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	79.9
2017	12	60074	Ajax Solar, LLC	IPP	Ajax Solar	NC	60288	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	219	Alaska Power and Telephone Co	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	219	Alaska Power and Telephone Co	Electric Utility	Reynolds Creek	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	5.0
2017	12	58794	American Wind Energy Management Corp.	IPP	Sangamon Wind One LLC	IL	58925	SAN1	30.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	30.0
2017	12	58794	American Wind Energy Management Corp.	IPP	Sugar Creek Wind One LLC	IL	58924	SUG1	175.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	175.0
2017	12	59714	Antrim Wind Energy LLC	IPP	Antrim Wind	NH	59953	AWND1	28.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	28.8
2017	12	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT4	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2017	12	57003	Arlington Valley Solar Energy LLC	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	127.0
2017	12	59359	BHE Renewables, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	210.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	210.0
2017	12	59365	Capital Power Corporation	IPP	Black Fork Wind Energy Project	OH	59907	GEN	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2017	12	59365	Capital Power Corporation	IPP	Cardinal Point LLC	IL	59902	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2017	12	59365	Capital Power Corporation	IPP	Hopeful Solar LLC	GA	59892	GEN	20.7	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.7
2017	12	59365	Capital Power Corporation	IPP	New Frontier Wind	ND	59903	GEN	99.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	99.0
2017	12	59365	Capital Power Corporation	IPP	Poplars Ranch Solar LLC	OR	59890	GEN	16.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	16.0
2017	12	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	56215	E ON Climate Renewables N America LLC	IPP	Grandview Wind Farm III LLC	TX	59067	GVIII	188.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	188.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Magic Valley Wind Farm II	TX	59066	MVII	230.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	230.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Twin Forks Wind Farm LLC	IL	59061	WT1	351.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	351.0
2017	12	56215	E ON Climate Renewables N America LLC	IPP	Vici Wind Farm	OK	59062	VICI	104.4	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.4
2017	12	60147	Enerparc Solar Development, LLC	IPP	Hilly Branch	NC	60358	28941	2.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	12	60147	Enerparc Solar Development, LLC	IPP	Neal Hawkins Rd	NC	60359	60916	4.3	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.3
2017	12	60147	Enerparc Solar Development, LLC	IPP	Pike Road Solar	NC	60360	51116	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	58672	Everpower Wind Holdings Inc	IPP	Buckeye Wind Farm	OH	58776	1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2017	12	58672	Everpower Wind Holdings Inc	IPP	Coyote Crest Wind Farm	WA	58778	1	126.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	126.0
2017	12	58672	Everpower Wind Holdings Inc	IPP	Horse Thief Wind Project, LLC	MT	59758	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2017	12	58672	Everpower Wind Holdings Inc	IPP	Mason Dixon Wind Farm	PA	60212	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2017	12	58672	Everpower Wind Holdings Inc	IPP	Mud Springs Wind Project, LLC	MT	59756	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2017	12	58672	Everpower Wind Holdings Inc	IPP	Pryor Caves Wind Project, LLC	MT	59757	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2017	12	58672	Everpower Wind Holdings Inc	IPP	Scioto Ridge Wind Farm	OH	58780	1	300.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	300.0
2017	12	58672	Everpower Wind Holdings Inc	IPP	Terrapin Hills Wind Farm	MD	60211	1	50.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	50.0
2017	12	56615	First Solar Project Development	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2017	12	59155	First Wind O&M, LLC	IPP	Bowers Wind Project	ME	57088	1	48.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	48.0
2017	12	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	1	156.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	170.0
2017	12	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	2	156.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	170.0
2017	12	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	3	156.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	170.0
2017	12	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	4	390.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	390.0
2017	12	58901	Hydro Green Energy	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	5.3
2017	12	15399	Iberdrola Renewables Inc	IPP	Desert Wind	NC	59968	1	208.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	208.0
2017	12	60069	Jester Solar LLC	IPP	Jester Solar	NC	60290	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	12	59678	KDC Solar PR1, LLC	IPP	KDC Solar PR1, LLC	NJ	59910	SF	22.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	22.0
2017	12	56911	Kalaeloa Solar One LLC	IPP	Kalaeloa Solar One	HI	57569	KS1-A	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2017	12	11204	Los Alamos County	Electric Utility	Los Alamos PV Site	NM	58256	4	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2017	12	59343	Maricopa East Solar PV, LLC	IPP	Maricopa East Solar	CA	59609	MES	18.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	18.0
2017	12	56941	Meadow Lake Wind Farm V LLC	IPP	Meadow Lake Wind Farm V LLC	IN	57628	GEN1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2017	12	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	25.0
2017	12	56935	Number Nine Wind Farm LLC	IPP	Number Nine Wind Farm	ME	57612	GEN1	250.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	250.0
2017	12	56545	Pattern Operators LP	IPP	Grady Wind Energy Center, LLC	NM	60317	1	110.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.8
2017	12	56949	Paulding Wind Farm LLC	IPP	Paulding Wind Farm LLC	OH	57611	GEN1	49.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	49.0
2017	12	56424	Quilt Block Wind Farm LLC	IPP	Quilt Block Wind Farm LLC	WI	57116	GEN 1	98.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	98.0
2017	12	59701	RE Tranquillity 8 LLC	IPP	RE Tranquility 8	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	205.3
2017	12	58843	Searchlight Wind Energy LLC	IPP	Searchlight Wind	NV	58988	1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2017	12	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

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	59080	Soleil Energy Solutions, LLC	IPP	Westside Solar Farm	NC	59258	WEST1	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2017	12	58860	Southbridge Recycling and Disposal Park, Inc	IPP	Southbridge Landfill Gas-to-Energy	MA	59011	CAT2	1.5	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2017	12	59056	Tri Global Energy, LLC	IPP	Bearkat	TX	59972	BRKAT	360.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	360.0
2017	12	59056	Tri Global Energy, LLC	IPP	Blue Cloud Renewable Energy Project, LLC	TX	60270	WT1	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2017	12	58796	Trishe Wind Colorado	IPP	Trishe Wind Colorado	CO	58928	1	30.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	30.0
2017	12	56633	Trishe Wind Minnesota	IPP	Trishe Wind Minnesota	MN	57255	1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2017	12	58761	White Camp Solar LLC	IPP	White Camp Solar	TX	58888	WCAMP	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2017	12	60072	Willard Solar, LLC	IPP	Willard Solar	NC	60287	PV1	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	1	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Landfill	NC	57492	GEN7	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2018	1	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Landfill	NC	57492	GEN8	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2018	1	2719	CalWind Resources Inc	IPP	Tehachapi Wind Resource II	CA	54909	PLAN	15.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.5
2018	1	56204	Diamond Generating Corporation - Operations, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG1	198.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.0
2018	1	56204	Diamond Generating Corporation - Operations, LLC	IPP	CPV Valley Energy Center	NY	56940	CTG2	198.2	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	235.0
2018	1	56204	Diamond Generating Corporation - Operations, LLC	IPP	CPV Valley Energy Center	NY	56940	STG	308.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	300.0
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	CA1	388.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT1	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT2	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT2	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT3	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT4	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT5	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT6	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT7	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG1	226.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.2
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG2	226.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.2
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	CTG3	226.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	231.2
2018	1	60162	Panda Hummel Station LLC	IPP	Panda Hummel Station LLC	PA	60368	STG	417.6	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	460.0
2018	1	60159	RES America Developments Inc	IPP	Lamesa Solar	TX	60372	LSPV2	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	1	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.6
2018	1	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Sorghum to Ethanol Advanced Biorefin	FL	58997	G1001	12.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	15.0
2018	2	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2018	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2018	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	STG	289.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	289.0
2018	2	56615	First Solar Project Development	IPP	Little Bear Solar 1, LLC	CA	59870	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	2	56615	First Solar Project Development	IPP	Little Bear Solar 2, LLC	CA	59885	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	2	56615	First Solar Project Development	IPP	Windhub Solar A LLC	CA	59878	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	2	56615	First Solar Project Development	IPP	Windhub Solar B, LLC	CA	59969	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2018	2	60040	Hale Wind Energy	IPP	Hale Community Wind Farm	TX	59247	HALE2	240.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	240.0
2018	2	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT11	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2018	2	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT12	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2018	2	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	STG11	436.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	436.0
2018	3	59272	41MB 8me, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2018	3	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	3	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-1	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2018	3	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-2	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2018	3	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	STG-1	300.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	311.0
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN8	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	187.0
2018	3	5310	Doswell Ltd Partnership	IPP	Doswell Energy Center	VA	52019	GEN9	150.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	187.0
2018	3	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CA1	388.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2018	3	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT1	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	3	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT2	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S1	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S2	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S3	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S4	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S5	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	19547	Hawaiian Electric Co Inc	Electric Utility	Schofield Generating Station	HI	60328	S6	8.4	Other Waste Biomass	OBL	IC	(U) Under construction, less than or equal to 50 percent complete	8.4
2018	3	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	215.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	238.0
2018	3	59260	Wright Solar Park, LLC	IPP	Wright Solar Park	CA	59525	FRWSP	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2018	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	4	59683	Rockwood Energy Center LLC	IPP	Rockwood Energy Center LLC	TX	59918	ROCKW	1,068.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,068.0
2018	4	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	CTG	11.6	Other Waste Biomass	OBG	CT	(U) Under construction, less than or equal to 50 percent complete	12.0
2018	4	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	STG	7.4	Other Waste Biomass	OBG	CA	(U) Under construction, less than or equal to 50 percent complete	9.0
2018	4	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	1	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	4	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	2	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	235.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	285.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	235.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	285.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	280.5	All Other	WH	CA	(T) Regulatory approvals received. Not under construction	280.5
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	1GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC1ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	364.7
2018	5	59283	Gateway Energy Center, LLC	IPP	Gateway Energy Center, LLC	NJ	59538	CT001	442.8	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	440.0
2018	5	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN1	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN1	490.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. 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	(L) Regulatory approvals pending. Not under construction	529.0
2018	5	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG1	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2018	5	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG2	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	10	327.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	359.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	11	214.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	235.0
2018	5	60100	PSEG Keys Energy Center, LLC	IPP	Keys Energy Center	MD	60302	12	214.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	235.0
2018	6	59687	AltaGas Sonoran Energy Inc	IPP	Sonoran Energy Project	CA	59925	GEN1	510.7	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	553.0
2018	6	2338	Calpine Central LP	IPP	Mankato Energy Center	MN	56104	CTG1	200.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	210.0
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG1	257.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	269.5
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	CTG2	257.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	269.5
2018	6	60170	Clean Energy Future-Lordstown, LLC	IPP	Clean Energy Future-Lordstown, LLC	OH	60376	STG1	336.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	337.0
2018	6	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	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	GT1	232.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2018	6	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
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	49805	Kennecott Utah Copper	Industrial	Kennecott Power Plant	UT	56163	5CTG	176.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	207.9
2018	6	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	244.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	301.5
2018	6	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	208.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	234.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-2	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-3	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-1	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	701	321.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	430.0
2018	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	702	219.0	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	287.0
2018	6	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	6A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT1	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT2	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT3	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT4	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	238.0
2018	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	CT2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	238.0
2018	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	ST1	245.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	260.0
2018	6	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2018	6	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2018	7	56615	First Solar Project Development	IPP	CA Flats Solar 150, LLC	CA	60034	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2018	7	54863	U S Power Generating Company LLC	IPP	Gowanus Gas Turbines Generating	NY	2494	SS	90.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	93.0
2018	8	56615	First Solar Project Development	IPP	Snow Mountain Solar, LLC	NV	59935	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	10	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTA	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	2GTB	251.7	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	310.3
2018	10	6455	Duke Energy Florida, Inc	Electric Utility	Citrus County Combined Cycle Plant	FL	60138	CC2ST	316.7	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	364.7
2018	10	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	244.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	301.5
2018	10	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	208.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	234.0
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 7	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 8	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 9	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC10	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC11	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	12	58794	American Wind Energy Management Corp.	IPP	Sangamon Wind Two LLC	IL	58926	SAN2	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	02B	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	56771	Black Hills Service Company LLC	Electric Utility	Cheyenne Prairie Generating Station	WY	57703	03A	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	59992	Caprock Solar 2, LLC	IPP	Caprock Solar 2 LLC	NM	59846	PV1	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	2	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2018	12	59432	Clear Creek Power	IPP	Highland Park Project	CO	59659	HPWT	198.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	198.0
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	ST	191.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	227.7
2018	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2018	12	58672	Everpower Wind Holdings Inc	IPP	Cassadaga Wind Farm	NY	58777	1	126.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	126.0
2018	12	59745	First Solar Asset Management	IPP	Cuyama Solar, LLC	CA	60043	GEN01	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2018	12	56615	First Solar Project Development	IPP	Portal Ridge Solar A, LLC	CA	60309	GEN01	18.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	18.5
2018	12	56615	First Solar Project Development	IPP	Willow Spring Solar 3, LLC	CA	60325	GEN01	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2018	12	56615	First Solar Project Development	IPP	Willow Spring Solar, LLC	CA	60324	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	12	58146	Gaelectric LLC	IPP	Jawbone Wind Project	MT	58175	JWPI	131.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	131.1
2018	12	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN2	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-1	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-2	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-3	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-4	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-5	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-6	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	ST-1	50.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	51.0
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	ST-2	50.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	51.0
2018	12	56911	Kalaeloa Solar One LLC	IPP	Kalaeloa Solar One	HI	57569	KS1-B	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2018	12	58763	LotusWorks-Summit Ridge I, LLC	IPP	Summit Ridge I Wind Farm	OR	58894	SRWF	192.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	192.0
2018	12	55983	Luminant Generation Company LLC	IPP	Horseshoe Bend	TX	59806	SOLAR	140.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	140.0
2018	12	4202	Phillips 66-Ponca City Refinery	Industrial	Ponca City Refinery	OK	52188	G1A	3.0	Other Gases	OG	ST	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	56069	SunCoke Energy, Inc.	Industrial	SunCoke Energy South Shore Facility	KY	60373	SSST6	60.0	Conventional Steam Coal	BIT	ST	(T) Regulatory approvals received. Not under construction	90.0
2018	12	2782	Terra-Gen Operating Company	IPP	Dixie Valley Power Partnership	NV	10681	GEN1	25.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	28.0
2018	12	59056	Tri Global Energy, LLC	IPP	Canyon Wind Project, LLC	TX	60271	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	59056	Tri Global Energy, LLC	IPP	Cone Renewable Energy Project, LLC	TX	60272	WT1	300.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	300.0
2018	12	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST	(U) Under construction, less than or equal to 50 percent complete	17.0
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT01	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT02	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT03	324.4	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	ST01	611.8	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	663.9
2019	1	56794	CE Obsidian Energy LLC	IPP	Black Rock I	CA	57477	G3201	60.0	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	70.0
2019	1	49893	Invenergy Services LLC	IPP	Lackawanna Energy Center	PA	60357	GEN3	465.0	Natural Gas Fired Combined Cycle	NG	CS	(U) Under construction, less than or equal to 50 percent complete	555.0
2019	3	59056	Tri Global Energy, LLC	IPP	Crosby County Wind Farm, LLC	TX	60273	WT1	160.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	160.0
2019	4	15473	Public Service Co of NM	Electric Utility	La Luz Energy Center	NM	58284	0002	40.2	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	42.3
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT1	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT2	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT3	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	2172	Brazos Electric Power Coop Inc	Electric Utility	Hill County Generation Facility	TX	60194	CT4	205.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2019	5	59111	Crawford Renewable Energy, LLC	IPP	Crawford Renewable Energy - Meadville Po	PA	59307	MPS	93.5	All Other	TDF	ST	(U) Under construction, less than or equal to 50 percent complete	99.5
2019	5	59677	Middlesex Energy Center LLC	IPP	Middlesex Energy Center LLC	NJ	59909	CT001	560.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	560.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	75.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2019	5	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	75.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	75.0
2019	6	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC1	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2019	6	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC2	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2019	6	7277	Calpine Corporation	IPP	Wild Horse Power Plant	CA	57181	1	40.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	48.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	CT1	235.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	242.0
2019	6	56606	Calpine New Jersey Generation LLC	IPP	Deepwater	NJ	2384	ST1	198.5	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	214.0
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1A	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1B	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1C	376.6	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	376.6
2019	6	6452	Florida Power & Light Co	Electric Utility	Okeechobee Clean Energy Center	FL	60345	1ST	593.3	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	593.3
2019	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCA1	224.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	321.6
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT1	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2019	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT2	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2019	6	21461	NRG Canal LLC	IPP	Canal	MA	1599	3	330.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	330.0
2019	6	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2019	6	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2019	6	54866	Robinson Power Company LLC	IPP	Robinson Power Company LLC	PA	56453	CTG1	950.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,025.0
2019	6	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	2	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG1	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG2	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2019	6	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	ST1	215.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	255.0
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG01	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG02	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG03	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG04	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG05	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG06	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	9	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	PVGEN	70.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	70.0
2019	10	60064	Clean Path Energy Center, LLC	IPP	Clean Path Energy Center	NM	60289	CPEC1	680.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	680.0
2019	10	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	345.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	390.0
2019	10	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	345.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	390.0
2019	10	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	345.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	390.0
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	CT5	191.2	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	191.2
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	CT7	191.2	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	191.2
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST6	102.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	102.0
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	ST8	102.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	102.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2019	12	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 Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	187.0
2019	12	56215	E ON Climate Renewables N America LLC	IPP	Magic Valley Wind Farm III LLC	TX	60362	MVIII	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2019	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm II	TX	59064	WT1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2019	12	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2019	12	56615	First Solar Project Development	IPP	North Rosamond Solar LLC	CA	59879	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2019	12	56615	First Solar Project Development	IPP	Sunshine Valley Solar	NV	59826	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3ST1	38.0	Natural Gas Steam Turbine	NG	ST	(L) Regulatory approvals pending. Not under construction	40.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TGB1	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	6541	Formosa Plastics Corp	Industrial	Formosa Utility Venture Ltd	TX	10554	3TGB2	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	102.0
2019	12	56094	Medicine Bow Fuel & Power LLC	IPP	Medicine Bow Fuel & Power LLC	WY	56452	1	350.0	Conventional Steam Coal	BIT	ST	(P) Planned for installation, but regulatory approvals not initiated	350.0
2019	12	14354	PacifiCorp	Electric Utility	Blundell	UT	299	3	35.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	30.0
2019	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	687.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	687.0
2019	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1A	274.0	Other Gases	OG	CT	(T) Regulatory approvals received. Not under construction	274.0
2019	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1B	126.0	Other Gases	OG	CA	(T) Regulatory approvals received. Not under construction	126.0
2019	12	56709	Turning Point Solar LLC	IPP	Turning Point Solar	OH	57371	TPS50	44.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	44.0
2020	1	56794	CE Obsidian Energy LLC	IPP	Black Rock II	CA	57478	G3202	60.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	70.0
2020	1	60131	South Field Energy, LLC	IPP	South Field Energy	OH	60356	SFECC	1,060.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	1,105.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2020	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	250.0
2020	5	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT5	42.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.0
2020	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	4	282.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	321.0
2020	5	18454	Tampa Electric Co	Electric Utility	Tampa Electric Co NA 2	FL	56352	1	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	220.0
2020	6	60118	83WI 8ME, LLC	IPP	Midway Solar Farm 1	CA	60336	MSF1	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2020	6	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK1	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	6	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCA1	261.2	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	280.5
2020	6	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT1	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2020	6	59964	ESC Brooke County Power I	IPP	ESC Brooke County Power I	WV	60202	BCCT2	252.3	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCA1	205.4	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	207.4
2020	6	59966	ESC Harrison County Power	IPP	ESC Harrison County Power	WV	60206	HCCT1	319.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	371.5
2020	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCA1	302.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	331.5
2020	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT1	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2020	6	59965	ESC Tioga County Power	IPP	ESC Tioga County Power	PA	60205	TCCT2	253.1	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	280.5
2020	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	4	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	6	56167	Imperial Valley Solar, LLC	IPP	Imperial Valley Solar, LLC	CA	56917	2	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2020	6	59588	Lake Creek 3 Power Company LLC	IPP	Lake Creek	TX	3502	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT5	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT6	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	6	56883	Tradinghouse Power Company LLC	IPP	Tradinghouse	TX	3506	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	6	56883	Tradinghouse Power Company LLC	IPP	Tradinghouse	TX	3506	CT2	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2020	7	58758	CPV Smyth Generation Company LLC	IPP	CPV Smyth Generation Company LLC	VA	58878	1	989.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	1,017.0
2020	8	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	9	7277	Calpine Corporation	IPP	Buckeye Geothermal Power Plant	CA	57180	1	49.9	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	56.9
2020	10	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	5580	East Kentucky Power Coop, Inc	Electric Utility	Green Valley LFGTE	KY	56278	4	0.8	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	0.8
2020	12	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	7277	Calpine Corporation	IPP	Telephone Flat	CA	55846	1	42.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	49.9
2020	12	59365	Capital Power Corporation	IPP	Nolin Hills Wind, LLC	OR	60070	GEN	350.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	350.0
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	8	209.5	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	209.5
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	9	209.5	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	108.8
2020	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	813.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	813.0
2020	12	19316	Two Elk Generation Partners LP	IPP	Two Elk Generating Station	WY	55360	GEN1	275.0	Conventional Steam Coal	WC	ST	(U) Under construction, less than or equal to 50 percent complete	320.0
2021	1	56794	CE Obsidian Energy LLC	IPP	Black Rock III	CA	57479	G303	60.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	70.0
2021	4	55927	Power4Georgians LLC	Electric Utility	Plant Washington	GA	56675	MAIN	850.0	Conventional Steam Coal	SUB	ST	(T) Regulatory approvals received. Not under construction	850.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS1	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS3	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS2	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	116.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS4	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT11	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT2	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2022	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	ST1	344.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2022	12	56943	Blackstone Wind Farm III LLC	IPP	Blackstone Wind Farm III	IL	57618	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	12	56944	Blackstone Wind Farm IV LLC	IPP	Blackstone Wind Farm IV	IL	57619	GEN1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	12	7277	Calpine Corporation	IPP	Four Mile Hill	CA	55845	1	42.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	49.9
2022	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-A	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2022	12	56425	Simpson Ridge Wind Farm LLC	IPP	Simpson Ridge Wind Farm LLC	WY	57117	GEN 1	50.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS5	210.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	228.0
2023	5	18454	Tampa Electric Co	Electric Utility	Tampa Electric Co NA 2	FL	56352	2	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	220.0
2023	12	57470	Noble Energy Systems, Inc.	IPP	Pea Patch Wind Farm	MD	58087	PEAP	50.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.0
2023	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-B	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0

NOTES:

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

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

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2016	5	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	1	200.0	Conventional Steam Coal	BIT	ST
2016	5	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	2	200.0	Conventional Steam Coal	BIT	ST
2016	5	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2016	5	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2016	5	4161	Constellation Power Source Gen	IPP	Riverside (MD)	MD	1559	4	74.0	Natural Gas Steam Turbine	NG	ST
2016	5	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	1	170.0	Conventional Steam Coal	SUB	ST
2016	5	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U4J08	1.4	Landfill Gas	LFG	IC
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	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	5517	Dynegy Midwest Generation Inc	IPP	Wood River	IL	898	4	89.5	Conventional Steam Coal	SUB	ST
2016	6	5517	Dynegy Midwest Generation Inc	IPP	Wood River	IL	898	5	375.5	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	12807	Michigan South Central Pwr Agy	Electric Utility	Endicott Station	MI	4259	1	55.0	Conventional Steam Coal	BIT	ST
2016	6	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	GT7	7.3	Natural Gas Fired Combustion Turbine	NG	GT
2016	6	18125	Stillwater Utilities Authority	Electric Utility	Boomer Lake Station	OK	3000	2	13.0	Natural Gas Steam Turbine	NG	ST
2016	6	40211	Wabash Valley Power Assn, Inc	Electric Utility	Wabash Valley Power IGCC	IN	57842	1	85.0	Petroleum Coke	SGP	CA
2016	7	7140	Georgia Power Co	Electric Utility	Mitchell (GA)	GA	727	3	155.0	Conventional Steam Coal	BIT	ST
2016	7	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J98	1.0	Landfill Gas	LFG	IC
2016	7	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN1	0.4	Other Waste Biomass	OBG	IC
2016	7	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN2	0.4	Other Waste Biomass	OBG	IC
2016	7	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN3	0.4	Other Waste Biomass	OBG	IC
2016	8	14534	City of Pasadena - (CA)	Electric Utility	Broadway (CA)	CA	420	B3	71.0	Natural Gas Steam Turbine	NG	ST
2016	8	20838	Win-Sam Inc	Commercial	University of Texas at San Antonio	TX	54606	GEN1	3.3	Natural Gas Internal Combustion Engine	NG	IC
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	1	1.3	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	2	1.3	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	3	1.3	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	4	1.2	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	5	1.2	Conventional Hydroelectric	WAT	HY
2016	10	6035	Exelon Power	IPP	Exelon L Street	MA	1587	GT1	16.0	Petroleum Liquids	DFO	GT
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2016	10	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2016	11	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	1	28.0	Natural Gas Steam Turbine	NG	ST
2016	11	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	2	29.0	Natural Gas Steam Turbine	NG	ST
2016	11	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	3	71.0	Natural Gas Steam Turbine	NG	ST
2016	11	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	1TG	10.5	Wood/Wood Waste Biomass	BLQ	ST
2016	11	14127	Omaha Public Power District	Electric Utility	Fort Calhoun	NE	2289	1	478.1	Nuclear	NUC	ST
2016	12	5347	Dow Chemical Co	Industrial	LaO Energy Systems	LA	52006	GEN7	95.0	Natural Gas Fired Combined Cycle	NG	CT
2016	12	7160	Geysers Power Co LLC	IPP	West Ford Flat Power Plant	CA	10199	WFF1	15.0	Geothermal	GEO	ST
2016	12	7160	Geysers Power Co LLC	IPP	West Ford Flat Power Plant	CA	10199	WFF2	15.0	Geothermal	GEO	ST
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	El Cajon	CA	301	ENCI	16.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	ST1	106.0	Natural Gas Steam Turbine	NG	ST
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	Kearny	CA	303	KEA3	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	Miramar	CA	305	MRGT	36.0	Natural Gas Fired Combustion Turbine	NG	GT
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	Arvah B Hopkins	FL	688	GT1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	4	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	1	490.0	Conventional Steam Coal	SUB	ST
2017	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2017	4	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	ST
2017	5	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2017	5	12628	NRG Chalk Point LLC	IPP	Chalk Point LLC	MD	1571	ST1	331.0	Conventional Steam Coal	BIT	ST
2017	5	12628	NRG Chalk Point LLC	IPP	Chalk Point LLC	MD	1571	ST2	336.0	Conventional Steam Coal	BIT	ST
2017	5	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	4	16.9	Petroleum Liquids	KER	GT
2017	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	2	150.0	Conventional Steam Coal	BIT	ST
2017	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	3	148.0	Petroleum Liquids	RFO	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	1	236.1	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	2	238.6	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	3	596.3	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	4	434.0	Petroleum Liquids	RFO	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	3	31.1	Natural Gas Steam Turbine	NG	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	4	37.5	Natural Gas Steam Turbine	NG	ST
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC1	2.0	Petroleum Liquids	DFO	IC
2017	6	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC2	1.4	Petroleum Liquids	DFO	IC
2017	6	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	1	17.0	Natural Gas Steam Turbine	NG	ST
2017	6	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	2	17.0	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	3	103.8	Conventional Hydroelectric	WAT	HY
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	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	12	9417	Interstate Power and Light Co	Electric Utility	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	WGNS	18.0	Onshore Wind Turbine	WND	WT
2017	12	13781	Northern States Power Co - Minnesota	Electric Utility	Red Wing	MN	1926	1	9.0	Municipal Solid Waste	MSW	ST
2017	12	13781	Northern States Power Co - Minnesota	Electric Utility	Red Wing	MN	1926	2	9.0	Municipal Solid Waste	MSW	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	3	121.0	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	4	259.0	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN1	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN2	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN4	5.2	Natural Gas Steam Turbine	NG	ST
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Balch 2	CA	218	2	52.5	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Balch 2	CA	218	3	52.5	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2017	12	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
2017	12	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	5	184.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	2	340.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	3	497.0	Conventional Steam Coal	BIT	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	1	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	2	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	3	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	4	107.0	Conventional Steam Coal	SUB	ST
2018	1	12541	City of Milford - (IA)	Electric Utility	Milford	IA	1164	1	0.6	Petroleum Liquids	DFO	IC
2018	1	12541	City of Milford - (IA)	Electric Utility	Milford	IA	1164	4	0.5	Petroleum Liquids	DFO	IC
2018	1	17891	City of St Marys - (OH)	Electric Utility	St Marys	OH	2942	7	12.0	Petroleum Liquids	DFO	GT
2018	4	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT2	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2018	4	6455	Duke Energy Florida, Inc	Electric Utility	Crystal River	FL	628	1	370.0	Conventional Steam Coal	BIT	ST
2018	4	6455	Duke Energy Florida, Inc	Electric Utility	Crystal River	FL	628	2	499.0	Conventional Steam Coal	BIT	ST
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	7	7308	Hawkeye Energy Greenport LLC	IPP	Hawkeye Energy Greenport LLC	NY	55969	U-01	52.7	Petroleum Liquids	KER	GT
2018	7	15466	Public Service Co of Colorado	Electric Utility	Salida	CO	474	1	0.8	Conventional Hydroelectric	WAT	HY
2018	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	12686	Mississippi Power Co	Electric Utility	Sweatt	MS	2048	1	46.0	Natural Gas Steam Turbine	NG	ST
2018	12	12686	Mississippi Power Co	Electric Utility	Sweatt	MS	2048	2	46.0	Natural Gas Steam Turbine	NG	ST
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	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8	103.8	Conventional Hydroelectric	WAT	HY
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	1	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	2	175.0	Natural Gas Steam Turbine	NG	ST
2019	10	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	5	485.0	Natural Gas Steam Turbine	NG	ST
2019	10	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	1	225.8	Natural Gas Steam Turbine	NG	ST
2019	10	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	7	480.0	Natural Gas Steam Turbine	NG	ST
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	1	189.0	Conventional Steam Coal	BIT	ST
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	2	189.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	1	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	2	55.0	Natural Gas Steam Turbine	NG	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	1	64.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	2	66.0	Conventional Steam Coal	BIT	ST
2019	12	56706	Chevron Technology Ventures	IPP	Questa Solar Facility	NM	57369	QST	1.0	Solar Photovoltaic	SUN	PV
2019	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant	CA	260	6	754.0	Natural Gas Steam Turbine	NG	ST
2019	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant	CA	260	7	755.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	102.0	Natural Gas Steam Turbine	NG	ST
2019	12	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	607.7	Nuclear	NUC	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	1	49.8	Conventional Steam Coal	SUB	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	47.1	Conventional Steam Coal	SUB	ST
2019	12	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	CTG1	19.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	ST
2019	12	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

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	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	C P Crane	MD	1552	1	190.0	Conventional Steam Coal	SUB	ST
2020	6	58177	Raven Power Holdings LLC	IPP	C P Crane	MD	1552	2	195.0	Conventional Steam Coal	SUB	ST
2020	6	58177	Raven Power Holdings LLC	IPP	Herbert A Wagner	MD	1554	2	118.0	Conventional Steam Coal	BIT	ST
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN1	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN2	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN3	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN4	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN5	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN6	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	9	14173	Oroville Cogeneration LP	Industrial	Oroville Cogeneration LP	CA	54477	GEN7	1.1	Natural Gas Internal Combustion Engine	NG	IC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	3	332.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	4	335.0	Natural Gas Steam Turbine	NG	ST
2020	12	22148	AES Alamitos LLC	IPP	AES Alamitos LLC	CA	315	6	495.0	Natural Gas Steam Turbine	NG	ST
2020	12	23693	AES Huntington Beach LLC	IPP	AES Huntington Beach LLC	CA	335	2	225.8	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	5	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	6	175.0	Natural Gas Steam Turbine	NG	ST
2020	12	22484	AES Redondo Beach LLC	IPP	AES Redondo Beach LLC	CA	356	8	480.0	Natural Gas Steam Turbine	NG	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	174.0	Natural Gas Steam Turbine	NG	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	177.0	Natural Gas Steam Turbine	NG	ST
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	3	80.0	Conventional Steam Coal	SUB	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	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	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	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	Natural Gas Steam Turbine	NG	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
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	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
2023	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	6	167.8	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
2025	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	2	670.0	Conventional Steam Coal	SUB	ST
2028	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	1	125.0	Conventional Steam Coal	BIT	ST
2028	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	2	125.0	Conventional Steam Coal	BIT	ST
2034	6	58944	Enerparc CA 1, LLC	IPP	Enerparc CA1 LLC	CA	59122	ECA11	1.5	Solar Photovoltaic	SUN	PV
2045		195	Alabama Power Co	Electric Utility	Holt Dam	AL	12	1	45.0	Conventional Hydroelectric	WAT	HY

NOTES:

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

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

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

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

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

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

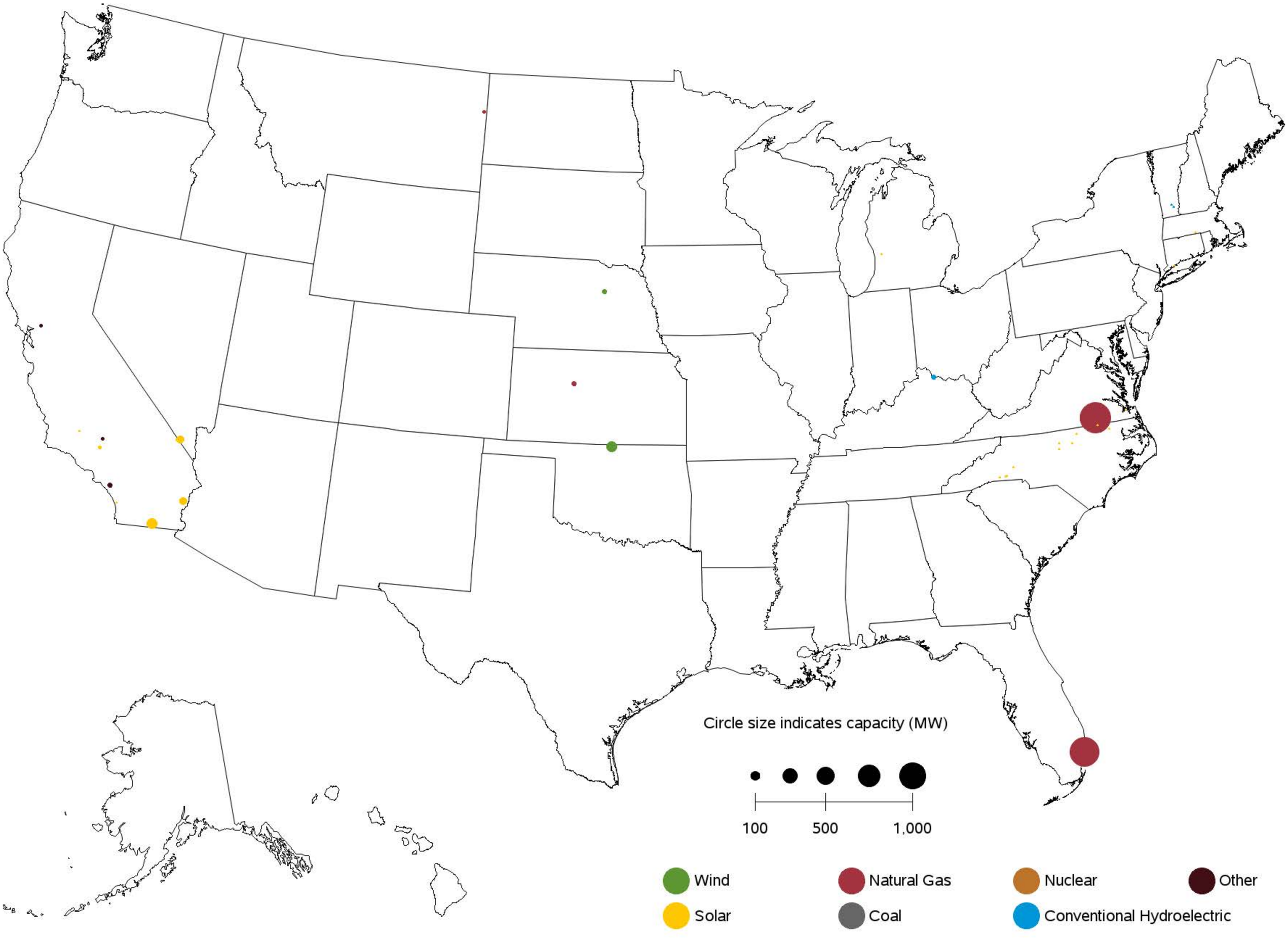
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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

Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.2%	35.9%	32.5%	28.6%	22.7%	67.6%	52.9%	71.7%
Year 2014								
January	99.1%	36.7%	40.3%	NA	NA	68.1%	60.0%	74.0%
February	94.0%	32.6%	34.8%	NA	NA	68.3%	59.5%	73.3%
March	84.5%	40.7%	39.8%	NA	NA	69.6%	59.7%	73.5%
April	78.8%	44.5%	43.2%	NA	NA	69.9%	49.5%	74.6%
May	85.2%	44.6%	34.9%	NA	NA	70.6%	48.2%	73.2%
June	95.4%	44.8%	36.5%	NA	NA	70.8%	63.0%	73.4%
July	97.5%	41.3%	27.0%	NA	NA	73.1%	63.4%	72.5%
August	96.4%	33.7%	22.5%	30.9%	25.4%	71.1%	62.8%	73.0%
Sept	94.6%	28.2%	26.1%	30.7%	26.3%	68.9%	61.2%	74.2%
October	84.5%	29.2%	31.6%	26.5%	21.1%	64.4%	56.5%	73.9%
November	91.3%	32.6%	42.3%	22.3%	13.8%	66.1%	62.1%	77.3%
December	99.6%	37.8%	30.4%	15.1%	5.6%	65.4%	60.8%	75.5%
Year 2015								
January	101.3%	41.5%	31.7%	19.7%	5.1%	67.2%	55.3%	73.3%
February	95.8%	42.5%	34.5%	26.2%	15.9%	62.0%	58.4%	73.8%
March	88.0%	41.8%	31.7%	30.5%	24.2%	58.9%	50.5%	74.5%
April	84.2%	39.2%	37.8%	34.3%	32.5%	65.3%	41.7%	70.2%
May	89.7%	34.0%	35.2%	34.0%	31.1%	67.1%	48.0%	74.3%
June	96.4%	35.0%	28.3%	34.4%	34.5%	69.4%	54.3%	71.9%
July	97.2%	35.5%	27.7%	33.9%	35.1%	70.6%	59.9%	72.3%
August	98.6%	33.0%	26.0%	33.7%	32.8%	72.8%	61.3%	71.7%
Sept	93.5%	28.3%	28.3%	29.2%	27.5%	67.6%	52.0%	65.5%
October	82.5%	28.0%	31.9%	25.5%	16.7%	68.3%	46.3%	69.4%
November	84.8%	33.4%	39.0%	23.5%	17.1%	69.7%	51.0%	71.9%
December	94.8%	38.6%	37.5%	19.2%	9.6%	71.9%	56.0%	72.0%
Year 2016								
January	98.8%	42.4%	34.2%	17.9%	6.9%	69.2%	52.3%	72.8%
February	95.5%	43.1%	39.9%	26.6%	19.8%	66.0%	54.8%	72.8%
March	90.1%	45.1%	40.3%	27.8%	19.9%	63.5%	49.8%	72.2%
April	87.8%	44.3%	39.2%	30.7%	20.9%	68.5%	38.4%	68.3%

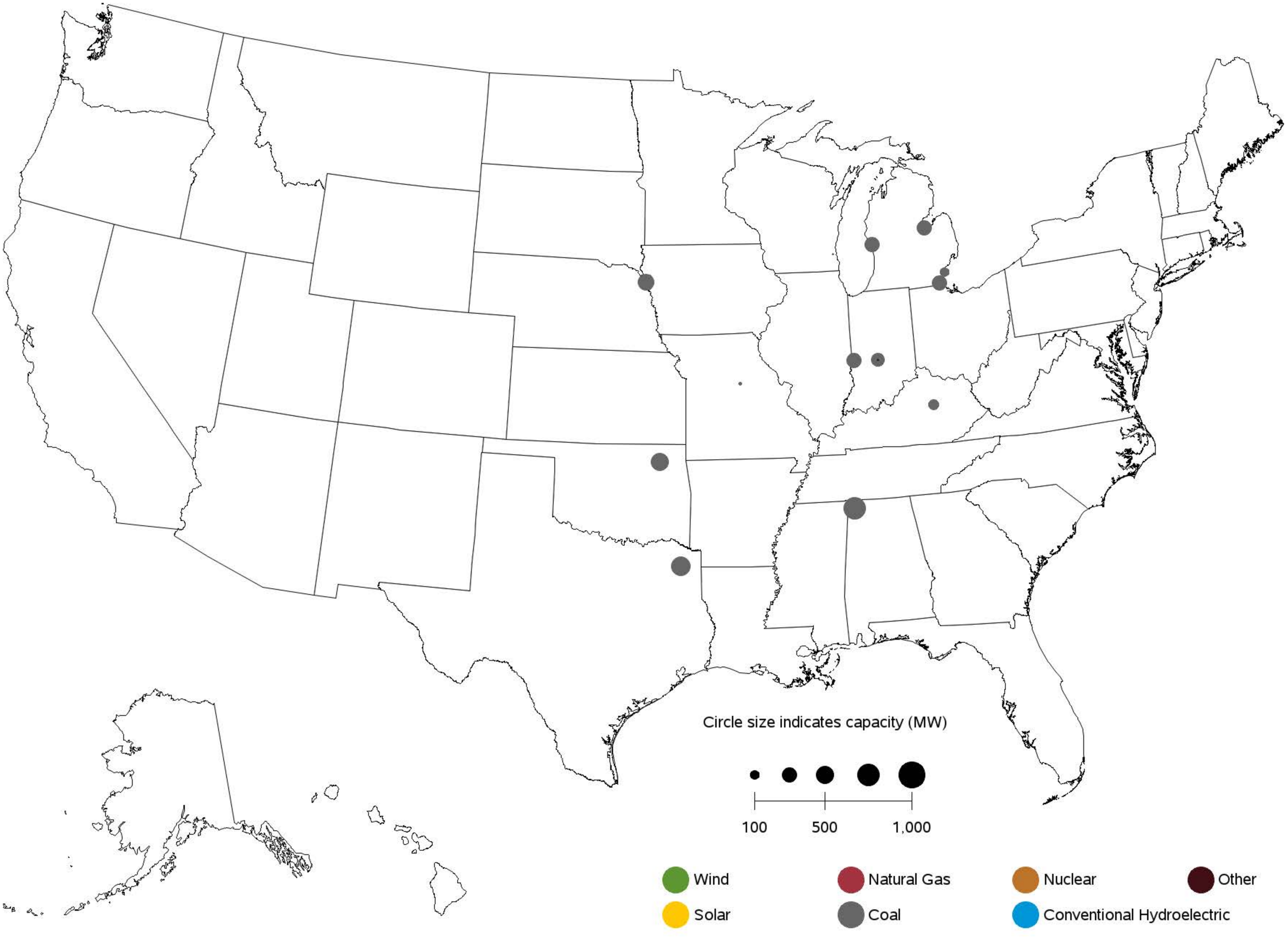
Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. NA = Not Available
Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations 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 April 2016



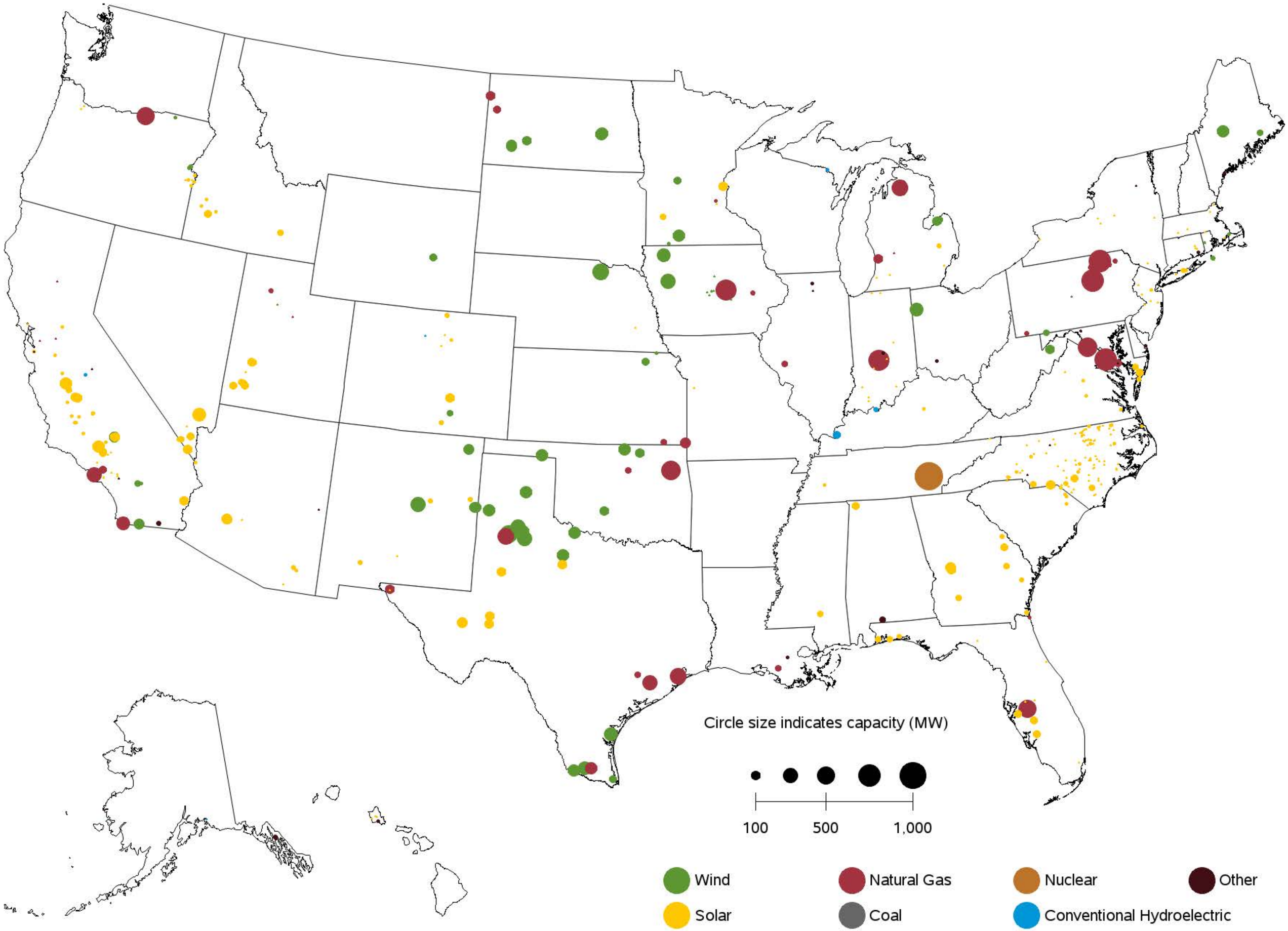
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



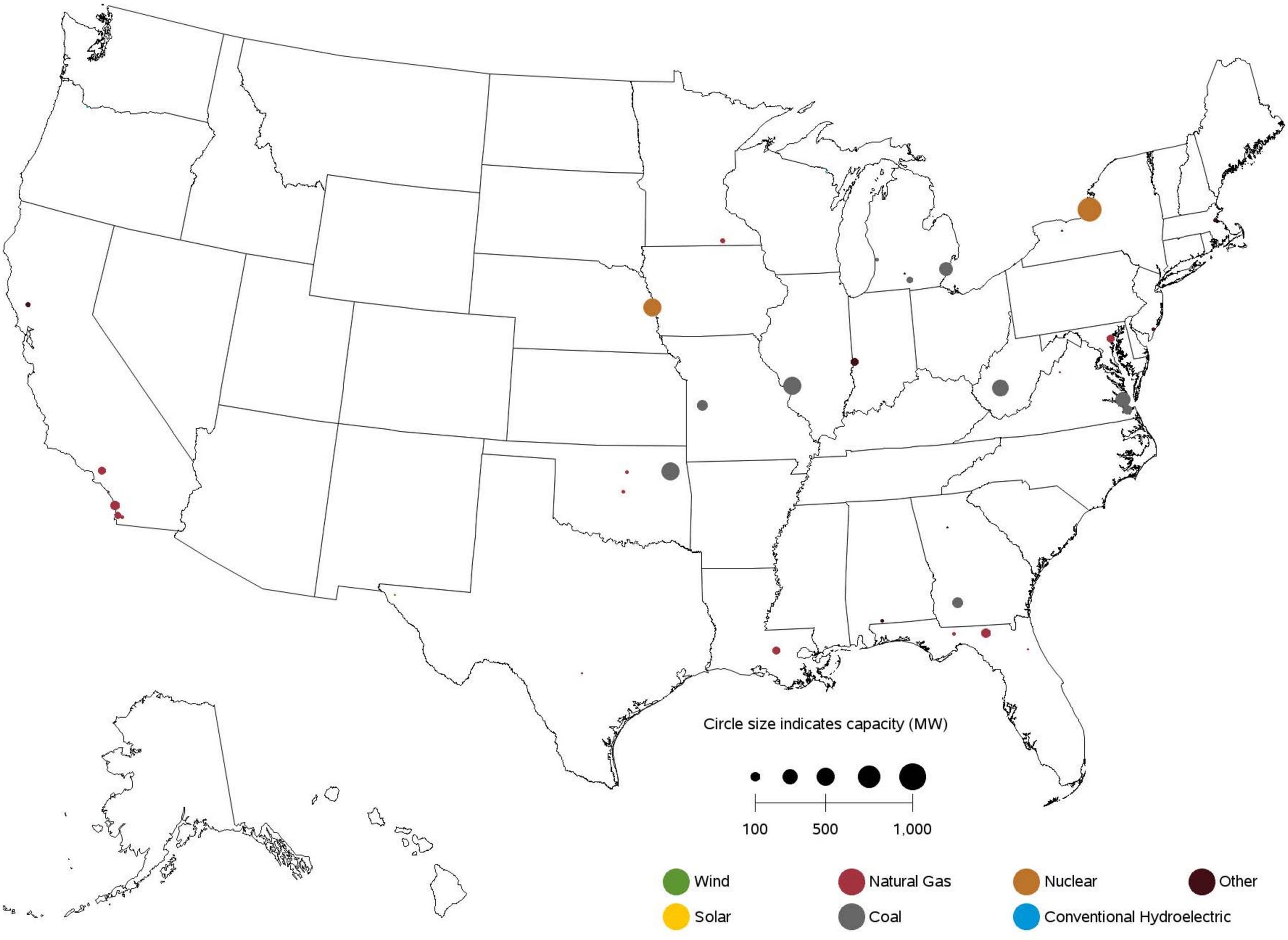
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**2**	**61**	**0**	**2**	**0**	**0**	**9**
Connecticut	0	118	0	2	0	0	52
Maine	0	71	0	8	0	0	13
Massachusetts	2	128	0	3	0	0	24
New Hampshire	0	32	0	1	0	0	12
Rhode Island	0	87	0	3	0	0	502
Vermont	0	374	0	0	0	0	30
Middle Atlantic	**3**	**22**	**69**	**1**	**13**	**0**	**3**
New Jersey	0	253	173	2	46	0	238
New York	0	49	0	3	0	0	3
Pennsylvania	3	9	73	2	10	0	10
East North Central	**1**	**3**	**5**	**2**	**7**	**0**	**14**
Illinois	0	3	0	4	33	0	68
Indiana	0	5	0	3	10	0	19
Michigan	4	8	16	3	0	0	27
Ohio	2	7	5	2	21	0	28
Wisconsin	1	24	0	4	0	0	22
West North Central	**1**	**11**	**112**	**6**	**85**	**0**	**7**
Iowa	7	15	112	33	0	0	38
Kansas	0	10	0	36	0	0	242
Minnesota	5	40	0	5	0	0	43
Missouri	0	4	0	8	0	0	13
Nebraska	4	53	0	40	0	0	31
North Dakota	3	26	0	85	85	0	0
South Dakota	0	170	0	34	0	0	0
South Atlantic	**0**	**6**	**0**	**0**	**0**	**0**	**6**
Delaware	0	166	0	5	0	0	0
District of Columbia	0	0	0	142	0	0	0
Florida	1	3	0	1	0	0	74
Georgia	0	5	0	1	0	0	12
Maryland	0	10	0	8	0	0	2
North Carolina	3	44	0	1	0	0	12
South Carolina	0	16	0	4	0	0	17
Virginia	3	5	0	1	0	0	15
West Virginia	0	0	0	2	0	0	24
East South Central	**0**	**6**	**0**	**1**	**87**	**0**	**5**
Alabama	1	76	0	2	128	0	6
Kentucky	1	3	0	4	0	0	7
Mississippi	0	14	0	1	0	0	0
Tennessee	0	4	0	2	0	0	11
West South Central	**0**	**6**	**5**	**1**	**4**	**0**	**5**
Arkansas	0	0	0	2	0	0	9
Louisiana	0	8	4	1	4	0	0
Oklahoma	3	30	0	1	0	0	10
Texas	0	7	71	1	6	0	18
Mountain	**1**	**5**	**0**	**1**	**8**	**0**	**3**
Arizona	0	1	0	1	0	0	2
Colorado	1	311	0	3	0	0	23
Idaho	102	16,830	0	27	0	0	6
Montana	8	60	0	75	0	0	5
Nevada	0	0	0	1	0	0	3
New Mexico	0	11	0	7	0	0	91
Utah	3	13	0	6	0	0	40
Wyoming	4	11	0	38	8	0	15
Pacific Contiguous	**0**	**38**	**0**	**4**	**6**	**0**	**1**
California	0	38	0	4	7	0	6
Oregon	0	28,260	0	10	0	0	2
Washington	0	94	0	14	0	0	1
Pacific Noncontiguous	**6**	**4**	**0**	**21**	**100**	**0**	**23**
Alaska	23	4	0	21	0	0	24
Hawaii	5	5	0	0	100	0	87
U.S. Total	**0**	**4**	**3**	**0**	**3**	**0**	**1**

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

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

Total (All Sectors) by Census Division and State, April 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**	**13**	**3**	**0**	**4**	**1**
Connecticut	0	0	0	69	6	0	5	2
Maine	0	0	0	0	1	0	14	5
Massachusetts	0	0	0	13	7	0	5	2
New Hampshire	0	0	0	0	16	0	36	2
Rhode Island	0	0	0	72	8	0	0	3
Vermont	0	0	0	44	16	0	0	20
Middle Atlantic	**0**	**0**	**0**	**9**	**2**	**0**	**4**	**1**
New Jersey	0	0	0	11	6	0	6	1
New York	0	0	0	23	3	0	8	1
Pennsylvania	0	0	0	26	2	0	6	1
East North Central	**0**	**0**	**0**	**16**	**1**	**0**	**7**	**0**
Illinois	0	0	0	31	1	0	24	0
Indiana	0	0	0	22	1	0	3	1
Michigan	0	0	0	101	4	0	10	2
Ohio	0	0	0	32	4	0	45	1
Wisconsin	0	0	0	189	3	0	32	2
West North Central	**0**	**0**	**0**	**65**	**0**	**0**	**10**	**1**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	267	0	0	169	2
Minnesota	0	0	0	122	2	0	11	2
Missouri	0	0	0	79	2	0	943	1
Nebraska	0	0	0	0	1	0	0	2
North Dakota	0	0	0	0	1	0	48	2
South Dakota	0	0	0	0	1	0	0	4
South Atlantic	**0**	**0**	**0**	**5**	**2**	**0**	**3**	**0**
Delaware	0	0	0	31	25	0	0	5
District of Columbia	0	0	0	0	0	0	0	142
Florida	0	0	0	10	4	0	3	0
Georgia	0	0	0	10	4	0	0	0
Maryland	0	0	0	21	4	0	0	1
North Carolina	0	0	0	6	5	0	19	1
South Carolina	0	0	0	96	6	0	25	1
Virginia	0	0	0	154	3	0	6	1
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**37**	**4**	**0**	**11**	**0**
Alabama	0	0	0	0	7	0	0	1
Kentucky	0	0	0	0	6	0	0	1
Mississippi	0	0	0	0	4	0	163	1
Tennessee	0	0	0	37	12	0	0	1
West South Central	**0**	**0**	**0**	**6**	**0**	**0**	**9**	**0**
Arkansas	0	0	0	77	5	0	0	1
Louisiana	0	0	0	0	7	0	11	1
Oklahoma	0	0	0	0	0	0	23	1
Texas	0	0	0	6	0	0	11	0
Mountain	**0**	**9**	**0**	**2**	**1**	**0**	**5**	**1**
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	8	1	0	58	1
Idaho	0	91	0	0	5	0	0	5
Montana	0	0	0	0	4	0	0	5
Nevada	0	10	0	3	6	0	68	1
New Mexico	0	242	0	9	2	0	341	3
Utah	0	21	0	10	8	0	4	3
Wyoming	0	0	0	0	2	0	0	3
Pacific Contiguous	**0**	**7**	**0**	**1**	**1**	**0**	**11**	**1**
California	0	7	0	1	2	0	12	2
Oregon	0	15	0	47	2	0	38	2
Washington	0	0	0	0	1	0	31	1
Pacific Noncontiguous	**0**	**0**	**0**	**38**	**5**	**0**	**4**	**5**
Alaska	0	0	0	0	25	0	1,995	12
Hawaii	0	0	0	38	4	0	0	4
U.S. Total	**0**	**7**	**0**	**1**	**1**	**0**	**3**	**0**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**2**	**61**	**0**	**2**	**0**	**0**	**9**
Connecticut	0	118	0	2	0	0	52
Maine	0	71	0	8	0	0	13
Massachusetts	2	128	0	3	0	0	24
New Hampshire	0	32	0	1	0	0	12
Rhode Island	0	87	0	3	0	0	502
Vermont	0	374	0	0	0	0	30
Middle Atlantic	**3**	**22**	**69**	**1**	**13**	**0**	**3**
New Jersey	0	253	173	2	46	0	238
New York	0	49	0	3	0	0	3
Pennsylvania	3	9	73	2	10	0	10
East North Central	**1**	**3**	**5**	**2**	**7**	**0**	**14**
Illinois	0	3	0	4	33	0	68
Indiana	0	5	0	3	10	0	19
Michigan	4	8	16	3	0	0	27
Ohio	2	7	5	2	21	0	28
Wisconsin	1	24	0	4	0	0	22
West North Central	**1**	**11**	**112**	**6**	**85**	**0**	**7**
Iowa	7	15	112	33	0	0	38
Kansas	0	10	0	36	0	0	242
Minnesota	5	40	0	5	0	0	43
Missouri	0	4	0	8	0	0	13
Nebraska	4	53	0	40	0	0	31
North Dakota	3	26	0	85	85	0	0
South Dakota	0	170	0	34	0	0	0
South Atlantic	**0**	**6**	**0**	**0**	**0**	**0**	**6**
Delaware	0	166	0	5	0	0	0
District of Columbia	0	0	0	142	0	0	0
Florida	1	3	0	1	0	0	74
Georgia	0	5	0	1	0	0	12
Maryland	0	10	0	8	0	0	2
North Carolina	3	44	0	1	0	0	12
South Carolina	0	16	0	4	0	0	17
Virginia	3	5	0	1	0	0	15
West Virginia	0	0	0	2	0	0	24
East South Central	**0**	**6**	**0**	**1**	**87**	**0**	**5**
Alabama	1	76	0	2	128	0	6
Kentucky	1	3	0	4	0	0	7
Mississippi	0	14	0	1	0	0	0
Tennessee	0	4	0	2	0	0	11
West South Central	**0**	**6**	**5**	**1**	**4**	**0**	**5**
Arkansas	0	0	0	2	0	0	9
Louisiana	0	8	4	1	4	0	0
Oklahoma	3	30	0	1	0	0	10
Texas	0	7	71	1	6	0	18
Mountain	**1**	**5**	**0**	**1**	**8**	**0**	**3**
Arizona	0	1	0	1	0	0	2
Colorado	1	311	0	3	0	0	23
Idaho	102	16,830	0	27	0	0	6
Montana	8	60	0	75	0	0	5
Nevada	0	0	0	1	0	0	3
New Mexico	0	11	0	7	0	0	91
Utah	3	13	0	6	0	0	40
Wyoming	4	11	0	38	8	0	15
Pacific Contiguous	**0**	**38**	**0**	**4**	**6**	**0**	**1**
California	0	38	0	4	7	0	6
Oregon	0	28,260	0	10	0	0	2
Washington	0	94	0	14	0	0	1
Pacific Noncontiguous	**6**	**4**	**0**	**21**	**100**	**0**	**23**
Alaska	23	4	0	21	0	0	24
Hawaii	5	5	0	0	100	0	87
U.S. Total	**0**	**4**	**3**	**0**	**3**	**0**	**1**

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through April 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**	**13**	**3**	**0**	**4**	**1**
Connecticut	0	0	0	69	6	0	5	2
Maine	0	0	0	0	1	0	14	5
Massachusetts	0	0	0	13	7	0	5	2
New Hampshire	0	0	0	0	16	0	36	2
Rhode Island	0	0	0	72	8	0	0	3
Vermont	0	0	0	44	16	0	0	20
Middle Atlantic	**0**	**0**	**0**	**9**	**2**	**0**	**4**	**1**
New Jersey	0	0	0	11	6	0	6	1
New York	0	0	0	23	3	0	8	1
Pennsylvania	0	0	0	26	2	0	6	1
East North Central	**0**	**0**	**0**	**16**	**1**	**0**	**7**	**0**
Illinois	0	0	0	31	1	0	24	0
Indiana	0	0	0	22	1	0	3	1
Michigan	0	0	0	101	4	0	10	2
Ohio	0	0	0	32	4	0	45	1
Wisconsin	0	0	0	189	3	0	32	2
West North Central	**0**	**0**	**0**	**65**	**0**	**0**	**10**	**1**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	267	0	0	169	2
Minnesota	0	0	0	122	2	0	11	2
Missouri	0	0	0	79	2	0	943	1
Nebraska	0	0	0	0	1	0	0	2
North Dakota	0	0	0	0	1	0	48	2
South Dakota	0	0	0	0	1	0	0	4
South Atlantic	**0**	**0**	**0**	**5**	**2**	**0**	**3**	**0**
Delaware	0	0	0	31	25	0	0	5
District of Columbia	0	0	0	0	0	0	0	142
Florida	0	0	0	10	4	0	3	0
Georgia	0	0	0	10	4	0	0	0
Maryland	0	0	0	21	4	0	0	1
North Carolina	0	0	0	6	5	0	19	1
South Carolina	0	0	0	96	6	0	25	1
Virginia	0	0	0	154	3	0	6	1
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**37**	**4**	**0**	**11**	**0**
Alabama	0	0	0	0	7	0	0	1
Kentucky	0	0	0	0	6	0	0	1
Mississippi	0	0	0	0	4	0	163	1
Tennessee	0	0	0	37	12	0	0	1
West South Central	**0**	**0**	**0**	**6**	**0**	**0**	**9**	**0**
Arkansas	0	0	0	77	5	0	0	1
Louisiana	0	0	0	0	7	0	11	1
Oklahoma	0	0	0	0	0	0	23	1
Texas	0	0	0	6	0	0	11	0
Mountain	**0**	**9**	**0**	**2**	**1**	**0**	**5**	**1**
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	8	1	0	58	1
Idaho	0	91	0	0	5	0	0	5
Montana	0	0	0	0	4	0	0	5
Nevada	0	10	0	3	6	0	68	1
New Mexico	0	242	0	9	2	0	341	3
Utah	0	21	0	10	8	0	4	3
Wyoming	0	0	0	0	2	0	0	3
Pacific Contiguous	**0**	**7**	**0**	**1**	**1**	**0**	**11**	**1**
California	0	7	0	1	2	0	12	2
Oregon	0	15	0	47	2	0	38	2
Washington	0	0	0	0	1	0	31	1
Pacific Noncontiguous	**0**	**0**	**0**	**38**	**5**	**0**	**4**	**5**
Alaska	0	0	0	0	25	0	1,995	12
Hawaii	0	0	0	38	4	0	0	4
U.S. Total	**0**	**7**	**0**	**1**	**1**	**0**	**3**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**10**	**0**	**11**	**0**	**0**	**24**
Connecticut	0	48	0	0	0	0	183
Maine	0	277	0	0	0	0	0
Massachusetts	0	42	0	13	0	0	73
New Hampshire	0	5	0	0	0	0	18
Rhode Island	0	34	0	0	0	0	0
Vermont	0	267	0	0	0	0	47
Middle Atlantic	**0**	**173**	**0**	**10**	**0**	**0**	**1**
New Jersey	0	448	0	245	0	0	0
New York	0	177	0	9	0	0	1
Pennsylvania	0	104	0	687	0	0	120
East North Central	**1**	**3**	**0**	**3**	**33**	**0**	**15**
Illinois	0	20	0	26	0	0	157
Indiana	0	4	0	4	131	0	19
Michigan	4	5	0	6	0	0	29
Ohio	2	2	0	6	0	0	12
Wisconsin	1	21	0	5	0	0	24
West North Central	**1**	**10**	**0**	**7**	**0**	**0**	**7**
Iowa	8	15	0	36	0	0	38
Kansas	0	10	0	40	0	0	0
Minnesota	5	40	0	5	0	0	57
Missouri	0	4	0	11	0	0	13
Nebraska	4	53	0	41	0	0	31
North Dakota	3	23	0	89	0	0	0
South Dakota	0	174	0	34	0	0	0
South Atlantic	**0**	**8**	**0**	**0**	**0**	**0**	**7**
Delaware	0	240	0	350	0	0	0
Florida	0	2	0	1	0	0	74
Georgia	0	2	0	1	0	0	12
Maryland	0	37	0	0	0	0	0
North Carolina	0	46	0	1	0	0	12
South Carolina	0	21	0	4	0	0	17
Virginia	0	12	0	0	0	0	14
West Virginia	0	0	0	0	0	0	58
East South Central	**0**	**2**	**0**	**2**	**0**	**0**	**5**
Alabama	1	0	0	6	0	0	6
Kentucky	1	3	0	4	0	0	7
Mississippi	0	15	0	1	0	0	0
Tennessee	0	1	0	0	0	0	11
West South Central	**0**	**3**	**0**	**1**	**0**	**0**	**6**
Arkansas	0	0	0	8	0	0	9
Louisiana	0	8	0	1	0	0	0
Oklahoma	0	7	0	2	0	0	10
Texas	0	4	0	2	0	0	17
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**3**
Arizona	0	1	0	2	0	0	2
Colorado	0	314	0	3	0	0	24
Idaho	0	16,830	0	116	0	0	6
Montana	250	332	0	80	0	0	5
Nevada	0	0	0	0	0	0	2
New Mexico	0	11	0	9	0	0	91
Utah	0	1	0	4	0	0	40
Wyoming	3	3	0	157	0	0	14
Pacific Contiguous	**0**	**24**	**0**	**7**	**0**	**0**	**1**
California	0	7	0	8	0	0	5
Oregon	0	0	0	28	0	0	2
Washington	0	1,196	0	17	0	0	1
Pacific Noncontiguous	**0**	**5**	**0**	**21**	**0**	**0**	**24**
Alaska	0	4	0	21	0	0	24
Hawaii	0	5	0	0	0	0	230
U.S. Total	**0**	**4**	**0**	**1**	**33**	**0**	**1**

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

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

Electric Utilities by Census Division and State, April 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**	**73**	**9**	**0**	**0**	**13**
Connecticut	0	0	0	180	180	0	0	138
Maine	0	0	0	0	0	0	0	277
Massachusetts	0	0	0	77	41	0	0	25
New Hampshire	0	0	0	0	0	0	0	13
Rhode Island	0	0	0	0	0	0	0	34
Vermont	0	0	0	0	0	0	0	25
Middle Atlantic	**0**	**0**	**0**	**34**	**34**	**0**	**0**	**3**
New Jersey	0	0	0	34	34	0	0	53
New York	0	0	0	0	0	0	0	3
Pennsylvania	0	0	0	0	0	0	0	150
East North Central	**0**	**0**	**0**	**46**	**2**	**0**	**26**	**1**
Illinois	0	0	0	218	91	0	0	5
Indiana	0	0	0	63	18	0	0	1
Michigan	0	0	0	101	2	0	65	2
Ohio	0	0	0	69	65	0	0	2
Wisconsin	0	0	0	0	1	0	0	2
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**1**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	2
Minnesota	0	0	0	0	3	0	0	2
Missouri	0	0	0	0	50	0	943	1
Nebraska	0	0	0	0	11	0	0	3
North Dakota	0	0	0	0	1	0	48	3
South Dakota	0	0	0	0	1	0	0	5
South Atlantic	**0**	**0**	**0**	**9**	**3**	**0**	**0**	**0**
Delaware	0	0	0	83	83	0	0	302
Florida	0	0	0	7	4	0	0	0
Georgia	0	0	0	19	19	0	0	0
Maryland	0	0	0	71	71	0	0	40
North Carolina	0	0	0	19	19	0	0	0
South Carolina	0	0	0	0	9	0	0	1
Virginia	0	0	0	154	1	0	0	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**46**	**0**	**0**	**1**
Alabama	0	0	0	0	331	0	0	1
Kentucky	0	0	0	0	34	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**	**1**
Arkansas	0	0	0	0	0	0	0	1
Louisiana	0	0	0	0	0	0	0	1
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	0	1	0	0	1
Mountain	**0**	**0**	**0**	**9**	**3**	**0**	**67**	**1**
Arizona	0	0	0	9	9	0	0	1
Colorado	0	0	0	0	11	0	0	1
Idaho	0	0	0	0	5	0	0	6
Montana	0	0	0	0	0	0	0	7
Nevada	0	0	0	69	69	0	68	0
New Mexico	0	0	0	21	21	0	341	4
Utah	0	0	0	0	0	0	0	2
Wyoming	0	0	0	0	1	0	0	3
Pacific Contiguous	**0**	**6**	**0**	**11**	**1**	**0**	**301**	**1**
California	0	0	0	11	3	0	301	3
Oregon	0	249	0	82	2	0	0	2
Washington	0	0	0	0	1	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**54**	**29**	**0**	**2,194**	**7**
Alaska	0	0	0	0	38	0	1,995	13
Hawaii	0	0	0	54	44	0	0	5
U.S. Total	**0**	**5**	**0**	**6**	**0**	**0**	**5**	**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 April 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**10**	**0**	**11**	**0**	**0**	**24**
Connecticut	0	48	0	0	0	0	183
Maine	0	277	0	0	0	0	0
Massachusetts	0	42	0	13	0	0	73
New Hampshire	0	5	0	0	0	0	18
Rhode Island	0	34	0	0	0	0	0
Vermont	0	267	0	0	0	0	47
Middle Atlantic	**0**	**173**	**0**	**10**	**0**	**0**	**1**
New Jersey	0	448	0	245	0	0	0
New York	0	177	0	9	0	0	1
Pennsylvania	0	104	0	687	0	0	120
East North Central	**1**	**3**	**0**	**3**	**33**	**0**	**15**
Illinois	0	20	0	26	0	0	157
Indiana	0	4	0	4	131	0	19
Michigan	4	5	0	6	0	0	29
Ohio	2	2	0	6	0	0	12
Wisconsin	1	21	0	5	0	0	24
West North Central	**1**	**10**	**0**	**7**	**0**	**0**	**7**
Iowa	8	15	0	36	0	0	38
Kansas	0	10	0	40	0	0	0
Minnesota	5	40	0	5	0	0	57
Missouri	0	4	0	11	0	0	13
Nebraska	4	53	0	41	0	0	31
North Dakota	3	23	0	89	0	0	0
South Dakota	0	174	0	34	0	0	0
South Atlantic	**0**	**8**	**0**	**0**	**0**	**0**	**7**
Delaware	0	240	0	350	0	0	0
Florida	0	2	0	1	0	0	74
Georgia	0	2	0	1	0	0	12
Maryland	0	37	0	0	0	0	0
North Carolina	0	46	0	1	0	0	12
South Carolina	0	21	0	4	0	0	17
Virginia	0	12	0	0	0	0	14
West Virginia	0	0	0	0	0	0	58
East South Central	**0**	**2**	**0**	**2**	**0**	**0**	**5**
Alabama	1	0	0	6	0	0	6
Kentucky	1	3	0	4	0	0	7
Mississippi	0	15	0	1	0	0	0
Tennessee	0	1	0	0	0	0	11
West South Central	**0**	**3**	**0**	**1**	**0**	**0**	**6**
Arkansas	0	0	0	8	0	0	9
Louisiana	0	8	0	1	0	0	0
Oklahoma	0	7	0	2	0	0	10
Texas	0	4	0	2	0	0	17
Mountain	**1**	**4**	**0**	**1**	**0**	**0**	**3**
Arizona	0	1	0	2	0	0	2
Colorado	0	314	0	3	0	0	24
Idaho	0	16,830	0	116	0	0	6
Montana	250	332	0	80	0	0	5
Nevada	0	0	0	0	0	0	2
New Mexico	0	11	0	9	0	0	91
Utah	0	1	0	4	0	0	40
Wyoming	3	3	0	157	0	0	14
Pacific Contiguous	**0**	**24**	**0**	**7**	**0**	**0**	**1**
California	0	7	0	8	0	0	5
Oregon	0	0	0	28	0	0	2
Washington	0	1,196	0	17	0	0	1
Pacific Noncontiguous	**0**	**5**	**0**	**21**	**0**	**0**	**24**
Alaska	0	4	0	21	0	0	24
Hawaii	0	5	0	0	0	0	230
U.S. Total	**0**	**4**	**0**	**1**	**33**	**0**	**1**

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

Electric Utilities by Census Division and State, Year-to-Date through April 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**	**73**	**9**	**0**	**0**	**13**
Connecticut	0	0	0	180	180	0	0	138
Maine	0	0	0	0	0	0	0	277
Massachusetts	0	0	0	77	41	0	0	25
New Hampshire	0	0	0	0	0	0	0	13
Rhode Island	0	0	0	0	0	0	0	34
Vermont	0	0	0	0	0	0	0	25
Middle Atlantic	**0**	**0**	**0**	**34**	**34**	**0**	**0**	**3**
New Jersey	0	0	0	34	34	0	0	53
New York	0	0	0	0	0	0	0	3
Pennsylvania	0	0	0	0	0	0	0	150
East North Central	**0**	**0**	**0**	**46**	**2**	**0**	**26**	**1**
Illinois	0	0	0	218	91	0	0	5
Indiana	0	0	0	63	18	0	0	1
Michigan	0	0	0	101	2	0	65	2
Ohio	0	0	0	69	65	0	0	2
Wisconsin	0	0	0	0	1	0	0	2
West North Central	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**1**
Iowa	0	0	0	0	0	0	0	3
Kansas	0	0	0	0	0	0	0	2
Minnesota	0	0	0	0	3	0	0	2
Missouri	0	0	0	0	50	0	943	1
Nebraska	0	0	0	0	11	0	0	3
North Dakota	0	0	0	0	1	0	48	3
South Dakota	0	0	0	0	1	0	0	5
South Atlantic	**0**	**0**	**0**	**9**	**3**	**0**	**0**	**0**
Delaware	0	0	0	83	83	0	0	302
Florida	0	0	0	7	4	0	0	0
Georgia	0	0	0	19	19	0	0	0
Maryland	0	0	0	71	71	0	0	40
North Carolina	0	0	0	19	19	0	0	0
South Carolina	0	0	0	0	9	0	0	1
Virginia	0	0	0	154	1	0	0	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**46**	**0**	**0**	**1**
Alabama	0	0	0	0	331	0	0	1
Kentucky	0	0	0	0	34	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**	**1**
Arkansas	0	0	0	0	0	0	0	1
Louisiana	0	0	0	0	0	0	0	1
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	0	1	0	0	1
Mountain	**0**	**0**	**0**	**9**	**3**	**0**	**67**	**1**
Arizona	0	0	0	9	9	0	0	1
Colorado	0	0	0	0	11	0	0	1
Idaho	0	0	0	0	5	0	0	6
Montana	0	0	0	0	0	0	0	7
Nevada	0	0	0	69	69	0	68	0
New Mexico	0	0	0	21	21	0	341	4
Utah	0	0	0	0	0	0	0	2
Wyoming	0	0	0	0	1	0	0	3
Pacific Contiguous	**0**	**6**	**0**	**11**	**1**	**0**	**301**	**1**
California	0	0	0	11	3	0	301	3
Oregon	0	249	0	82	2	0	0	2
Washington	0	0	0	0	1	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**54**	**29**	**0**	**2,194**	**7**
Alaska	0	0	0	0	38	0	1,995	13
Hawaii	0	0	0	54	44	0	0	5
U.S. Total	**0**	**5**	**0**	**6**	**0**	**0**	**5**	**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, April 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**132**	**0**	**1**	**0**	**0**	**10**
Connecticut	0	121	0	2	0	0	54
Maine	0	55	0	1	0	0	14
Massachusetts	0	252	0	3	0	0	24
New Hampshire	0	365	0	0	0	0	14
Rhode Island	0	0	0	3	0	0	502
Vermont	0	0	0	0	0	0	38
Middle Atlantic	**3**	**19**	**0**	**1**	**0**	**0**	**10**
New Jersey	0	271	0	2	0	0	238
New York	0	57	0	3	0	0	15
Pennsylvania	3	9	0	2	0	0	10
East North Central	**1**	**8**	**0**	**1**	**8**	**0**	**44**
Illinois	0	0	0	3	0	0	60
Indiana	1	5,543	0	4	0	0	0
Michigan	13	0	0	3	0	0	87
Ohio	3	13	0	1	23	0	71
Wisconsin	0	0	0	1	0	0	110
West North Central	**165**	**35**	**0**	**4**	**0**	**0**	**73**
Iowa	0	128	0	2,108	0	0	435
Kansas	0	0	0	0	0	0	242
Minnesota	0	28	0	8	0	0	77
Missouri	165	0	0	3	0	0	0
South Dakota	0	473	0	0	0	0	0
South Atlantic	**3**	**7**	**0**	**2**	**0**	**0**	**8**
Delaware	0	210	0	5	0	0	0
Florida	0	87	0	5	0	0	0
Georgia	0	886	0	2	0	0	278
Maryland	0	10	0	8	0	0	2
North Carolina	75	129	0	0	0	0	139
South Carolina	0	395	0	10	0	0	113
Virginia	122	5	0	5	0	0	132
West Virginia	2	0	0	2	0	0	8
East South Central	**0**	**89**	**0**	**1**	**0**	**0**	**387**
Alabama	0	139	0	1	0	0	0
Kentucky	0	0	0	0	0	0	387
Mississippi	0	0	0	0	0	0	0
Tennessee	0	115	0	861	0	0	0
West South Central	**0**	**0**	**0**	**1**	**0**	**0**	**7**
Arkansas	0	0	0	0	0	0	238
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	2	0	0	0
Texas	0	0	0	1	0	0	184
Mountain	**9**	**41**	**0**	**5**	**0**	**0**	**22**
Arizona	0	0	0	1	0	0	0
Colorado	246	0	0	21	0	0	77
Idaho	0	0	0	16	0	0	22
Montana	7	15	0	223	0	0	88
Nevada	0	0	0	15	0	0	174
New Mexico	0	0	0	6	0	0	0
Utah	184	1,369	0	123	0	0	391
Wyoming	156	0	0	1,137	0	0	344
Pacific Contiguous	**0**	**100**	**0**	**4**	**0**	**0**	**25**
California	0	111	0	4	0	0	32
Oregon	0	0	0	6	0	0	62
Washington	0	89	0	0	0	0	49
Pacific Noncontiguous	**4**	**12**	**0**	**0**	**0**	**0**	**0**
Alaska	64	0	0	0	0	0	0
Hawaii	0	12	0	0	0	0	0
U.S. Total	**1**	**9**	**0**	**1**	**5**	**0**	**6**

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

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

Independent Power Producers by Census Division and State, April 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**	**13**	**4**	**0**	**4**	**1**
Connecticut	0	0	0	74	6	0	5	1
Maine	0	0	0	0	2	0	9	5
Massachusetts	0	0	0	14	8	0	5	2
New Hampshire	0	0	0	0	16	0	36	2
Rhode Island	0	0	0	72	6	0	0	3
Vermont	0	0	0	44	32	0	0	29
Middle Atlantic	**0**	**0**	**0**	**10**	**2**	**0**	**4**	**1**
New Jersey	0	0	0	12	7	0	8	1
New York	0	0	0	23	3	0	5	2
Pennsylvania	0	0	0	29	2	0	7	1
East North Central	**0**	**0**	**0**	**17**	**1**	**0**	**17**	**0**
Illinois	0	0	0	29	1	0	0	0
Indiana	0	0	0	23	1	0	0	1
Michigan	0	0	0	0	5	0	16	2
Ohio	0	0	0	37	4	0	74	2
Wisconsin	0	0	0	189	7	0	0	1
West North Central	**0**	**0**	**0**	**67**	**0**	**0**	**22**	**1**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	267	0	0	0	0
Minnesota	0	0	0	122	2	0	22	2
Missouri	0	0	0	82	2	0	0	2
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	2	0	0	2
South Atlantic	**0**	**0**	**0**	**6**	**3**	**0**	**4**	**1**
Delaware	0	0	0	34	27	0	0	5
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	32	6	0	5	4
Georgia	0	0	0	10	10	0	0	2
Maryland	0	0	0	22	4	0	0	1
North Carolina	0	0	0	7	6	0	19	5
South Carolina	0	0	0	96	45	0	142	11
Virginia	0	0	0	0	8	0	0	5
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**38**	**10**	**0**	**0**	**1**
Alabama	0	0	0	0	8	0	0	1
Kentucky	0	0	0	0	146	0	0	180
Mississippi	0	0	0	0	91	0	0	0
Tennessee	0	0	0	38	21	0	0	34
West South Central	**0**	**0**	**0**	**7**	**0**	**0**	**22**	**0**
Arkansas	0	0	0	77	27	0	0	0
Louisiana	0	0	0	0	34	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	6	0	0	89	0
Mountain	**0**	**10**	**0**	**2**	**1**	**0**	**3**	**2**
Arizona	0	0	0	2	2	0	0	1
Colorado	0	0	0	8	1	0	130	3
Idaho	0	91	0	0	6	0	0	7
Montana	0	0	0	0	4	0	0	6
Nevada	0	10	0	2	6	0	0	5
New Mexico	0	242	0	8	2	0	0	2
Utah	0	36	0	10	9	0	197	32
Wyoming	0	0	0	0	3	0	0	28
Pacific Contiguous	**0**	**8**	**0**	**1**	**2**	**0**	**12**	**2**
California	0	8	0	1	2	0	12	2
Oregon	0	0	0	53	2	0	38	3
Washington	0	0	0	0	1	0	31	4
Pacific Noncontiguous	**0**	**0**	**0**	**49**	**4**	**0**	**0**	**4**
Alaska	0	0	0	0	52	0	0	45
Hawaii	0	0	0	49	4	0	0	4
U.S. Total	**0**	**7**	**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 April 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**132**	**0**	**1**	**0**	**0**	**10**
Connecticut	0	121	0	2	0	0	54
Maine	0	55	0	1	0	0	14
Massachusetts	0	252	0	3	0	0	24
New Hampshire	0	365	0	0	0	0	14
Rhode Island	0	0	0	3	0	0	502
Vermont	0	0	0	0	0	0	38
Middle Atlantic	**3**	**19**	**0**	**1**	**0**	**0**	**10**
New Jersey	0	271	0	2	0	0	238
New York	0	57	0	3	0	0	15
Pennsylvania	3	9	0	2	0	0	10
East North Central	**1**	**8**	**0**	**1**	**8**	**0**	**44**
Illinois	0	0	0	3	0	0	60
Indiana	1	5,543	0	4	0	0	0
Michigan	13	0	0	3	0	0	87
Ohio	3	13	0	1	23	0	71
Wisconsin	0	0	0	1	0	0	110
West North Central	**165**	**35**	**0**	**4**	**0**	**0**	**73**
Iowa	0	128	0	2,108	0	0	435
Kansas	0	0	0	0	0	0	242
Minnesota	0	28	0	8	0	0	77
Missouri	165	0	0	3	0	0	0
South Dakota	0	473	0	0	0	0	0
South Atlantic	**3**	**7**	**0**	**2**	**0**	**0**	**8**
Delaware	0	210	0	5	0	0	0
Florida	0	87	0	5	0	0	0
Georgia	0	886	0	2	0	0	278
Maryland	0	10	0	8	0	0	2
North Carolina	75	129	0	0	0	0	139
South Carolina	0	395	0	10	0	0	113
Virginia	122	5	0	5	0	0	132
West Virginia	2	0	0	2	0	0	8
East South Central	**0**	**89**	**0**	**1**	**0**	**0**	**387**
Alabama	0	139	0	1	0	0	0
Kentucky	0	0	0	0	0	0	387
Mississippi	0	0	0	0	0	0	0
Tennessee	0	115	0	861	0	0	0
West South Central	**0**	**0**	**0**	**1**	**0**	**0**	**7**
Arkansas	0	0	0	0	0	0	238
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	2	0	0	0
Texas	0	0	0	1	0	0	184
Mountain	**9**	**41**	**0**	**5**	**0**	**0**	**22**
Arizona	0	0	0	1	0	0	0
Colorado	246	0	0	21	0	0	77
Idaho	0	0	0	16	0	0	22
Montana	7	15	0	223	0	0	88
Nevada	0	0	0	15	0	0	174
New Mexico	0	0	0	6	0	0	0
Utah	184	1,369	0	123	0	0	391
Wyoming	156	0	0	1,137	0	0	344
Pacific Contiguous	**0**	**100**	**0**	**4**	**0**	**0**	**25**
California	0	111	0	4	0	0	32
Oregon	0	0	0	6	0	0	62
Washington	0	89	0	0	0	0	49
Pacific Noncontiguous	**4**	**12**	**0**	**0**	**0**	**0**	**0**
Alaska	64	0	0	0	0	0	0
Hawaii	0	12	0	0	0	0	0
U.S. Total	**1**	**9**	**0**	**1**	**5**	**0**	**6**

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

Independent Power Producers by Census Division and State, Year-to-Date through April 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**	**13**	**4**	**0**	**4**	**1**
Connecticut	0	0	0	74	6	0	5	1
Maine	0	0	0	0	2	0	9	5
Massachusetts	0	0	0	14	8	0	5	2
New Hampshire	0	0	0	0	16	0	36	2
Rhode Island	0	0	0	72	6	0	0	3
Vermont	0	0	0	44	32	0	0	29
Middle Atlantic	**0**	**0**	**0**	**10**	**2**	**0**	**4**	**1**
New Jersey	0	0	0	12	7	0	8	1
New York	0	0	0	23	3	0	5	2
Pennsylvania	0	0	0	29	2	0	7	1
East North Central	**0**	**0**	**0**	**17**	**1**	**0**	**17**	**0**
Illinois	0	0	0	29	1	0	0	0
Indiana	0	0	0	23	1	0	0	1
Michigan	0	0	0	0	5	0	16	2
Ohio	0	0	0	37	4	0	74	2
Wisconsin	0	0	0	189	7	0	0	1
West North Central	**0**	**0**	**0**	**67**	**0**	**0**	**22**	**1**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	267	0	0	0	0
Minnesota	0	0	0	122	2	0	22	2
Missouri	0	0	0	82	2	0	0	2
Nebraska	0	0	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	2	0	0	2
South Atlantic	**0**	**0**	**0**	**6**	**3**	**0**	**4**	**1**
Delaware	0	0	0	34	27	0	0	5
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	32	6	0	5	4
Georgia	0	0	0	10	10	0	0	2
Maryland	0	0	0	22	4	0	0	1
North Carolina	0	0	0	7	6	0	19	5
South Carolina	0	0	0	96	45	0	142	11
Virginia	0	0	0	0	8	0	0	5
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**38**	**10**	**0**	**0**	**1**
Alabama	0	0	0	0	8	0	0	1
Kentucky	0	0	0	0	146	0	0	180
Mississippi	0	0	0	0	91	0	0	0
Tennessee	0	0	0	38	21	0	0	34
West South Central	**0**	**0**	**0**	**7**	**0**	**0**	**22**	**0**
Arkansas	0	0	0	77	27	0	0	0
Louisiana	0	0	0	0	34	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	6	0	0	89	0
Mountain	**0**	**10**	**0**	**2**	**1**	**0**	**3**	**2**
Arizona	0	0	0	2	2	0	0	1
Colorado	0	0	0	8	1	0	130	3
Idaho	0	91	0	0	6	0	0	7
Montana	0	0	0	0	4	0	0	6
Nevada	0	10	0	2	6	0	0	5
New Mexico	0	242	0	8	2	0	0	2
Utah	0	36	0	10	9	0	197	32
Wyoming	0	0	0	0	3	0	0	28
Pacific Contiguous	**0**	**8**	**0**	**1**	**2**	**0**	**12**	**2**
California	0	8	0	1	2	0	12	2
Oregon	0	0	0	53	2	0	38	3
Washington	0	0	0	0	1	0	31	4
Pacific Noncontiguous	**0**	**0**	**0**	**49**	**4**	**0**	**0**	**4**
Alaska	0	0	0	0	52	0	0	45
Hawaii	0	0	0	49	4	0	0	4
U.S. Total	**0**	**7**	**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, April 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**91**	**0**	**28**	**0**	**0**	**444**
Connecticut	0	1,008	0	58	0	0	0
Maine	0	592	0	231	0	0	0
Massachusetts	0	66	0	26	0	0	444
New Hampshire	0	241	0	294	0	0	0
Rhode Island	0	234	0	153	0	0	0
Vermont	0	1,121	0	0	0	0	0
Middle Atlantic	**292**	**68**	**0**	**25**	**0**	**0**	**509**
New Jersey	0	344	0	79	0	0	0
New York	0	59	0	26	0	0	509
Pennsylvania	292	514	0	83	0	0	0
East North Central	**44**	**83**	**0**	**28**	**0**	**0**	**587**
Illinois	42	6	0	44	0	0	587
Indiana	131	1,085	0	43	0	0	0
Michigan	0	205	0	45	0	0	0
Ohio	429	294	0	87	0	0	0
Wisconsin	587	293	0	116	0	0	0
West North Central	**56**	**141**	**0**	**59**	**0**	**0**	**0**
Iowa	65	348	0	123	0	0	0
Minnesota	683	150	0	111	0	0	0
Missouri	0	304	0	0	0	0	0
Nebraska	0	0	0	785	0	0	0
North Dakota	0	363	0	0	0	0	0
South Dakota	0	757	0	0	0	0	0
South Atlantic	**115**	**120**	**0**	**43**	**0**	**0**	**141**
District of Columbia	0	0	0	142	0	0	0
Florida	0	0	0	141	0	0	0
Georgia	0	71	0	0	0	0	0
Maryland	0	1,160	0	50	0	0	0
North Carolina	0	326	0	0	0	0	128
South Carolina	0	1,129	0	234	0	0	607
Virginia	489	188	0	440	0	0	0
East South Central	**0**	**599**	**0**	**91**	**0**	**0**	**0**
Mississippi	0	0	0	265	0	0	0
Tennessee	0	599	0	97	0	0	0
West South Central	**0**	**1,134**	**0**	**31**	**0**	**0**	**0**
Arkansas	0	0	0	689	0	0	0
Louisiana	0	0	0	95	0	0	0
Oklahoma	0	29,503	0	159	0	0	0
Texas	0	1,089	0	32	0	0	0
Mountain	**0**	**712**	**0**	**46**	**0**	**0**	**400**
Arizona	0	712	0	78	0	0	0
Colorado	0	0	0	0	0	0	400
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	113	0	0	0
New Mexico	0	0	0	87	0	0	0
Utah	0	0	0	99	0	0	0
Pacific Contiguous	**0**	**927**	**0**	**24**	**0**	**0**	**267**
California	0	956	0	23	0	0	267
Oregon	0	28,260	0	175	0	0	0
Washington	0	645	0	262	0	0	0
Pacific Noncontiguous	**39**	**116**	**0**	**318**	**0**	**0**	**0**
Alaska	39	197	0	318	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**31**	**53**	**0**	**12**	**0**	**0**	**138**

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, April 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**	**102**	**27**	**0**	**41**	**21**
Connecticut	0	0	0	0	0	0	0	58
Maine	0	0	0	0	32	0	41	33
Massachusetts	0	0	0	102	68	0	0	24
New Hampshire	0	0	0	0	52	0	0	84
Rhode Island	0	0	0	0	134	0	0	121
Vermont	0	0	0	0	231	0	0	238
Middle Atlantic	**0**	**0**	**0**	**22**	**9**	**0**	**12**	**12**
New Jersey	0	0	0	23	12	0	0	21
New York	0	0	0	243	21	0	27	17
Pennsylvania	0	0	0	103	12	0	0	28
East North Central	**0**	**0**	**0**	**120**	**14**	**0**	**15**	**21**
Illinois	0	0	0	0	189	0	0	37
Indiana	0	0	0	0	70	0	90	36
Michigan	0	0	0	0	10	0	15	29
Ohio	0	0	0	120	166	0	0	81
Wisconsin	0	0	0	0	42	0	0	86
West North Central	**0**	**0**	**0**	**267**	**23**	**0**	**61**	**35**
Iowa	0	0	0	0	51	0	0	63
Minnesota	0	0	0	0	47	0	61	73
Missouri	0	0	0	267	13	0	0	3
Nebraska	0	0	0	0	71	0	0	101
North Dakota	0	0	0	0	0	0	0	363
South Dakota	0	0	0	0	0	0	0	757
South Atlantic	**0**	**0**	**0**	**25**	**11**	**0**	**14**	**19**
Delaware	0	0	0	158	129	0	0	129
District of Columbia	0	0	0	0	0	0	0	142
Florida	0	0	0	159	48	0	0	86
Georgia	0	0	0	124	85	0	0	74
Maryland	0	0	0	109	63	0	0	47
North Carolina	0	0	0	27	21	0	0	17
South Carolina	0	0	0	0	0	0	0	218
Virginia	0	0	0	0	10	0	14	16
East South Central	**0**	**0**	**0**	**125**	**125**	**0**	**0**	**89**
Mississippi	0	0	0	0	0	0	0	265
Tennessee	0	0	0	125	125	0	0	94
West South Central	**0**	**0**	**0**	**138**	**44**	**0**	**0**	**28**
Arkansas	0	0	0	0	144	0	0	301
Louisiana	0	0	0	0	0	0	0	95
Oklahoma	0	0	0	0	0	0	0	159
Texas	0	0	0	138	46	0	0	29
Mountain	**0**	**0**	**0**	**28**	**27**	**0**	**0**	**33**
Arizona	0	0	0	44	44	0	0	64
Colorado	0	0	0	59	54	0	0	113
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	38	38	0	0	49
New Mexico	0	0	0	0	164	0	0	84
Utah	0	0	0	0	0	0	0	99
Pacific Contiguous	**0**	**0**	**0**	**25**	**10**	**0**	**0**	**16**
California	0	0	0	25	10	0	0	15
Oregon	0	0	0	0	68	0	0	145
Washington	0	0	0	0	68	0	0	167
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**9**
Alaska	0	0	0	0	41	0	0	36
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**12**	**6**	**0**	**7**	**7**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**91**	**0**	**28**	**0**	**0**	**444**
Connecticut	0	1,008	0	58	0	0	0
Maine	0	592	0	231	0	0	0
Massachusetts	0	66	0	26	0	0	444
New Hampshire	0	241	0	294	0	0	0
Rhode Island	0	234	0	153	0	0	0
Vermont	0	1,121	0	0	0	0	0
Middle Atlantic	**292**	**68**	**0**	**25**	**0**	**0**	**509**
New Jersey	0	344	0	79	0	0	0
New York	0	59	0	26	0	0	509
Pennsylvania	292	514	0	83	0	0	0
East North Central	**44**	**83**	**0**	**28**	**0**	**0**	**587**
Illinois	42	6	0	44	0	0	587
Indiana	131	1,085	0	43	0	0	0
Michigan	0	205	0	45	0	0	0
Ohio	429	294	0	87	0	0	0
Wisconsin	587	293	0	116	0	0	0
West North Central	**56**	**141**	**0**	**59**	**0**	**0**	**0**
Iowa	65	348	0	123	0	0	0
Minnesota	683	150	0	111	0	0	0
Missouri	0	304	0	0	0	0	0
Nebraska	0	0	0	785	0	0	0
North Dakota	0	363	0	0	0	0	0
South Dakota	0	757	0	0	0	0	0
South Atlantic	**115**	**120**	**0**	**43**	**0**	**0**	**141**
District of Columbia	0	0	0	142	0	0	0
Florida	0	0	0	141	0	0	0
Georgia	0	71	0	0	0	0	0
Maryland	0	1,160	0	50	0	0	0
North Carolina	0	326	0	0	0	0	128
South Carolina	0	1,129	0	234	0	0	607
Virginia	489	188	0	440	0	0	0
East South Central	**0**	**599**	**0**	**91**	**0**	**0**	**0**
Mississippi	0	0	0	265	0	0	0
Tennessee	0	599	0	97	0	0	0
West South Central	**0**	**1,134**	**0**	**31**	**0**	**0**	**0**
Arkansas	0	0	0	689	0	0	0
Louisiana	0	0	0	95	0	0	0
Oklahoma	0	29,503	0	159	0	0	0
Texas	0	1,089	0	32	0	0	0
Mountain	**0**	**712**	**0**	**46**	**0**	**0**	**400**
Arizona	0	712	0	78	0	0	0
Colorado	0	0	0	0	0	0	400
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	113	0	0	0
New Mexico	0	0	0	87	0	0	0
Utah	0	0	0	99	0	0	0
Pacific Contiguous	**0**	**927**	**0**	**24**	**0**	**0**	**267**
California	0	956	0	23	0	0	267
Oregon	0	28,260	0	175	0	0	0
Washington	0	645	0	262	0	0	0
Pacific Noncontiguous	**39**	**116**	**0**	**318**	**0**	**0**	**0**
Alaska	39	197	0	318	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**31**	**53**	**0**	**12**	**0**	**0**	**138**

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 April 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**	**102**	**27**	**0**	**41**	**21**
Connecticut	0	0	0	0	0	0	0	58
Maine	0	0	0	0	32	0	41	33
Massachusetts	0	0	0	102	68	0	0	24
New Hampshire	0	0	0	0	52	0	0	84
Rhode Island	0	0	0	0	134	0	0	121
Vermont	0	0	0	0	231	0	0	238
Middle Atlantic	**0**	**0**	**0**	**22**	**9**	**0**	**12**	**12**
New Jersey	0	0	0	23	12	0	0	21
New York	0	0	0	243	21	0	27	17
Pennsylvania	0	0	0	103	12	0	0	28
East North Central	**0**	**0**	**0**	**120**	**14**	**0**	**15**	**21**
Illinois	0	0	0	0	189	0	0	37
Indiana	0	0	0	0	70	0	90	36
Michigan	0	0	0	0	10	0	15	29
Ohio	0	0	0	120	166	0	0	81
Wisconsin	0	0	0	0	42	0	0	86
West North Central	**0**	**0**	**0**	**267**	**23**	**0**	**61**	**35**
Iowa	0	0	0	0	51	0	0	63
Minnesota	0	0	0	0	47	0	61	73
Missouri	0	0	0	267	13	0	0	3
Nebraska	0	0	0	0	71	0	0	101
North Dakota	0	0	0	0	0	0	0	363
South Dakota	0	0	0	0	0	0	0	757
South Atlantic	**0**	**0**	**0**	**25**	**11**	**0**	**14**	**19**
Delaware	0	0	0	158	129	0	0	129
District of Columbia	0	0	0	0	0	0	0	142
Florida	0	0	0	159	48	0	0	86
Georgia	0	0	0	124	85	0	0	74
Maryland	0	0	0	109	63	0	0	47
North Carolina	0	0	0	27	21	0	0	17
South Carolina	0	0	0	0	0	0	0	218
Virginia	0	0	0	0	10	0	14	16
East South Central	**0**	**0**	**0**	**125**	**125**	**0**	**0**	**89**
Mississippi	0	0	0	0	0	0	0	265
Tennessee	0	0	0	125	125	0	0	94
West South Central	**0**	**0**	**0**	**138**	**44**	**0**	**0**	**28**
Arkansas	0	0	0	0	144	0	0	301
Louisiana	0	0	0	0	0	0	0	95
Oklahoma	0	0	0	0	0	0	0	159
Texas	0	0	0	138	46	0	0	29
Mountain	**0**	**0**	**0**	**28**	**27**	**0**	**0**	**33**
Arizona	0	0	0	44	44	0	0	64
Colorado	0	0	0	59	54	0	0	113
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	38	38	0	0	49
New Mexico	0	0	0	0	164	0	0	84
Utah	0	0	0	0	0	0	0	99
Pacific Contiguous	**0**	**0**	**0**	**25**	**10**	**0**	**0**	**16**
California	0	0	0	25	10	0	0	15
Oregon	0	0	0	0	68	0	0	145
Washington	0	0	0	0	68	0	0	167
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**9**
Alaska	0	0	0	0	41	0	0	36
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**12**	**6**	**0**	**7**	**7**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**94**	**123**	**0**	**31**	**0**	**0**	**27**
Connecticut	0	465	0	53	0	0	0
Maine	0	72	0	39	0	0	26
Massachusetts	167	750	0	86	0	0	425
New Hampshire	0	452	0	211	0	0	0
Middle Atlantic	**16**	**19**	**69**	**25**	**13**	**0**	**134**
New Jersey	0	985	173	58	46	0	0
New York	0	18	0	40	0	0	134
Pennsylvania	36	56	73	32	10	0	0
East North Central	**8**	**24**	**51**	**23**	**10**	**0**	**81**
Illinois	8	2,819	0	51	33	0	0
Indiana	198	5	0	29	10	0	0
Michigan	93	339	78	49	0	0	208
Ohio	26	181	468	147	40	0	0
Wisconsin	18	317	0	48	0	0	88
West North Central	**13**	**470**	**116**	**50**	**85**	**0**	**0**
Iowa	13	440	116	110	0	0	0
Kansas	0	0	0	71	0	0	0
Minnesota	32	600	0	89	0	0	0
Missouri	117	0	0	462	0	0	0
Nebraska	44	0	0	166	0	0	0
North Dakota	93	978	0	293	85	0	0
South Atlantic	**31**	**20**	**0**	**9**	**0**	**0**	**14**
Delaware	0	0	0	0	0	0	0
Florida	155	56	0	20	0	0	0
Georgia	32	28	0	25	0	0	237
Maryland	0	238	0	77	0	0	0
North Carolina	145	189	0	55	0	0	782
South Carolina	43	0	0	46	0	0	0
Virginia	52	51	0	25	0	0	312
West Virginia	0	0	0	0	0	0	9
East South Central	**0**	**92**	**0**	**16**	**87**	**0**	**0**
Alabama	0	104	0	19	128	0	0
Kentucky	0	0	0	66	0	0	0
Mississippi	0	0	0	50	0	0	0
Tennessee	0	261	0	18	0	0	0
West South Central	**99**	**98**	**59**	**2**	**5**	**0**	**0**
Arkansas	0	0	0	23	0	0	0
Louisiana	0	0	68	3	4	0	0
Oklahoma	108	868	0	85	0	0	0
Texas	0	346	71	3	13	0	0
Mountain	**14**	**142**	**0**	**22**	**8**	**0**	**0**
Colorado	752	757	0	207	0	0	0
Idaho	102	0	0	90	0	0	0
Montana	274	0	0	0	0	0	0
Nevada	0	0	0	58	0	0	0
New Mexico	0	348	0	149	0	0	0
Utah	0	1,445	0	44	0	0	0
Wyoming	43	143	0	28	8	0	0
Pacific Contiguous	**0**	**101**	**0**	**7**	**7**	**0**	**0**
California	0	540	0	7	7	0	0
Oregon	0	0	0	49	0	0	0
Washington	0	87	0	0	0	0	0
Pacific Noncontiguous	**321**	**48**	**0**	**199**	**100**	**0**	**151**
Alaska	0	18	0	199	0	0	0
Hawaii	321	77	0	0	100	0	151
U.S. Total	**7**	**18**	**33**	**2**	**4**	**0**	**18**

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

Industrial Sector by Census Division and State, April 2016 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**0**	**3**	**0**	**33**	**13**
Connecticut	0	0	0	0	0	0	0	53
Maine	0	0	0	0	3	0	33	12
Massachusetts	0	0	0	0	212	0	0	76
New Hampshire	0	0	0	0	0	0	0	210
Middle Atlantic	**0**	**0**	**0**	**68**	**13**	**0**	**0**	**11**
New Jersey	0	0	0	195	195	0	0	39
New York	0	0	0	0	3	0	0	15
Pennsylvania	0	0	0	73	17	0	0	14
East North Central	**0**	**0**	**0**	**218**	**8**	**0**	**9**	**6**
Illinois	0	0	0	0	0	0	24	10
Indiana	0	0	0	0	38	0	0	8
Michigan	0	0	0	0	13	0	0	23
Ohio	0	0	0	218	12	0	0	17
Wisconsin	0	0	0	0	12	0	45	15
West North Central	**0**	**0**	**0**	**0**	**13**	**0**	**48**	**13**
Iowa	0	0	0	0	33	0	0	16
Kansas	0	0	0	0	88	0	169	66
Minnesota	0	0	0	0	14	0	50	20
Missouri	0	0	0	0	129	0	0	104
Nebraska	0	0	0	0	0	0	0	44
North Dakota	0	0	0	0	65	0	0	63
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**4**	**3**
Delaware	0	0	0	0	80	0	0	1
Florida	0	0	0	0	7	0	5	7
Georgia	0	0	0	0	4	0	0	4
Maryland	0	0	0	0	0	0	0	23
North Carolina	0	0	0	0	8	0	0	18
South Carolina	0	0	0	0	1	0	0	4
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**	**5**	**0**	**38**	**5**
Alabama	0	0	0	0	7	0	0	7
Kentucky	0	0	0	0	2	0	0	20
Mississippi	0	0	0	0	4	0	163	11
Tennessee	0	0	0	0	14	0	0	6
West South Central	**0**	**0**	**0**	**0**	**5**	**0**	**9**	**2**
Arkansas	0	0	0	0	4	0	0	6
Louisiana	0	0	0	0	7	0	11	2
Oklahoma	0	0	0	0	26	0	76	45
Texas	0	0	0	0	12	0	11	3
Mountain	**0**	**0**	**0**	**132**	**4**	**0**	**12**	**10**
Colorado	0	0	0	0	157	0	63	93
Idaho	0	0	0	0	2	0	0	14
Montana	0	0	0	0	119	0	0	130
Nevada	0	0	0	132	132	0	0	57
New Mexico	0	0	0	0	0	0	0	149
Utah	0	0	0	0	0	0	0	13
Wyoming	0	0	0	0	0	0	0	16
Pacific Contiguous	**0**	**0**	**0**	**102**	**8**	**0**	**16**	**5**
California	0	0	0	102	19	0	16	6
Oregon	0	0	0	0	15	0	0	20
Washington	0	0	0	0	8	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**27**	**0**	**0**	**43**
Alaska	0	0	0	0	91	0	0	111
Hawaii	0	0	0	0	28	0	0	44
U.S. Total	**0**	**0**	**0**	**57**	**2**	**0**	**5**	**2**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**94**	**123**	**0**	**31**	**0**	**0**	**27**
Connecticut	0	465	0	53	0	0	0
Maine	0	72	0	39	0	0	26
Massachusetts	167	750	0	86	0	0	425
New Hampshire	0	452	0	211	0	0	0
Middle Atlantic	**16**	**19**	**69**	**25**	**13**	**0**	**134**
New Jersey	0	985	173	58	46	0	0
New York	0	18	0	40	0	0	134
Pennsylvania	36	56	73	32	10	0	0
East North Central	**8**	**24**	**51**	**23**	**10**	**0**	**81**
Illinois	8	2,819	0	51	33	0	0
Indiana	198	5	0	29	10	0	0
Michigan	93	339	78	49	0	0	208
Ohio	26	181	468	147	40	0	0
Wisconsin	18	317	0	48	0	0	88
West North Central	**13**	**470**	**116**	**50**	**85**	**0**	**0**
Iowa	13	440	116	110	0	0	0
Kansas	0	0	0	71	0	0	0
Minnesota	32	600	0	89	0	0	0
Missouri	117	0	0	462	0	0	0
Nebraska	44	0	0	166	0	0	0
North Dakota	93	978	0	293	85	0	0
South Atlantic	**31**	**20**	**0**	**9**	**0**	**0**	**14**
Delaware	0	0	0	0	0	0	0
Florida	155	56	0	20	0	0	0
Georgia	32	28	0	25	0	0	237
Maryland	0	238	0	77	0	0	0
North Carolina	145	189	0	55	0	0	782
South Carolina	43	0	0	46	0	0	0
Virginia	52	51	0	25	0	0	312
West Virginia	0	0	0	0	0	0	9
East South Central	**0**	**92**	**0**	**16**	**87**	**0**	**0**
Alabama	0	104	0	19	128	0	0
Kentucky	0	0	0	66	0	0	0
Mississippi	0	0	0	50	0	0	0
Tennessee	0	261	0	18	0	0	0
West South Central	**99**	**98**	**59**	**2**	**5**	**0**	**0**
Arkansas	0	0	0	23	0	0	0
Louisiana	0	0	68	3	4	0	0
Oklahoma	108	868	0	85	0	0	0
Texas	0	346	71	3	13	0	0
Mountain	**14**	**142**	**0**	**22**	**8**	**0**	**0**
Colorado	752	757	0	207	0	0	0
Idaho	102	0	0	90	0	0	0
Montana	274	0	0	0	0	0	0
Nevada	0	0	0	58	0	0	0
New Mexico	0	348	0	149	0	0	0
Utah	0	1,445	0	44	0	0	0
Wyoming	43	143	0	28	8	0	0
Pacific Contiguous	**0**	**101**	**0**	**7**	**7**	**0**	**0**
California	0	540	0	7	7	0	0
Oregon	0	0	0	49	0	0	0
Washington	0	87	0	0	0	0	0
Pacific Noncontiguous	**321**	**48**	**0**	**199**	**100**	**0**	**151**
Alaska	0	18	0	199	0	0	0
Hawaii	321	77	0	0	100	0	151
U.S. Total	**7**	**18**	**33**	**2**	**4**	**0**	**18**

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**0**	**3**	**0**	**33**	**13**
Connecticut	0	0	0	0	0	0	0	53
Maine	0	0	0	0	3	0	33	12
Massachusetts	0	0	0	0	212	0	0	76
New Hampshire	0	0	0	0	0	0	0	210
Middle Atlantic	**0**	**0**	**0**	**68**	**13**	**0**	**0**	**11**
New Jersey	0	0	0	195	195	0	0	39
New York	0	0	0	0	3	0	0	15
Pennsylvania	0	0	0	73	17	0	0	14
East North Central	**0**	**0**	**0**	**218**	**8**	**0**	**9**	**6**
Illinois	0	0	0	0	0	0	24	10
Indiana	0	0	0	0	38	0	0	8
Michigan	0	0	0	0	13	0	0	23
Ohio	0	0	0	218	12	0	0	17
Wisconsin	0	0	0	0	12	0	45	15
West North Central	**0**	**0**	**0**	**0**	**13**	**0**	**48**	**13**
Iowa	0	0	0	0	33	0	0	16
Kansas	0	0	0	0	88	0	169	66
Minnesota	0	0	0	0	14	0	50	20
Missouri	0	0	0	0	129	0	0	104
Nebraska	0	0	0	0	0	0	0	44
North Dakota	0	0	0	0	65	0	0	63
South Atlantic	**0**	**0**	**0**	**0**	**3**	**0**	**4**	**3**
Delaware	0	0	0	0	80	0	0	1
Florida	0	0	0	0	7	0	5	7
Georgia	0	0	0	0	4	0	0	4
Maryland	0	0	0	0	0	0	0	23
North Carolina	0	0	0	0	8	0	0	18
South Carolina	0	0	0	0	1	0	0	4
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**	**5**	**0**	**38**	**5**
Alabama	0	0	0	0	7	0	0	7
Kentucky	0	0	0	0	2	0	0	20
Mississippi	0	0	0	0	4	0	163	11
Tennessee	0	0	0	0	14	0	0	6
West South Central	**0**	**0**	**0**	**0**	**5**	**0**	**9**	**2**
Arkansas	0	0	0	0	4	0	0	6
Louisiana	0	0	0	0	7	0	11	2
Oklahoma	0	0	0	0	26	0	76	45
Texas	0	0	0	0	12	0	11	3
Mountain	**0**	**0**	**0**	**132**	**4**	**0**	**12**	**10**
Colorado	0	0	0	0	157	0	63	93
Idaho	0	0	0	0	2	0	0	14
Montana	0	0	0	0	119	0	0	130
Nevada	0	0	0	132	132	0	0	57
New Mexico	0	0	0	0	0	0	0	149
Utah	0	0	0	0	0	0	0	13
Wyoming	0	0	0	0	0	0	0	16
Pacific Contiguous	**0**	**0**	**0**	**102**	**8**	**0**	**16**	**5**
California	0	0	0	102	19	0	16	6
Oregon	0	0	0	0	15	0	0	20
Washington	0	0	0	0	8	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**27**	**0**	**0**	**43**
Alaska	0	0	0	0	91	0	0	111
Hawaii	0	0	0	0	28	0	0	44
U.S. Total	**0**	**0**	**0**	**57**	**2**	**0**	**5**	**2**

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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, April 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**4**	**0**	**1**
Connecticut	0	1	5	0	1
Maine	0	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	2	3	8	0	3
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	3	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	2	0	1
Indiana	1	2	2	0	1
Michigan	1	2	2	0	1
Ohio	1	1	2	0	1
Wisconsin	1	3	4	0	2
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	2	7	4	0	3
Kansas	2	1	5	0	2
Minnesota	1	4	6	0	2
Missouri	1	1	7	0	1
Nebraska	2	7	7	0	4
North Dakota	2	5	8	0	4
South Dakota	2	9	10	0	5
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	2	10	0	2
District of Columbia	0	0	0	0	0
Florida	0	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	1	2	4	0	2
Mississippi	2	1	3	0	2
Tennessee	1	2	4	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	**0**	**2**	**2**	**0**	**1**
Arizona	1	2	3	0	1
Colorado	1	5	5	0	3
Idaho	1	5	4	0	2
Montana	2	7	7	0	3
Nevada	1	3	1	0	1
New Mexico	2	8	7	0	4
Utah	2	5	2	0	2
Wyoming	2	7	3	0	3
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	4	8	0	3
Washington	1	4	6	0	2
Pacific Noncontiguous	**54**	**10**	**3**	**0**	**16**
Alaska	123	22	12	0	41
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

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

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**1**	**1**	**3**	**0**	**1**
Connecticut	0	1	4	0	1
Maine	2	13	4	0	5
Massachusetts	1	1	6	0	1
New Hampshire	1	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	3	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	1	1	1	0	0
Indiana	1	1	2	0	1
Michigan	0	2	2	0	1
Ohio	1	1	1	0	1
Wisconsin	1	3	3	0	2
West North Central	**1**	**1**	**2**	**0**	**1**
Iowa	1	5	4	0	2
Kansas	2	1	4	0	1
Minnesota	1	3	4	0	2
Missouri	1	1	5	0	1
Nebraska	1	6	6	0	3
North Dakota	1	3	6	0	3
South Dakota	2	7	8	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	1	7	0	1
District of Columbia	0	0	0	0	0
Florida	1	0	3	0	0
Georgia	1	1	2	0	1
Maryland	0	0	3	0	0
North Carolina	1	0	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	0	2	0	0
West Virginia	0	0	0	0	0
East South Central	**1**	**1**	**1**	**0**	**1**
Alabama	1	1	1	0	1
Kentucky	1	1	3	0	1
Mississippi	2	1	3	0	1
Tennessee	1	1	3	0	1
West South Central	**1**	**0**	**1**	**0**	**0**
Arkansas	1	1	2	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	3	0	1
Texas	1	0	1	0	0
Mountain	**0**	**1**	**1**	**0**	**1**
Arizona	1	2	2	0	1
Colorado	1	4	4	0	2
Idaho	1	4	3	0	1
Montana	2	6	5	0	3
Nevada	1	3	1	0	1
New Mexico	2	6	5	0	3
Utah	2	4	2	0	2
Wyoming	1	5	2	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	1	0	1
Oregon	1	3	6	0	2
Washington	1	3	4	0	2
Pacific Noncontiguous	**13**	**4**	**2**	**0**	**4**
Alaska	27	8	9	0	10
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**0**	**0**

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

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**3**	**0**	**0**
Connecticut	0	1	8	0	1
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	3	4	7	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	3	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	**1**	**1**	**1**	**0**	**0**
Illinois	1	1	3	0	1
Indiana	2	2	2	0	1
Michigan	1	1	3	0	1
Ohio	1	1	3	0	1
Wisconsin	1	2	5	0	1
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	2	6	6	0	3
Kansas	2	2	5	0	2
Minnesota	2	3	6	0	2
Missouri	2	2	6	0	2
Nebraska	2	6	8	0	3
North Dakota	2	4	8	0	3
South Dakota	3	7	10	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	2	3	10	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	4	0	0
Georgia	1	1	3	0	1
Maryland	1	1	3	0	0
North Carolina	1	1	3	0	1
South Carolina	1	1	3	0	1
Virginia	1	1	3	0	1
West Virginia	1	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	3	4	0	2
Mississippi	2	3	5	0	2
Tennessee	2	2	5	0	1
West South Central	**1**	**1**	**2**	**0**	**1**
Arkansas	2	2	4	0	1
Louisiana	1	1	1	0	1
Oklahoma	2	2	5	0	1
Texas	1	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	3	5	0	1
Colorado	2	5	8	0	3
Idaho	2	4	4	0	2
Montana	3	5	12	0	3
Nevada	1	4	2	0	1
New Mexico	3	9	12	0	5
Utah	2	6	4	0	3
Wyoming	3	6	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	2	0	1
Oregon	1	3	8	0	2
Washington	1	3	7	0	2
Pacific Noncontiguous	**60**	**11**	**2**	**0**	**20**
Alaska	160	27	10	0	59
Hawaii	0	0	0	0	0
U.S. Total	**1**	**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 April 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**2**	**0**
Connecticut	0	1	5	6	1
Maine	2	3	2	0	2
Massachusetts	1	1	3	0	1
New Hampshire	1	1	3	0	1
Rhode Island	0	0	0	0	0
Vermont	3	3	5	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	1	1	2	0	1
Indiana	2	2	1	0	1
Michigan	0	1	3	0	1
Ohio	1	1	2	0	1
Wisconsin	1	2	4	0	1
West North Central	**1**	**1**	**3**	**0**	**1**
Iowa	2	5	5	0	2
Kansas	2	1	4	0	1
Minnesota	1	3	5	0	2
Missouri	2	2	4	0	1
Nebraska	2	5	7	0	3
North Dakota	1	3	6	0	2
South Dakota	2	6	9	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	2	2	7	0	1
District of Columbia	0	0	0	0	0
Florida	1	1	3	0	0
Georgia	1	1	3	0	1
Maryland	0	0	2	0	0
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	1	2	0	0
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**1**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	2	2	3	0	1
Mississippi	2	2	3	0	1
Tennessee	2	2	4	0	1
West South Central	**1**	**1**	**1**	**0**	**0**
Arkansas	2	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	2	2	4	0	1
Texas	1	1	1	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	1	2	4	0	1
Colorado	2	4	6	0	2
Idaho	1	3	4	0	1
Montana	2	4	10	0	2
Nevada	1	3	1	0	1
New Mexico	3	7	9	0	4
Utah	2	5	3	0	2
Wyoming	2	5	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**0**
California	0	1	2	0	0
Oregon	1	2	7	0	1
Washington	1	2	6	0	1
Pacific Noncontiguous	**14**	**3**	**2**	**0**	**5**
Alaska	36	8	9	0	14
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, April 2016

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**0**	**0**
Connecticut	0	0	9	0	1
Maine	0	1	1	0	0
Massachusetts	0	0	4	0	1
New Hampshire	0	0	2	0	1
Rhode Island	0	0	0	0	0
Vermont	2	2	3	0	2
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**0**	**1**	**0**	**0**
Illinois	1	0	1	0	0
Indiana	1	1	1	0	1
Michigan	0	1	1	0	0
Ohio	1	0	1	0	0
Wisconsin	1	1	2	0	1
West North Central	**1**	**1**	**1**	**0**	**0**
Iowa	1	2	3	0	1
Kansas	2	1	3	0	1
Minnesota	1	1	2	0	1
Missouri	1	1	3	0	1
Nebraska	1	2	3	0	1
North Dakota	1	2	3	0	1
South Dakota	1	3	4	0	2
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	2	4	0	1
District of Columbia	0	0	0	0	0
Florida	0	1	2	0	0
Georgia	1	1	2	0	1
Maryland	0	0	2	0	0
North Carolina	1	1	1	0	1
South Carolina	1	1	1	0	1
Virginia	1	1	2	0	0
West Virginia	0	0	0	0	0
East South Central	**1**	**1**	**1**	**0**	**0**
Alabama	1	1	1	0	1
Kentucky	1	1	2	0	1
Mississippi	2	2	3	0	1
Tennessee	1	1	2	0	1
West South Central	**1**	**1**	**1**	**0**	**0**
Arkansas	1	2	2	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	2	3	0	1
Texas	1	1	1	0	0
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	1	3	7	0	1
Nevada	0	2	1	0	1
New Mexico	1	2	6	0	2
Utah	1	1	2	0	1
Wyoming	1	2	1	0	1
Pacific Contiguous	**0**	**1**	**1**	**0**	**0**
California	0	0	1	0	0
Oregon	1	2	3	0	1
Washington	1	2	1	0	1
Pacific Noncontiguous	**10**	**3**	**2**	**0**	**5**
Alaska	42	8	6	0	19
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**0**	**0**

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

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

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

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

Table B.2 Major Disturbances and Unusual Occurrences, 2015

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

Table B.2 Major Disturbances and Unusual Occurrences, 2015

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

Table B.2 Major Disturbances and Unusual Occurrences, 2015

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

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

Appendix C

Technical notes

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

Data quality

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

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

Reliability of data

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

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

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

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

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

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

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

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

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

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

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

Data revision procedure

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

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

Data sources for Electric Power Monthly

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

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

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

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

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

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

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

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

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

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

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

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

P Indicates a preliminary value.

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

Form EIA-826

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form EIA-860

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

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

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

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

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

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

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

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

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

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

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

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

Form EIA-860M

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

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

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

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

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

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

Form EIA-861

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

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

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

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

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

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

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

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

Form EIA-923

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

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

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

Instrument and design history:

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

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

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

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

Generation, consumption, and stocks

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Issues within historical data series:

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

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

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

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

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

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

Average Capacity Factors

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

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

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

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

NERC classification

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

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

The new NERC Regional Council names are as follows:

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

Business classification

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

Agriculture, Forestry, and Fishing

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

Mining

211 Oil and gas extraction
2121 Coal mining
2122 Metal mining

2123 Mining and quarrying of nonmetallic minerals except fuels

Construction

23

Manufacturing

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

Transportation and Public Utilities

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

Wholesale Trade

421 to 422

Retail Trade

441 to 454

Finance, Insurance, and Real Estate

521 to 533

Services

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

Public Administration

92

Multiple Survey Programs- Small Scale PV Solar Estimation of Generation

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

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

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

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

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

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

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

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

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

e_i is the error term

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

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

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

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

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

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

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

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

Appendix 1- MSAs

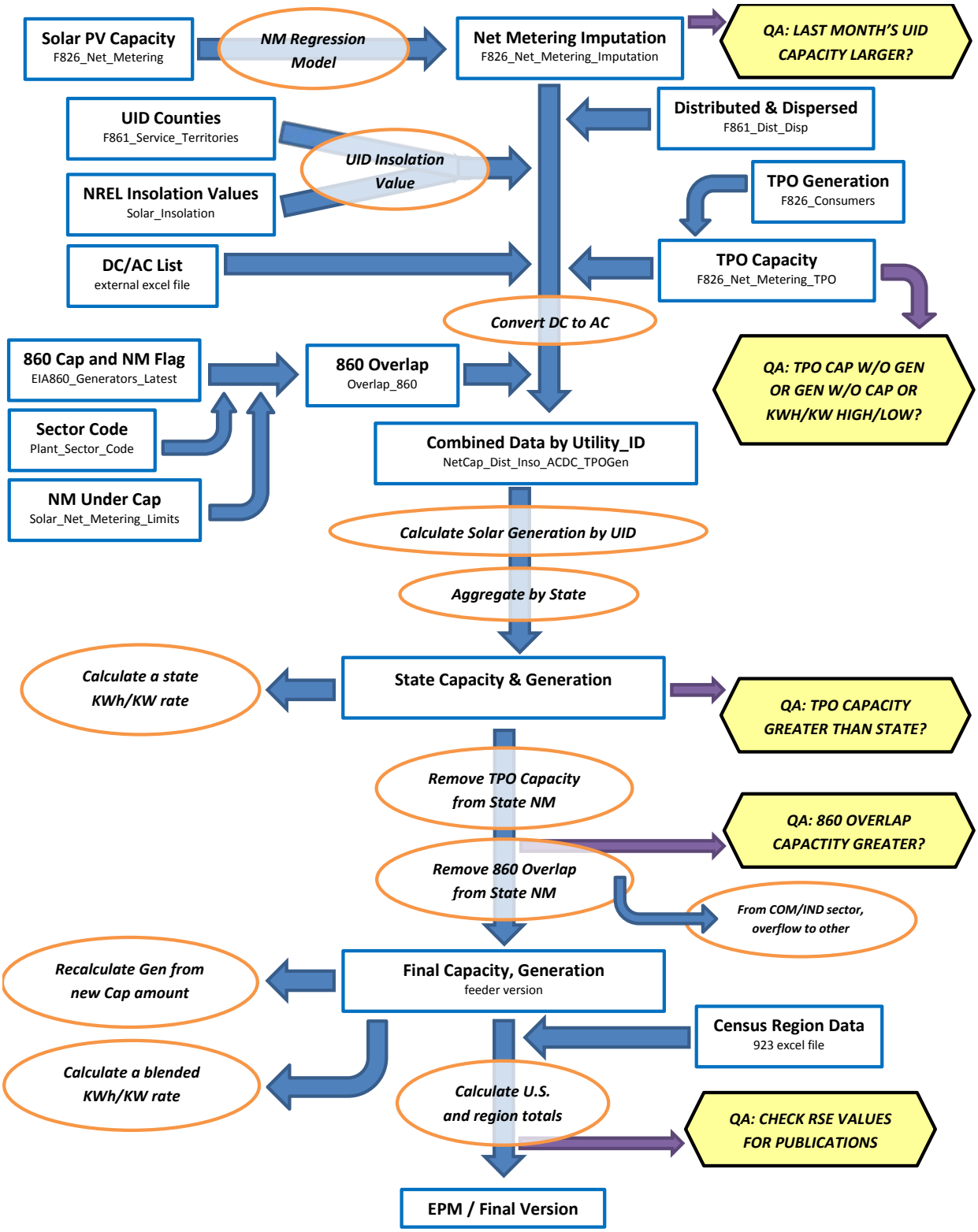
TMY3 (1991-2005) Weather Stations by MSA

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

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

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

Appendix 2 – Flow diagram of data sources and analysis



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

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

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

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

Census Division and State	Coal (Million Btu per Ton)	Petroleum Liquids (Million Btu per Barrel)	Petroleum Coke (Million Btu per Ton)	Natural Gas (Million Btu per Thousand Cubic Feet)
New England	22.12	6.21	--	1.03
Connecticut	--	5.80	--	1.03
Maine	25.21	6.27	--	1.02
Massachusetts	21.23	5.81	--	1.03
New Hampshire	26.50	--	--	1.03
Rhode Island	--	--	--	1.04
Vermont	--	--	--	--
Middle Atlantic	24.29	5.79	--	1.03
New Jersey	25.85	5.76	--	1.04
New York	26.12	5.80	--	1.03
Pennsylvania	24.24	5.79	--	1.04
East North Central	20.62	5.79	27.85	1.04
Illinois	17.80	5.78	--	1.02
Indiana	22.42	5.76	29.40	1.04
Michigan	18.68	5.83	26.90	1.03
Ohio	24.80	5.79	27.47	1.06
Wisconsin	18.66	5.80	27.92	1.04
West North Central	16.58	5.80	--	1.05
Iowa	17.68	5.89	--	1.06
Kansas	17.32	--	--	1.03
Minnesota	17.58	5.78	--	1.06
Missouri	17.61	5.77	--	1.03
Nebraska	16.87	5.75	--	1.07
North Dakota	13.22	5.82	--	1.00
South Dakota	16.42	--	--	1.06
South Atlantic	23.73	6.14	27.55	1.03
Delaware	25.91	5.81	--	1.04
District of Columbia	--	--	--	--
Florida	23.43	5.76	27.65	1.02
Georgia	20.35	5.89	27.05	1.03
Maryland	25.48	5.82	--	1.04
North Carolina	24.81	5.79	--	1.04
South Carolina	24.95	5.86	--	1.03
Virginia	24.22	6.30	--	1.06
West Virginia	24.64	5.77	--	1.08
East South Central	21.79	5.81	--	1.03
Alabama	20.18	5.50	--	1.03
Kentucky	22.11	5.84	--	1.01
Mississippi	16.69	5.81	--	1.03
Tennessee	24.37	5.77	--	1.01
West South Central	15.30	5.89	28.62	1.03
Arkansas	17.45	5.88	--	1.03
Louisiana	17.56	5.90	28.62	1.03
Oklahoma	17.54	--	--	1.04
Texas	14.28	5.85	--	1.03
Mountain	19.11	5.75	--	1.05
Arizona	19.44	5.71	--	1.04
Colorado	19.29	5.80	--	1.08
Idaho	--	--	--	1.03
Montana	16.77	5.92	--	--
Nevada	21.89	5.81	--	1.04
New Mexico	19.97	5.66	--	1.06
Utah	21.57	5.88	--	1.04
Wyoming	17.43	5.88	--	1.04
Pacific Contiguous	23.08	--	--	1.03
California	23.31	--	--	1.03
Oregon	--	--	--	1.05
Washington	14.83	--	--	1.09
Pacific Noncontiguous	22.62	6.12	--	1.01
Alaska	14.00	5.50	--	1.01
Hawaii	23.06	6.12	--	--
U.S. Total	19.75	6.07	27.95	1.03

'Coal' includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
'Petroleum Liquids' include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
'Petroleum Coke' includes petroleum coke and synthesis gas derived from petroleum coke.
'Natural Gas' includes a small amount of supplemental gaseous fuels.
Notes: See Glossary for definitions. Values are preliminary. Data represents weighted values.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table C.2. Comparison of Preliminary Monthly Data Versus Final Monthly Data at the U.S. Level, 2012 through 2014

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

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-month values.
See technical notes (http://www.eia.gov/cneaf/electricity/epm/appenc.pdf) for additional information on the Commercial, Industrial and Transportation sectors.
Cost of Fossil Fuels represent weighted values.
Notes: Mean absolute value of percent change is the unweighted average of the absolute percent cahnges.
Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report'; Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report'; and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

Table C.3. Comparison of Preliminary Annual Data Versus Final Annual Data at the U.S. Level, 2012 through 2014

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

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-year values.
See technical notes (http://www.eia.gov/cneaf/electricity/epm/appenc.pdf) for additional information on the Commercial, Industrial and Transportation sectors.
Cost of Fossil Fuels represent weighted values.
Notes: The average revenue per kilowatthour is calculated by dividing revenue by sales. Totals may not equal sum of components because of independent rounding.
Percent changes refer to the difference between the preliminary data published in the Electric Power Monthly (EPM) and the final data published in the EPM. Values for 2014 are Final.
Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report';
Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report';
and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

Table C.4. Unit of Measure Equivalents for Electricity

Unit	Equivalent
Kilowatt (kW)	1,000 (One Thousand) Watts
Megawatt (MW)	1,000,000 (One Million) Watts
Gigawatt (GW)	1,000,000,000 (One Billion) Watts
Terawatt (TW)	1,000,000,000,000 (One Trillion) Watts
Gigawatt	1,000,000 (One Million) Kilowatts
Thousand Gigawatts	1,000,000,000 (One Billion) Kilowatts
Kilowatthours (kWh)	1,000 (One Thousand) Watthours
Megawatthours (MWh)	1,000,000 (One Million) Watthours
Gigawatthours (GWh)	1,000,000,000 (One Billion) Watthours
Terawatthours (TWh)	1,000,000,000,000 (One Trillion) Watthours
Gigawatthours	1,000,000 (One Million) Kilowatthours
Thousand Gigawatthours	1,000,000,000(One Billion Kilowatthours

Source: U.S. Energy Information Administration

Glossary

Anthracite: The highest rank of coal; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million Btu per ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). Note: Since the 1980's, anthracite refuse or mine waste has been used for steam electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Ash: Impurities consisting of silica, iron, aluminum, and other noncombustible matter that are contained in coal. Ash increases the weight of coal, adds to the cost of handling, and can affect its burning characteristics. Ash content is measured as a percent by weight of coal on a "received" or a "dry" (moisture-free, usually part of a laboratory analysis) basis.

Ash content: The amount of ash contained in the fuel (except gas) in terms of percent by weight.

Average Price of Electricity to Ultimate Consumers (formerly known as Average Revenue per Kilowatthour): The average revenue per kilowatthour of electricity sold by sector (residential, commercial, industrial, or other) and geographic area (State, Census division, and national), is calculated by dividing the total monthly revenue by the corresponding total monthly sales for each sector and geographic area.

Barrel: A unit of volume equal to 42 U.S. gallons.

Biomass: Organic non-fossil material of biological origin constituting a renewable energy resource.

Bituminous coal: A dense coal, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steam-electric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make coke. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million Btu per ton on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

British thermal unit: The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit).

Btu: The abbreviation for British thermal unit(s).

Capacity: See Generator Capacity and Generator Name Plate Capacity (Installed).

Census Divisions: Any of nine geographic areas of the United States as defined by the U.S. Department of Commerce, Bureau of the Census. The divisions, each consisting of several States, are defined as follows:

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

Note: Each division is a sub-area within a broader Census Region. In some cases, the Pacific division is subdivided into the Pacific Contiguous area (California, Oregon, and Washington) and the Pacific Noncontiguous area (Alaska and Hawaii).

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Coal synfuel: Coal-based solid fuel that has been processed by a coal synfuel plant; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coke (petroleum): A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

Combined cycle: An electric generating technology in which electricity is produced from otherwise lost waste heat exiting from one or more gas (combustion) turbine-generators. The exiting heat from the combustion turbine(s) is routed to a conventional boiler or to a heat recovery steam generator for utilization by a steam turbine in the production of additional electricity.

Combined heat and power (CHP): Includes plants designed to produce both heat and electricity from a single heat source. *Note:* This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments.

Consumption (fuel): The use of energy as a source of heat or power or as a raw material input to a manufacturing process.

Cost: The amount paid to acquire resources, such as plant and equipment, fuel, or labor services.

Demand (electric): The rate at which electric energy is delivered to or by a system, part of a system, or piece of equipment, at a given instant or averaged over any designated period of time.

Diesel: A distillate fuel oil that is used in diesel engines such as those used for transportation and for electric power generation.

Distillate fuel oil: *A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.*

1) *No. 1 Distillate:* A light petroleum distillate that can be used as either a diesel fuel (see No. 1 Diesel Fuel) or a fuel oil. See No. 1 Fuel Oil.

- *No. 1 Diesel fuel:* A light distillate fuel oil that has distillation temperatures of 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines, such as those in city buses and similar vehicles. See No. 1 Distillate above.
- *No. 1 Fuel oil:* A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See No. 1 Distillate above.

2) *No. 2 Distillate:* A petroleum distillate that can be used as either a diesel fuel (see No. 2 Diesel Fuel definition below) or a fuel oil. See No. 2 Fuel oil below.

- *No. 2 Diesel fuel:* A fuel that has distillation temperatures of 500 degrees Fahrenheit at the 10-percent recovery point and 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See No. 2 Distillate above.

3) *No. 4 Fuel:* A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms with ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

- *No. 4 Diesel fuel and No. 4 Fuel oil:* See No. 4 Fuel above.

Electric industry restructuring: The process of replacing a monopolistic system of electric utility suppliers with competing sellers, allowing individual ultimate customers to choose their supplier but still receive delivery over the power lines of the local utility. It includes the reconfiguration of vertically integrated electric utilities.

Electric plant (physical): A facility containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric power sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-- i. e., North American Industry Classification System 22 plants.

Electric utility: A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of electric energy for use primarily by the public. Included are investor-owned electric utilities, municipal and State utilities, Federal electric utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included. Note: Due to the issuance of FERC Order 888 that required traditional electric utilities to functionally unbundle their generation, transmission, and distribution operations, "electric utility" currently has inconsistent interpretations from State to State.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity generation: The process of producing electric energy or the amount of electric energy produced by transforming other forms of energy, commonly expressed in kilowatthours (kWh) or megawatthours (MWh).

Electricity generators: The facilities that produce only electricity, commonly expressed in kilowatthours (kWh) or megawatthours (MWh).

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy conservation features: This includes building shell conservation features, HVAC conservation features, lighting conservation features, any conservation features, and other conservation features incorporated by the building. However, this category does not include any demand-side management (DSM) program participation by the building. Any DSM program participation is included in the DSM Programs.

Energy efficiency: Refers to programs that are aimed at reducing the energy used by specific end-use devices and systems, typically without affecting the services provided. These programs reduce overall electricity consumption (reported in megawatthours), often without explicit consideration for the timing of program-induced savings. Such savings are generally achieved by substituting technically more advanced equipment to produce the same level of end-use services (e.g. lighting, heating, motor drive) with less electricity. Examples include high-efficiency appliances, efficient lighting programs, high-efficiency heating, ventilating and air conditioning (HVAC) systems or control modifications, efficient building design, advanced electric motor drives, and heat recovery systems.

Energy service provider: An energy entity that provides service to an ultimate consumer.

Energy source: Any substance or natural phenomenon that can be consumed or transformed to supply heat or power. Examples include petroleum, coal, natural gas, nuclear, biomass, electricity, wind, sunlight, geothermal, water movement, and hydrogen in fuel cells.

Energy-only service: Sales services for ultimate consumers for which the company provided only the energy consumed, where another entity provides delivery services.

Fossil fuel: An energy source formed in the earths crust from decayed organic material. The common fossil fuels are petroleum, coal, and natural gas.

Franchised service area: A specified geographical area in which a utility has been granted the exclusive right to serve customers. A franchise allows an entity to use city streets, alleys and other public lands in order to provide, distribute, and sell services to the community.

Fuel: Any material substance that can be consumed to supply heat or power. Included are petroleum, coal, and natural gas (the fossil fuels), and other consumable materials, such as uranium, biomass, and hydrogen.

Gas: A fuel burned under boilers and by internal combustion engines for electric generation. These include natural, manufactured and waste gas.

Gas turbine plant: An electric generating facility in which the prime mover is a gas (combustion) turbine. A gas turbine typically consists of an air compressor and one or more combustion chambers where either liquid or gaseous fuel is burned. The resulting hot gases are passed through the turbine where they expand to drive both an electric generator and the compressor.

Generating unit: Any combination of physically connected generators, reactors, boilers, combustion turbines, or other prime movers operated together to produce electric power.

Generator: A machine that converts mechanical energy into electrical energy.

Generator capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, adjusted for ambient conditions.

Generator nameplate capacity (installed): The maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer. Installed generator nameplate capacity is commonly expressed in megawatts (MW) and is usually indicated on a nameplate physically attached to the generator.

Geothermal: Pertaining to heat within the Earth.

Geothermal energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust. Water or steam extracted from geothermal reservoirs can be used for geothermal heat pumps, water heating, or electricity generation.

Gigawatt (GW): One billion watts.

Gigawatthour (GWh): One billion watthours.

Gross generation: The total amount of electric energy produced by generating units and measured at the generating terminal in kilowatthours (kWh) or megawatthours (MWh).

Heat content: The amount or number of British thermal units (Btu) produced by the combustion of fuel, measured in Btu/unit of measure.

Hydroelectric power: The production of electricity from the kinetic energy of falling water.

Hydroelectric power generation: Electricity generated by an electric power plant whose turbines are driven by falling water. It includes electric utility and industrial generation of hydroelectricity, unless otherwise specified. Generation is reported on a net basis, i.e., on the amount of electric energy generated after the electric energy consumed by station auxiliaries and the losses in the transformers that are considered integral parts of the station are deducted.

Hydroelectric pumped storage: Hydroelectricity that is generated during peak loads by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Hydrogen: A colorless, odorless, highly flammable gaseous element. It is the lightest of all gases and the most abundant element in the universe, occurring chiefly in combination with oxygen in water and also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Independent power producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an electric utility.

Industrial sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); natural gas distribution (NAICS code 2212); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

Interdepartmental service (electric): Interdepartmental service includes amounts charged by the electric department at tariff or other specified rates for electricity supplied by it to other utility departments.

Internal combustion plant: A plant in which the prime mover is an internal combustion engine. An internal combustion engine has one or more cylinders in which the process of combustion takes place, converting energy released from the rapid burning of a fuel-air mixture into mechanical energy. Diesel or gas-fired engines are the principal types used in electric plants. The plant is usually operated during periods of high demand for electricity.

Investor-owned utility (IOU): A privately-owned electric utility whose stock is publicly traded. It is rate regulated and authorized to achieve an allowed rate of return.

Jet fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Kerosene: A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil.

Kilowatt (kW): One thousand watts.

Kilowatthour (kWh): One thousand watthours.

Light oil: Lighter fuel oils distilled off during the refining process. Virtually all petroleum used in internal combustion and gas-turbine engines is light oil.

Lignite: The lowest rank of coal, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million Btu per ton on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Manufactured gas: A gas obtained by destructive distillation of coal, or by thermal decomposition of oil, or by the reaction of steam passing through a bed of heated coal or coke. Examples are coal gases, coke oven gases, producer gas, blast furnace gas, blue (water) gas, and carbureted water gas

Mcf: One thousand cubic feet.

Megawatt (MW): One million watts of electricity.

Megawatthour (MWh): One million watthours.

Municipal utility: A nonprofit utility, owned by a local municipality and operated as a department thereof, governed by a city council or an independently elected or appointed board; primarily involved in the distribution and/or sale of electric power to ultimate consumers.

Natural gas: A gaseous mixture of hydrocarbon compounds, the primary one being methane. Note: The Energy Information Administration measures wet natural gas and its two sources of production, associated/dissolved natural gas and nonassociated natural gas, and dry natural gas, which is produced from wet natural gas.

1) *Wet natural gas:* A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in porous rock formations at reservoir conditions. The principal hydrocarbons normally contained in the mixture are methane, ethane, propane, butane, and pentane. Typical nonhydrocarbon gases that may be present in reservoir natural gas are water vapor, carbon dioxide, hydrogen sulfide, nitrogen and trace amounts of helium. Under reservoir conditions, natural gas and its associated liquefiable portions occur either in a single gaseous phase in the reservoir or in solution with crude oil and are not distinguishable at the time as separate substances. Note: The Securities and Exchange Commission and the Financial Accounting Standards Board refer to this product as natural gas.

   - Associated-dissolved natural gas: Natural gas that occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (dissolved gas).
   - Nonassociated natural gas: Natural gas that is not in contact with significant quantities of crude oil in the reservoir.

2) *Dry natural gas:* Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. Note: Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Net generation: The amount of gross generation less the electrical energy consumed at the generating station(s) for station service or auxiliaries. Note: Electricity required for pumping at pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.

Net summer capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of May 1 through October 31). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Net winter capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of peak winter demand (period of November 1 though April 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

North American Electric Reliability Council (NERC): A council formed in 1968 by the electric utility industry to promote the reliability and adequacy of bulk power supply in the electric utility systems of North America. The NERC Regions are:

1) Texas Regional Entity (TRE),
2) Florida Reliability Coordinating Council (FRCC),
3) Midwest Reliability Organization (MRO),
4) Northeast Power Coordinating Council (NPCC),
5) ReliabilityFirst Corporation (RFC),
6) Southeastern Electric Reliability Council (SERC),
7) Southwest Power Pool (SPP), and the
8) Western Energy Coordinating Council (WECC).

North American Industry Classification System (NAICS): A set of codes that describes the possible purposes of a facility.

Nuclear electric power: Electricity generated by an electric power plant whose turbines are driven by steam produced by the heat from the fission of nuclear fuel in a reactor.

Other customers: Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, sales for irrigation, and interdepartmental sales.

Other generation: Electricity originating from these sources: manufactured, supplemental gaseous fuel, propane, and waste gasses, excluding natural gas; biomass; geothermal; wind; solar thermal; photovoltaic; synthetic fuel; purchased steam; and waste oil energy sources.

Percent change: The relative change in a quantity over a specified time period. It is calculated as follows: the current value has the previous value subtracted from it; this new number is divided by the absolute value of the previous value; then this new number is multiplied by 100.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum coke: See Coke (petroleum).

Photovoltaic energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Plant: A term commonly used either as a synonym for an industrial establishment or a generation facility or to refer to a particular process within an establishment.

Power: The rate at which energy is transferred. Electrical energy is usually measured in watts. Also used for a measurement of capacity.

Power production plant: All the land and land rights, structures and improvements, boiler or reactor vessel equipment, engines and engine-driven generator, turbo generator units, accessory electric equipment, and miscellaneous power plant equipment are grouped together for each individual facility.

Production (electric): Act or process of producing electric energy from other forms of energy; also, the amount of electric energy expressed in watthours (Wh).

Propane: A normally gaseous straight-chain hydrocarbon, (C3H8). It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products covered by Gas Processors Association Specifications for commercial propane and HD-5 propane and ASTM Specification D 1835.

Public street and highway lighting service: Includes electricity supplied and services rendered for the purpose of lighting streets, highways, parks and other public places; or for traffic or other signal system service, for municipalities, or other divisions or agencies of State or Federal governments.

Railroad and railway electric service: Electricity supplied to railroads and interurban and street railways, for general railroad use, including the propulsion of cars or locomotives, where such electricity is supplied under separate and distinct rate schedules.

Receipts: Purchases of fuel.

Relative standard error: The standard deviation of a distribution divided by the arithmetic mean, sometimes multiplied by 100. It is used for the purpose of comparing the variabilities of frequency distributions but is sensitive to errors in the means.

Residential: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.

Residual fuel oil: A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government

service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Retail: Sales covering electrical energy supplied for residential, commercial, and industrial end-use purposes. Other small classes, such as agriculture and street lighting, also are included in this category.

Revenues: The total amount of money received by a firm from sales of its products and/or services, gains from the sales or exchange of assets, interest and dividends earned on investments, and other increases in the owner's equity except those arising from capital adjustments.

Sales: The transfer of title to an energy commodity from a seller to a buyer for a price or the quantity transferred during a specified period.

Service classifications (sectors): Consumers grouped by similar characteristics in order to be identified for the purpose of setting a common rate for electric service. Usually classified into groups identified as residential, commercial, industrial and other.

Service to public authorities: Public authority service includes electricity supplied and services rendered to municipalities or divisions or agencies of State and Federal governments, under special contracts or agreements or service classifications applicable only to public authorities.

Solar energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or electricity. Electricity produced from solar energy heats a medium that powers an electricity-generating device.

State power authority: A nonprofit utility owned and operated by a state government agency, primarily involved in the generation, marketing, and/or transmission of wholesale electric power.

Steam-electric power plant (conventional): A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Stocks of fuel: A supply of fuel accumulated for future use. This includes coal and fuel oil stocks at the plant site, in coal cars, tanks, or barges at the plant site, or in separate storage sites.

Subbituminous coal: A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Sulfur: A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is

currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

Sulfur content: The amount of sulfur contained in the fuel (except gas) in terms of percent by weight.

Supplemental gaseous fuel supplies: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic fuel: A gaseous, liquid, or solid fuel that does not occur naturally. Synfuels can be made from coal (coal gasification or coal liquefaction), petroleum products, oil shale, tar sands, or plant products. Among the synfuels are various fuel gases, including but not restricted to substitute natural gas, liquid fuels for engines (e.g., gasoline, diesel fuel, and alcohol fuels) and burner fuels (e.g., fuel heating oils).

Terrawatt: One trillion watts.

Terrawatthour: One trillion kilowatthours.

Ton: A unit of weight equal to 2,000 pounds.

Turbine: A machine for generating rotary mechanical power from the energy of a stream of fluid (such as water, steam, or hot gas). Turbines convert the kinetic energy of fluids to mechanical energy through the principles of impulse and reaction, or a mixture of the two.

Ultimate consumer: A consumer that purchases electricity for its own use and not for resale.

Useful thermal output: The thermal energy made available in a combined heat or power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

Waste coal: As a fuel for electric power generation, waste coal includes anthracite refuse or mine waste, waste from anthracite preparation plants, and coal recovered from previously mined sites.

Waste gases: As a fuel for electric power generation, waste gasses are those gasses that are produced from gasses recovered from a solid-waste or wastewater treatment facility, or the gaseous by-products of oil-refining processes.

Waste oil: As a fuel for electric power generation, waste oil includes recycled motor oil, and waste oil from transformers.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A Watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Wind energy: The kinetic energy of wind converted into mechanical energy by wind turbines (i.e., blades rotating from the hub) that drive generators to produce electricity.

Year-to -date: The cumulative sum of each month's value starting with January and ending with the current month of the data.