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U.S. Energy Information Administration

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with Data for January 2016

March 2016

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March 2016 EPM Revision Notice – April 1, 2016

Ten hydroelectric plants in Oregon, Washington, and Idaho under-reported their hydroelectric generation for January 2016. EIA has updated this report with the correct generation for these plants. The inclusion of the corrected data increased January 2016 hydroelectric generation for the following states/regions by these percentages: Oregon (63%); Washington (16%); Idaho (13%); the Pacific Contiguous (25%); U.S. total hydroelectric generation (10.2%); and U.S. total generation (0.7%). These revisions are reflected in tables ES1.A and B, tables 1.1 through 1.3.B, and tables 1.10.A and B. EIA also slightly revised generation from coal, petroleum coke, natural gas, and other energy sources; consumption of coal, petroleum liquids, and natural gas; fuel stocks for coal and petroleum liquids; receipts of coal and petroleum liquids; and the cost of petroleum liquids to independent power producers. These changes are reflected in the report in tables ES1.A through ES2.B and the corresponding Chapter 2, 3, and 4 tables.

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

Preface

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

Background

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

Data sources

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

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		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	113,751	132,498	-14.1%	85,132	96,609	27,671	34,845	41	53	907	992	0	0
Petroleum Liquids	Utility Scale Facilities	1,359	1,929	-29.6%	940	1,160	364	684	11	26	45	59	0	0
Petroleum Coke	Utility Scale Facilities	980	1,041	-5.8%	832	813	42	129	1	1	106	98	0	0
Natural Gas	Utility Scale Facilities	109,980	101,811	8.0%	52,140	45,834	49,632	47,672	656	619	7,551	7,685	0	0
Other Gas	Utility Scale Facilities	1,254	1,293	-3.0%	NM	27	365	372	0	0	885	894	0	0
Nuclear	Utility Scale Facilities	72,536	74,270	-2.3%	37,985	39,377	34,551	34,893	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	25,535	24,631	3.7%	23,212	22,809	2,190	1,689	NM	NM	127	130	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	26,951	23,649	14.0%	3,299	3,211	20,951	17,598	260	267	2,441	2,573	0	0
... Wind	Utility Scale Facilities	18,511	15,262	21.3%	2,651	2,627	15,842	12,620	NM	NM	NM	NM	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	1,546	1,218	26.9%	104	77	1,411	1,117	29	23	NM	NM	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,573	3,794	-5.8%	297	285	953	1,057	7	7	2,315	2,446	0	0
... Other Biomass	Utility Scale Facilities	1,884	1,899	-0.8%	149	127	1,406	1,424	212	227	117	121	0	0
... Geothermal	Utility Scale Facilities	1,436	1,475	-2.7%	98	95	1,338	1,381	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-312	-551	-43.4%	-230	-460	-82	-92	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,120	1,063	5.3%	50	28	577	584	91	92	402	359	0	0
All Energy Sources	Utility Scale Facilities	353,153	361,634	-2.3%	203,364	209,407	136,260	138,374	1,065	1,062	12,464	12,791	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	845	643	31.5%	0	0	0	0	342	286	80	66	423	291
Estimated Total Solar Photovoltaic	All Facilities	2,306	1,797	28.3%	102	72	1,328	1,058	371	310	NM	NM	423	291
Estimated Total Solar	All Facilities	2,392	1,861	28.5%	104	77	1,411	1,117	371	310	NM	NM	423	291
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	62,151	71,302	-12.8%	46,090	51,530	15,729	19,403	13	17	319	351	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,380	3,356	-29.1%	1,713	2,097	592	1,120	11	55	64	85	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	346	400	-13.3%	302	312	17	57	0	0	27	30	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	808,418	747,937	8.1%	388,873	342,461	360,075	344,326	6,291	6,033	53,178	55,117	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,516	1,669	-9.2%	90	91	140	176	66	79	1,220	1,325	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	242	329	-26.2%	4	9	87	109	18	26	133	185	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	83	140	-40.9%	0	0	10	10	2	2	70	128	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	83,303	79,362	5.0%	1,101	751	26,477	26,697	5,163	4,911	50,563	47,004	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	63,667	72,972	-12.8%	46,180	51,621	15,869	19,579	79	96	1,539	1,676	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,623	3,685	-28.8%	1,717	2,105	680	1,229	29	81	197	271	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	429	540	-20.5%	302	313	27	67	3	3	98	158	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	891,720	827,300	7.8%	389,973	343,212	386,552	371,023	11,454	10,944	103,741	102,121	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	190,859	156,531	21.9%	149,028	119,838	40,045	34,911	143	253	1,643	1,529	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	33,426	34,461	-3.0%	20,673	22,006	11,082	10,638	357	350	1,314	1,467	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,453	1,224	18.7%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January									
	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	January 2016	January 2015	Percentage Change	January 2016	January 2015	Percentage Change	January 2016	January 2015	Percentage Change
Residential	130,795	137,531	-4.9%	15,703	16,638	-5.6%	12.01	12.10	-0.7%
Commercial	110,334	110,941	-0.5%	11,010	11,387	-3.3%	9.98	10.26	-2.7%
Industrial	76,287	77,242	-1.2%	4,895	5,127	-4.5%	6.42	6.64	-3.3%
Transportation	659	670	-1.6%	62	71	-12.4%	9.46	10.62	-10.9%
All Sectors	318,075	326,384	-2.5%	31,670	33,223	-4.7%	9.96	10.18	-2.2%

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														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	113,751	132,498	-14.1%	85,132	96,609	27,671	34,845	41	53	907	992	0	0
Petroleum Liquids	Utility Scale Facilities	1,359	1,929	-29.6%	940	1,160	364	684	11	26	45	59	0	0
Petroleum Coke	Utility Scale Facilities	980	1,041	-5.8%	832	813	42	129	1	1	106	98	0	0
Natural Gas	Utility Scale Facilities	109,980	101,811	8.0%	52,140	45,834	49,632	47,672	656	619	7,551	7,685	0	0
Other Gas	Utility Scale Facilities	1,254	1,293	-3.0%	NM	27	365	372	0	0	885	894	0	0
Nuclear	Utility Scale Facilities	72,536	74,270	-2.3%	37,985	39,377	34,551	34,893	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	25,535	24,631	3.7%	23,212	22,809	2,190	1,689	NM	NM	127	130	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	26,951	23,649	14.0%	3,299	3,211	20,951	17,598	260	267	2,441	2,573	0	0
... Wind	Utility Scale Facilities	18,511	15,262	21.3%	2,651	2,627	15,842	12,620	NM	NM	NM	NM	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	1,546	1,218	26.9%	104	77	1,411	1,117	29	23	NM	NM	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,573	3,794	-5.8%	297	285	953	1,057	7	7	2,315	2,446	0	0
... Other Biomass	Utility Scale Facilities	1,884	1,899	-0.8%	149	127	1,406	1,424	212	227	117	121	0	0
... Geothermal	Utility Scale Facilities	1,436	1,475	-2.7%	98	95	1,338	1,381	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-312	-551	-43.4%	-230	-460	-82	-92	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,120	1,063	5.3%	50	28	577	584	91	92	402	359	0	0
All Energy Sources	Utility Scale Facilities	353,153	361,634	-2.3%	203,364	209,407	136,260	138,374	1,065	1,062	12,464	12,791	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	845	643	31.5%	0	0	0	0	342	286	80	66	423	291
Estimated Total Solar Photovoltaic	All Facilities	2,306	1,797	28.3%	102	72	1,328	1,058	371	310	NM	NM	423	291
Estimated Total Solar	All Facilities	2,392	1,861	28.5%	104	77	1,411	1,117	371	310	NM	NM	423	291
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	62,151	71,302	-12.8%	46,090	51,530	15,729	19,403	13	17	319	351	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,380	3,356	-29.1%	1,713	2,097	592	1,120	11	55	64	85	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	346	400	-13.3%	302	312	17	57	0	0	27	30	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	808,418	747,937	8.1%	388,873	342,461	360,075	344,326	6,291	6,033	53,178	55,117	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,516	1,669	-9.2%	90	91	140	176	66	79	1,220	1,325	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	242	329	-26.2%	4	9	87	109	18	26	133	185	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	83	140	-40.9%	0	0	10	10	2	2	70	128	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	83,303	79,362	5.0%	1,101	751	26,477	26,697	5,163	4,911	50,563	47,004	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	63,667	72,972	-12.8%	46,180	51,621	15,869	19,579	79	96	1,539	1,676	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,623	3,685	-28.8%	1,717	2,105	680	1,229	29	81	197	271	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	429	540	-20.5%	302	313	27	67	3	3	98	158	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	891,720	827,300	7.8%	389,973	343,212	386,552	371,023	11,454	10,944	103,741	102,121	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January									
	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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	Percentage Change
Residential	130,795	137,531	-4.9%	15,703	16,638	-5.6%	12.01	12.10	-0.7%
Commercial	110,334	110,941	-0.5%	11,010	11,387	-3.3%	9.98	10.26	-2.7%
Industrial	76,287	77,242	-1.2%	4,895	5,127	-4.5%	6.42	6.64	-3.3%
Transportation	659	670	-1.6%	62	71	-12.4%	9.46	10.62	-10.9%
All Sectors	318,075	326,384	-2.5%	31,670	33,223	-4.7%	9.96	10.18	-2.2%

YTD = Year to Date

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	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
Coal (1000 tons)	53,356	72,404	40.55	44.17	281	318	53,356	72,404	40.55	44.17
Petroleum Liquids (1000 barrels)	1,499	2,182	47.24	77.12	173	206	1,499	2,182	47.24	77.12
Petroleum Coke (1000 tons)	341	484	38.93	57.48	11	12	341	484	38.93	57.48
Natural Gas (1000 Mcf)	793,369	735,038	3.11	4.23	730	717	793,369	735,038	3.11	4.23

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
Coal (1000 tons)	39,300	53,439	41.78	44.72	202	223	39,300	53,439	41.78	44.72
Petroleum Liquids (1000 barrels)	1,058	1,452	47.57	71.71	110	129	1,058	1,452	47.57	71.71
Petroleum Coke (1000 tons)	278	404	32.96	55.36	8	8	278	404	32.96	55.36
Natural Gas (1000 Mcf)	376,962	329,825	3.39	4.38	388	375	376,962	329,825	3.39	4.38

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
Coal (1000 tons)	13,412	18,177	35.88	41.66	58	71	13,412	18,177	35.88	41.66
Petroleum Liquids (1000 barrels)	419	703	45.22	90.54	53	68	419	703	45.22	90.54
Petroleum Coke (1000 tons)	49	52	W	W	1	2	49	52	66.55	67.25
Natural Gas (1000 Mcf)	355,169	346,044	2.87	4.18	293	293	355,169	346,044	2.87	4.18

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
Coal (1000 tons)	6	14	W	W	1	3	6	14	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)	1,203	545	W	W	3	3	1,203	545	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	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
Coal (1000 tons)	638	773	W	W	20	21	638	773	W	W
Petroleum Liquids (1000 barrels)	23	26	67.07	76.07	10	9	23	26	67.07	76.07
Petroleum Coke (1000 tons)	15	29	W	W	2	2	15	29	W	W
Natural Gas (1000 Mcf)	60,035	58,625	W	W	46	46	60,035	58,625	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	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
Coal	1,019,963	1,398,063	2.12	2.29	281	318	1,019,963	1,398,063	2.12	2.29
Petroleum Liquids	8,932	13,202	7.92	12.74	173	206	8,932	13,202	7.92	12.74
Petroleum Coke	9,639	13,724	1.38	2.03	11	12	9,639	13,724	1.38	2.03
Natural Gas	821,121	758,731	3.01	4.10	730	717	821,121	758,731	3.01	4.10
Fossil Fuels	1,859,656	2,183,721	2.52	2.93	914	932	1,859,656	2,183,721	2.52	2.93

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
Coal	757,172	1,036,958	2.17	2.30	202	223	757,172	1,036,958	2.17	2.30
Petroleum Liquids	6,397	8,826	7.86	11.80	110	129	6,397	8,826	7.86	11.80
Petroleum Coke	7,935	11,509	1.15	1.94	8	8	7,935	11,509	1.15	1.94
Natural Gas	389,788	339,941	3.28	4.25	388	375	389,788	339,941	3.28	4.25
Fossil Fuels	1,161,292	1,397,234	2.56	2.83	517	520	1,161,292	1,397,234	2.56	2.83

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
Coal	248,356	343,021	1.94	2.21	58	71	248,356	343,021	1.94	2.21
Petroleum Liquids	2,394	4,217	7.90	15.12	53	68	2,394	4,217	7.90	15.12
Petroleum Coke	1,304	1,427	W	W	1	2	1,304	1,427	2.50	2.43
Natural Gas	368,054	357,604	2.77	4.05	293	293	368,054	357,604	2.77	4.05
Fossil Fuels	620,108	706,269	W	W	345	360	620,108	706,269	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	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
Coal	139	309	W	W	1	3	139	309	W	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	1,241	552	W	W	3	3	1,241	552	W	W
Fossil Fuels	1,379	861	W	W	3	3	1,379	861	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	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
Coal	14,296	17,776	W	W	20	21	14,296	17,776	W	W
Petroleum Liquids	142	159	10.87	12.53	10	9	142	159	10.87	12.53
Petroleum Coke	400	788	W	W	2	2	400	788	W	W
Natural Gas	62,039	60,633	W	W	46	46	62,039	60,633	W	W
Fossil Fuels	76,876	79,356	W	W	49	49	76,876	79,356	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-January 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
Year to Date															
2014	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
2015	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
2016	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
Rolling 12 Months Ending in January															
2015	1,557,110	14,292	11,838	1,137,359	12,382	798,273	262,364	18,158	259,211	-6,435	13,432	4,077,985	9,649	25,356	27,807
2016	1,337,311	16,886	10,926	1,343,237	12,924	795,443	252,072	26,801	274,859	-4,854	13,296	4,078,900	12,343	35,881	39,144

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-January 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
Year to Date													
2014	17,911	697	54	3,626	967	584	299	1,355	21,634	47,127	530	1,227	1,281
2015	15,262	1,154	64	3,794	983	617	299	1,475	24,631	48,280	643	1,797	1,861
2016	18,511	1,460	86	3,573	964	627	293	1,436	25,535	52,485	845	2,306	2,392
Rolling 12 Months Ending in January													
2015	179,006	15,707	2,451	42,508	11,236	7,262	3,202	15,997	262,364	539,732	9,649	25,356	27,807
2016	194,176	23,538	3,263	42,137	11,215	7,426	3,177	16,728	252,072	553,732	12,343	35,881	39,144

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.
Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms..
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.A. Net Generation by Energy Source: Electric Utilities, 2006-January 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
Year to Date												
2014	115,862	2,445	949	41,208	13	38,847	19,673	53	3,286	-218	47	222,165
2015	96,609	1,160	813	45,834	27	39,377	22,809	77	3,135	-460	28	209,407
2016	85,132	940	832	52,140	NM	37,985	23,212	104	3,195	-230	50	203,364
Rolling 12 Months Ending in January												
2015	1,153,819	9,411	9,011	506,041	125	420,401	241,321	1,241	33,126	-5,385	603	2,369,715
2016	1,005,512	10,370	8,302	620,780	NM	415,288	230,533	1,685	35,702	-3,876	518	2,324,997

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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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-January 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
Year to Date												
2014	40,054	3,281	109	41,761	253	34,316	1,837	681	18,727	-72	533	141,480
2015	34,845	684	129	47,672	372	34,893	1,689	1,117	16,481	-92	584	138,374
2016	27,671	364	42	49,632	365	34,551	2,190	1,411	19,539	-82	577	136,260
Rolling 12 Months Ending in January												
2015	390,492	4,192	1,430	537,669	3,366	377,872	19,713	16,522	194,478	-1,050	6,740	1,551,424
2016	319,775	5,783	1,520	628,424	3,443	380,155	20,177	24,526	207,836	-979	6,764	1,597,425

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-January 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
Year to Date															
2014	76	102	1	651	0	0	4	16	264	0	104	1,218	253	269	269
2015	53	26	1	619	0	0	NM	23	244	0	92	1,062	286	310	310
2016	41	11	1	656	0	0	NM	29	231	0	91	1,065	342	371	371
Rolling 12 Months Ending in January															
2015	572	171	9	7,195	0	0	NM	377	2,842	0	1,160	12,364	4,383	4,760	4,760
2016	476	NM	8	7,727	0	0	NM	560	2,822	0	1,209	13,032	5,080	5,640	5,640

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 and 2016 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
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Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
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-January 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
Year to Date															
2014	1,105	85	100	7,441	667	0	120	1	2,466	0	408	12,391	51	52	52
2015	992	59	98	7,685	894	0	130	NM	2,572	0	359	12,791	66	NM	NM
2016	907	45	106	7,551	885	0	127	NM	2,439	0	402	12,464	80	NM	NM
Rolling 12 Months Ending in January															
2015	12,227	518	1,388	86,454	8,891	0	1,293	NM	28,765	0	4,929	144,483	958	NM	NM
2016	11,547	546	NM	86,306	9,299	0	1,320	NM	28,499	0	4,805	143,446	1,205	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.
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Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
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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-January 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
Year to Date	
2014	226
2015	291
2016	423
Rolling 12 Months Ending in January	
2015	4,309
2016	6,059

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, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	9,205	9,760	-5.7%	317	512	8,516	8,818	106	122	266	307
Connecticut	3,199	3,512	-8.9%	NM	NM	3,117	3,435	36	36	41	NM
Maine	1,271	1,281	-0.8%	NM	NM	1,047	1,009	17	18	207	255
Massachusetts	2,544	2,360	7.8%	49	28	2,438	2,263	42	55	NM	NM
New Hampshire	1,604	2,085	-23.1%	152	394	1,444	1,682	NM	NM	NM	NM
Rhode Island	349	332	5.1%	1	1	342	324	NM	NM	0	0
Vermont	239	189	26.3%	110	85	128	104	NM	NM	0	0
Middle Atlantic	37,836	38,699	-2.2%	2,921	3,023	34,310	35,086	201	192	404	397
New Jersey	6,674	6,240	7.0%	-5	-5	6,563	6,146	54	50	62	49
New York	11,600	11,874	-2.3%	2,914	3,020	8,489	8,658	111	108	86	88
Pennsylvania	19,562	20,585	-5.0%	NM	NM	19,258	20,282	36	34	257	260
East North Central	54,126	57,347	-5.6%	23,686	25,925	29,382	30,347	178	175	881	900
Illinois	17,071	17,974	-5.0%	716	880	16,077	16,809	40	50	238	235
Indiana	9,527	10,158	-6.2%	7,829	8,791	1,411	1,071	20	18	267	279
Michigan	10,603	10,219	3.8%	7,600	7,578	2,778	2,427	NM	81	139	134
Ohio	11,001	12,764	-13.8%	2,852	3,687	8,057	8,980	NM	NM	82	88
Wisconsin	5,924	6,231	-4.9%	4,689	4,989	1,059	1,060	NM	NM	155	164
West North Central	30,406	30,749	-1.1%	25,970	26,410	4,034	3,925	NM	55	342	358
Iowa	5,136	5,431	-5.4%	3,815	4,071	1,130	1,157	NM	22	171	181
Kansas	4,118	4,011	2.7%	3,110	3,155	1,000	851	0	0	NM	NM
Minnesota	5,267	5,320	-1.0%	4,206	4,294	926	887	NM	NM	111	119
Missouri	7,922	8,155	-2.9%	7,711	7,999	194	140	14	12	NM	NM
Nebraska	3,565	3,385	5.3%	3,269	3,047	261	303	NM	NM	33	33
North Dakota	3,417	3,500	-2.3%	3,030	3,068	370	416	NM	NM	NM	16
South Dakota	982	946	3.8%	829	776	153	170	NM	NM	0	0
South Atlantic	69,391	69,042	0.5%	58,545	58,512	9,170	8,825	110	109	1,566	1,596
Delaware	527	663	-20.5%	NM	NM	431	563	NM	NM	92	96
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	17,999	18,044	-0.3%	16,657	16,812	892	780	NM	NM	443	448
Georgia	11,296	10,925	3.4%	9,631	9,145	1,248	1,366	NM	NM	416	411
Maryland	2,906	3,269	-11.1%	NM	NM	2,845	3,192	40	40	20	36
North Carolina	12,399	11,890	4.3%	11,580	11,194	675	524	23	21	122	151
South Carolina	8,796	8,719	0.9%	8,484	8,448	131	116	NM	NM	180	154
Virginia	8,281	7,641	8.4%	6,682	6,572	1,349	840	32	35	218	194
West Virginia	7,180	7,885	-8.9%	5,505	6,335	1,601	1,445	0	0	75	105
East South Central	33,365	34,962	-4.6%	28,258	29,765	4,306	4,401	NM	NM	787	785
Alabama	13,015	13,484	-3.5%	9,404	9,542	3,238	3,561	0	0	373	381
Kentucky	7,612	8,230	-7.5%	7,520	8,156	32	18	0	0	59	56
Mississippi	5,983	5,577	7.3%	4,794	4,610	1,019	803	NM	NM	169	161
Tennessee	6,754	7,672	-12.0%	6,539	7,457	17	18	NM	NM	186	186
West South Central	56,431	58,513	-3.6%	19,466	19,646	30,447	31,994	76	77	6,442	6,796
Arkansas	5,127	4,564	12.3%	4,070	3,254	902	1,140	NM	NM	155	169
Louisiana	9,016	9,425	-4.3%	5,188	5,438	1,006	1,172	NM	NM	2,806	2,797
Oklahoma	6,439	6,398	0.6%	3,866	4,330	2,503	2,008	NM	NM	70	61
Texas	35,849	38,126	-6.0%	6,343	6,623	26,035	27,675	59	58	3,411	3,769
Mountain	31,259	30,642	2.0%	24,907	24,710	6,061	5,664	37	34	255	234
Arizona	8,600	8,429	2.0%	7,601	7,473	988	945	12	NM	0	0
Colorado	4,726	4,640	1.8%	3,725	3,643	994	992	NM	NM	NM	NM
Idaho	1,341	1,306	2.7%	819	899	476	362	0	0	47	45
Montana	2,468	2,820	-12.5%	748	961	1,718	1,858	0	0	NM	NM
Nevada	3,205	2,697	18.8%	2,507	2,049	672	621	9	NM	17	NM
New Mexico	2,930	2,542	15.3%	2,201	2,074	719	457	9	NM	NM	NM
Utah	3,484	3,791	-8.1%	3,275	3,623	157	128	NM	NM	46	34
Wyoming	4,505	4,417	2.0%	4,031	3,988	336	303	0	0	138	125
Pacific Contiguous	29,802	30,535	-2.4%	18,358	19,888	9,731	9,041	239	240	1,474	1,366
California	14,881	14,202	4.8%	5,744	5,508	7,614	7,268	225	228	1,298	1,198
Oregon	5,418	5,546	-2.3%	4,068	4,547	1,291	932	NM	NM	49	58
Washington	9,502	10,787	-11.9%	8,546	9,833	826	840	NM	NM	127	111
Pacific Noncontiguous	1,331	1,385	-3.9%	935	1,015	303	273	47	46	NM	51
Alaska	540	605	-10.7%	490	557	22	21	15	15	NM	NM
Hawaii	791	780	1.3%	445	458	281	252	32	31	33	39
U.S. Total	353,153	361,634	-2.3%	203,364	209,407	136,260	138,374	1,065	1,062	12,464	12,791

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

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	9,205	9,760	-5.7%	317	512	8,516	8,818	106	122	266	307
Connecticut	3,199	3,512	-8.9%	NM	NM	3,117	3,435	36	36	41	NM
Maine	1,271	1,281	-0.8%	NM	NM	1,047	1,009	17	18	207	255
Massachusetts	2,544	2,360	7.8%	49	28	2,438	2,263	42	55	NM	NM
New Hampshire	1,604	2,085	-23.1%	152	394	1,444	1,682	NM	NM	NM	NM
Rhode Island	349	332	5.1%	1	1	342	324	NM	NM	0	0
Vermont	239	189	26.3%	110	85	128	104	NM	NM	0	0
Middle Atlantic	37,836	38,699	-2.2%	2,921	3,023	34,310	35,086	201	192	404	397
New Jersey	6,674	6,240	7.0%	-5	-5	6,563	6,146	54	50	62	49
New York	11,600	11,874	-2.3%	2,914	3,020	8,489	8,658	111	108	86	88
Pennsylvania	19,562	20,585	-5.0%	NM	NM	19,258	20,282	36	34	257	260
East North Central	54,126	57,347	-5.6%	23,686	25,925	29,382	30,347	178	175	881	900
Illinois	17,071	17,974	-5.0%	716	880	16,077	16,809	40	50	238	235
Indiana	9,527	10,158	-6.2%	7,829	8,791	1,411	1,071	20	18	267	279
Michigan	10,603	10,219	3.8%	7,600	7,578	2,778	2,427	NM	81	139	134
Ohio	11,001	12,764	-13.8%	2,852	3,687	8,057	8,980	NM	NM	82	88
Wisconsin	5,924	6,231	-4.9%	4,689	4,989	1,059	1,060	NM	NM	155	164
West North Central	30,406	30,749	-1.1%	25,970	26,410	4,034	3,925	NM	55	342	358
Iowa	5,136	5,431	-5.4%	3,815	4,071	1,130	1,157	NM	22	171	181
Kansas	4,118	4,011	2.7%	3,110	3,155	1,000	851	0	0	NM	NM
Minnesota	5,267	5,320	-1.0%	4,206	4,294	926	887	NM	NM	111	119
Missouri	7,922	8,155	-2.9%	7,711	7,999	194	140	14	12	NM	NM
Nebraska	3,565	3,385	5.3%	3,269	3,047	261	303	NM	NM	33	33
North Dakota	3,417	3,500	-2.3%	3,030	3,068	370	416	NM	NM	NM	16
South Dakota	982	946	3.8%	829	776	153	170	NM	NM	0	0
South Atlantic	69,391	69,042	0.5%	58,545	58,512	9,170	8,825	110	109	1,566	1,596
Delaware	527	663	-20.5%	NM	NM	431	563	NM	NM	92	96
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	17,999	18,044	-0.3%	16,657	16,812	892	780	NM	NM	443	448
Georgia	11,296	10,925	3.4%	9,631	9,145	1,248	1,366	NM	NM	416	411
Maryland	2,906	3,269	-11.1%	NM	NM	2,845	3,192	40	40	20	36
North Carolina	12,399	11,890	4.3%	11,580	11,194	675	524	23	21	122	151
South Carolina	8,796	8,719	0.9%	8,484	8,448	131	116	NM	NM	180	154
Virginia	8,281	7,641	8.4%	6,682	6,572	1,349	840	32	35	218	194
West Virginia	7,180	7,885	-8.9%	5,505	6,335	1,601	1,445	0	0	75	105
East South Central	33,365	34,962	-4.6%	28,258	29,765	4,306	4,401	NM	NM	787	785
Alabama	13,015	13,484	-3.5%	9,404	9,542	3,238	3,561	0	0	373	381
Kentucky	7,612	8,230	-7.5%	7,520	8,156	32	18	0	0	59	56
Mississippi	5,983	5,577	7.3%	4,794	4,610	1,019	803	NM	NM	169	161
Tennessee	6,754	7,672	-12.0%	6,539	7,457	17	18	NM	NM	186	186
West South Central	56,431	58,513	-3.6%	19,466	19,646	30,447	31,994	76	77	6,442	6,796
Arkansas	5,127	4,564	12.3%	4,070	3,254	902	1,140	NM	NM	155	169
Louisiana	9,016	9,425	-4.3%	5,188	5,438	1,006	1,172	NM	NM	2,806	2,797
Oklahoma	6,439	6,398	0.6%	3,866	4,330	2,503	2,008	NM	NM	70	61
Texas	35,849	38,126	-6.0%	6,343	6,623	26,035	27,675	59	58	3,411	3,769
Mountain	31,259	30,642	2.0%	24,907	24,710	6,061	5,664	37	34	255	234
Arizona	8,600	8,429	2.0%	7,601	7,473	988	945	12	NM	0	0
Colorado	4,726	4,640	1.8%	3,725	3,643	994	992	NM	NM	NM	NM
Idaho	1,341	1,306	2.7%	819	899	476	362	0	0	47	45
Montana	2,468	2,820	-12.5%	748	961	1,718	1,858	0	0	NM	NM
Nevada	3,205	2,697	18.8%	2,507	2,049	672	621	9	NM	17	NM
New Mexico	2,930	2,542	15.3%	2,201	2,074	719	457	9	NM	NM	NM
Utah	3,484	3,791	-8.1%	3,275	3,623	157	128	NM	NM	46	34
Wyoming	4,505	4,417	2.0%	4,031	3,988	336	303	0	0	138	125
Pacific Contiguous	29,802	30,535	-2.4%	18,358	19,888	9,731	9,041	239	240	1,474	1,366
California	14,881	14,202	4.8%	5,744	5,508	7,614	7,268	225	228	1,298	1,198
Oregon	5,418	5,546	-2.3%	4,068	4,547	1,291	932	NM	NM	49	58
Washington	9,502	10,787	-11.9%	8,546	9,833	826	840	NM	NM	127	111
Pacific Noncontiguous	1,331	1,385	-3.9%	935	1,015	303	273	47	46	NM	51
Alaska	540	605	-10.7%	490	557	22	21	15	15	NM	NM
Hawaii	791	780	1.3%	445	458	281	252	32	31	33	39
U.S. Total	353,153	361,634	-2.3%	203,364	209,407	136,260	138,374	1,065	1,062	12,464	12,791

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

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	521	1,121	-53.5%	80	322	438	790	0	0	NM	9
Connecticut	44	205	-78.6%	0	0	44	205	0	0	0	0
Maine	9	14	-36.5%	0	0	8	8	0	0	1	6
Massachusetts	388	579	-32.9%	0	0	386	576	0	0	NM	NM
New Hampshire	80	322	-75.1%	80	322	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	6,281	8,238	-23.7%	0	0	6,216	8,164	NM	NM	66	72
New Jersey	120	303	-60.2%	0	0	120	303	0	0	0	0
New York	159	319	-50.3%	0	0	134	292	0	0	25	27
Pennsylvania	6,003	7,616	-21.2%	0	0	5,961	7,570	NM	NM	41	45
East North Central	26,315	31,282	-15.9%	16,295	19,072	9,785	11,948	9	12	226	250
Illinois	5,730	7,374	-22.3%	683	860	4,904	6,365	4	4	138	145
Indiana	6,664	7,885	-15.5%	6,177	7,449	483	430	3	4	NM	NM
Michigan	4,353	4,296	1.3%	4,302	4,244	36	35	1	4	14	14
Ohio	6,403	8,026	-20.2%	2,022	2,886	4,362	5,118	0	NM	19	21
Wisconsin	3,163	3,701	-14.5%	3,110	3,633	0	0	NM	NM	53	68
West North Central	18,378	19,155	-4.1%	18,112	18,866	NM	NM	12	19	251	268
Iowa	2,595	2,888	-10.2%	2,438	2,720	0	0	8	11	149	158
Kansas	2,082	2,125	-2.0%	2,082	2,125	0	0	0	0	0	0
Minnesota	2,474	2,589	-4.4%	2,411	2,523	0	0	NM	NM	62	66
Missouri	6,146	6,726	-8.6%	6,138	6,712	NM	NM	5	8	NM	NM
Nebraska	2,203	1,949	13.1%	2,172	1,916	0	0	0	0	31	33
North Dakota	2,641	2,616	0.9%	2,634	2,609	0	0	0	0	NM	7
South Dakota	236	262	-10.0%	236	262	0	0	0	0	0	0
South Atlantic	20,715	23,678	-12.5%	17,868	20,502	2,695	2,975	10	10	142	191
Delaware	130	118	10.4%	0	0	130	118	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,557	3,101	-17.5%	2,534	3,080	0	0	0	0	NM	NM
Georgia	2,970	3,010	-1.3%	2,949	2,977	0	0	0	0	NM	34
Maryland	1,060	1,539	-31.1%	0	0	1,053	1,521	0	NM	7	18
North Carolina	3,828	3,993	-4.1%	3,760	3,947	NM	NM	9	9	NM	NM
South Carolina	1,830	2,412	-24.1%	1,814	2,398	0	0	0	0	16	14
Virginia	1,498	1,933	-22.5%	1,379	1,819	81	79	NM	NM	36	34
West Virginia	6,842	7,572	-9.6%	5,431	6,281	1,394	1,242	0	0	17	49
East South Central	12,300	14,662	-16.1%	11,981	14,270	218	292	0	0	101	101
Alabama	2,480	3,068	-19.2%	2,464	3,053	0	0	0	0	NM	NM
Kentucky	6,440	7,494	-14.1%	6,440	7,494	0	0	0	0	0	0
Mississippi	482	663	-27.3%	263	371	218	292	0	0	0	0
Tennessee	2,898	3,437	-15.7%	2,813	3,352	0	0	0	0	85	85
West South Central	13,089	17,244	-24.1%	6,881	8,960	6,173	8,259	0	0	NM	NM
Arkansas	1,911	1,627	17.5%	1,503	1,575	401	47	0	0	7	6
Louisiana	1,074	1,878	-42.8%	724	964	349	914	0	0	0	0
Oklahoma	1,580	2,375	-33.5%	1,340	2,208	211	147	0	0	NM	NM
Texas	8,524	11,364	-25.0%	3,314	4,213	5,210	7,151	0	0	0	0
Mountain	15,241	16,347	-6.8%	13,569	14,574	1,628	1,729	0	0	44	44
Arizona	2,665	3,203	-16.8%	2,665	3,203	0	0	0	0	0	0
Colorado	2,750	2,884	-4.6%	2,744	2,879	NM	NM	0	0	NM	0
Idaho	NM	6	NM	0	0	0	0	0	0	NM	6
Montana	1,479	1,574	-6.0%	NM	NM	1,452	1,547	0	0	NM	NM
Nevada	153	211	-27.4%	83	133	71	79	0	0	0	0
New Mexico	1,715	1,571	9.2%	1,715	1,571	0	0	0	0	0	0
Utah	2,608	3,048	-14.4%	2,580	3,015	NM	NM	0	0	0	0
Wyoming	3,864	3,849	0.4%	3,756	3,747	NM	NM	0	0	38	37
Pacific Contiguous	715	612	17.0%	308	26	372	554	0	0	35	31
California	32	30	8.2%	0	0	0	0	0	0	32	30
Oregon	308	26	NM	308	26	0	0	0	0	0	0
Washington	375	556	-32.6%	0	0	372	554	0	0	3	2
Pacific Noncontiguous	196	159	22.8%	39	18	144	130	10	10	NM	NM
Alaska	66	44	49.3%	39	18	17	16	10	10	0	0
Hawaii	130	115	12.6%	0	0	127	114	0	0	NM	NM
U.S. Total	113,751	132,498	-14.1%	85,132	96,609	27,671	34,845	41	53	907	992

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

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

by State, by Sector, Year-to-Date through January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	521	1,121	-53.5%	80	322	438	790	0	0	NM	9
Connecticut	44	205	-78.6%	0	0	44	205	0	0	0	0
Maine	9	14	-36.5%	0	0	8	8	0	0	1	6
Massachusetts	388	579	-32.9%	0	0	386	576	0	0	NM	NM
New Hampshire	80	322	-75.1%	80	322	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	6,281	8,238	-23.7%	0	0	6,216	8,164	NM	NM	66	72
New Jersey	120	303	-60.2%	0	0	120	303	0	0	0	0
New York	159	319	-50.3%	0	0	134	292	0	0	25	27
Pennsylvania	6,003	7,616	-21.2%	0	0	5,961	7,570	NM	NM	41	45
East North Central	26,315	31,282	-15.9%	16,295	19,072	9,785	11,948	9	12	226	250
Illinois	5,730	7,374	-22.3%	683	860	4,904	6,365	4	4	138	145
Indiana	6,664	7,885	-15.5%	6,177	7,449	483	430	3	4	NM	NM
Michigan	4,353	4,296	1.3%	4,302	4,244	36	35	1	4	14	14
Ohio	6,403	8,026	-20.2%	2,022	2,886	4,362	5,118	0	NM	19	21
Wisconsin	3,163	3,701	-14.5%	3,110	3,633	0	0	NM	NM	53	68
West North Central	18,378	19,155	-4.1%	18,112	18,866	NM	NM	12	19	251	268
Iowa	2,595	2,888	-10.2%	2,438	2,720	0	0	8	11	149	158
Kansas	2,082	2,125	-2.0%	2,082	2,125	0	0	0	0	0	0
Minnesota	2,474	2,589	-4.4%	2,411	2,523	0	0	NM	NM	62	66
Missouri	6,146	6,726	-8.6%	6,138	6,712	NM	NM	5	8	NM	NM
Nebraska	2,203	1,949	13.1%	2,172	1,916	0	0	0	0	31	33
North Dakota	2,641	2,616	0.9%	2,634	2,609	0	0	0	0	NM	7
South Dakota	236	262	-10.0%	236	262	0	0	0	0	0	0
South Atlantic	20,715	23,678	-12.5%	17,868	20,502	2,695	2,975	10	10	142	191
Delaware	130	118	10.4%	0	0	130	118	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,557	3,101	-17.5%	2,534	3,080	0	0	0	0	NM	NM
Georgia	2,970	3,010	-1.3%	2,949	2,977	0	0	0	0	NM	34
Maryland	1,060	1,539	-31.1%	0	0	1,053	1,521	0	NM	7	18
North Carolina	3,828	3,993	-4.1%	3,760	3,947	NM	NM	9	9	NM	NM
South Carolina	1,830	2,412	-24.1%	1,814	2,398	0	0	0	0	16	14
Virginia	1,498	1,933	-22.5%	1,379	1,819	81	79	NM	NM	36	34
West Virginia	6,842	7,572	-9.6%	5,431	6,281	1,394	1,242	0	0	17	49
East South Central	12,300	14,662	-16.1%	11,981	14,270	218	292	0	0	101	101
Alabama	2,480	3,068	-19.2%	2,464	3,053	0	0	0	0	NM	NM
Kentucky	6,440	7,494	-14.1%	6,440	7,494	0	0	0	0	0	0
Mississippi	482	663	-27.3%	263	371	218	292	0	0	0	0
Tennessee	2,898	3,437	-15.7%	2,813	3,352	0	0	0	0	85	85
West South Central	13,089	17,244	-24.1%	6,881	8,960	6,173	8,259	0	0	NM	NM
Arkansas	1,911	1,627	17.5%	1,503	1,575	401	47	0	0	7	6
Louisiana	1,074	1,878	-42.8%	724	964	349	914	0	0	0	0
Oklahoma	1,580	2,375	-33.5%	1,340	2,208	211	147	0	0	NM	NM
Texas	8,524	11,364	-25.0%	3,314	4,213	5,210	7,151	0	0	0	0
Mountain	15,241	16,347	-6.8%	13,569	14,574	1,628	1,729	0	0	44	44
Arizona	2,665	3,203	-16.8%	2,665	3,203	0	0	0	0	0	0
Colorado	2,750	2,884	-4.6%	2,744	2,879	NM	NM	0	0	NM	0
Idaho	NM	6	NM	0	0	0	0	0	0	NM	6
Montana	1,479	1,574	-6.0%	NM	NM	1,452	1,547	0	0	NM	NM
Nevada	153	211	-27.4%	83	133	71	79	0	0	0	0
New Mexico	1,715	1,571	9.2%	1,715	1,571	0	0	0	0	0	0
Utah	2,608	3,048	-14.4%	2,580	3,015	NM	NM	0	0	0	0
Wyoming	3,864	3,849	0.4%	3,756	3,747	NM	NM	0	0	38	37
Pacific Contiguous	715	612	17.0%	308	26	372	554	0	0	35	31
California	32	30	8.2%	0	0	0	0	0	0	32	30
Oregon	308	26	NM	308	26	0	0	0	0	0	0
Washington	375	556	-32.6%	0	0	372	554	0	0	3	2
Pacific Noncontiguous	196	159	22.8%	39	18	144	130	10	10	NM	NM
Alaska	66	44	49.3%	39	18	17	16	10	10	0	0
Hawaii	130	115	12.6%	0	0	127	114	0	0	NM	NM
U.S. Total	113,751	132,498	-14.1%	85,132	96,609	27,671	34,845	41	53	907	992

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

Table 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	54	252	-78.7%	10	7	38	228	NM	14	NM	NM
Connecticut	7	13	-49.3%	1	NM	5	11	NM	NM	NM	NM
Maine	20	115	-83.1%	NM	NM	18	113	NM	NM	NM	NM
Massachusetts	20	95	-78.6%	7	1	11	85	NM	NM	NM	NM
New Hampshire	NM	16	NM	1	4	NM	11	NM	NM	NM	NM
Rhode Island	5	11	-53.4%	1	1	3	8	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	145	451	-67.8%	52	206	78	223	3	NM	12	15
New Jersey	10	52	-80.8%	NM	NM	10	52	NM	NM	NM	NM
New York	107	340	-68.6%	52	206	41	114	3	NM	11	14
Pennsylvania	28	58	-51.6%	NM	NM	27	57	NM	NM	NM	NM
East North Central	49	54	-10.2%	33	37	13	14	NM	NM	2	3
Illinois	8	4	89.9%	2	NM	6	3	1	NM	NM	NM
Indiana	12	14	-11.8%	11	12	NM	NM	NM	NM	1	1
Michigan	10	8	32.5%	10	8	0	NM	NM	NM	NM	NM
Ohio	16	22	-27.8%	8	9	7	11	NM	NM	NM	NM
Wisconsin	NM	7	NM	NM	6	NM	NM	NM	NM	NM	NM
West North Central	16	27	-40.3%	15	26	1	NM	NM	NM	NM	NM
Iowa	3	3	-11.1%	3	3	NM	NM	NM	NM	NM	NM
Kansas	3	7	-55.9%	3	7	0	0	0	0	0	0
Minnesota	2	NM	NM	NM	1	1	NM	NM	NM	NM	NM
Missouri	5	11	-52.6%	5	11	0	0	NM	NM	0	0
Nebraska	NM	2	NM	NM	2	0	0	0	0	0	0
North Dakota	NM	2	NM	NM	2	0	0	NM	NM	NM	NM
South Dakota	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
South Atlantic	391	418	-6.5%	263	291	116	110	NM	NM	10	12
Delaware	20	34	-40.7%	NM	NM	20	33	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	36	97	-62.7%	32	94	NM	NM	0	0	NM	NM
Georgia	34	41	-18.4%	9	16	19	19	NM	0	5	6
Maryland	37	30	21.8%	1	NM	35	26	NM	NM	NM	NM
North Carolina	60	76	-21.8%	33	68	26	7	NM	NM	NM	NM
South Carolina	27	36	-23.9%	25	29	NM	5	NM	NM	1	1
Virginia	167	93	80.3%	152	73	14	19	NM	NM	NM	NM
West Virginia	10	11	-10.7%	10	11	0	1	0	0	0	0
East South Central	39	38	3.2%	32	32	5	3	NM	NM	NM	NM
Alabama	12	16	-25.6%	4	10	4	3	0	0	NM	NM
Kentucky	8	10	-12.3%	8	10	0	0	0	0	0	0
Mississippi	4	2	165.8%	4	1	0	0	0	0	0	0
Tennessee	15	11	34.2%	15	11	NM	NM	NM	NM	NM	NM
West South Central	16	32	-49.3%	13	20	2	11	NM	NM	NM	NM
Arkansas	7	6	8.6%	6	3	1	3	0	0	0	0
Louisiana	2	18	-87.7%	1	14	1	4	0	0	0	0
Oklahoma	2	NM	NM	2	NM	0	0	NM	NM	NM	NM
Texas	5	8	-33.9%	4	4	1	4	NM	NM	NM	NM
Mountain	17	21	-16.7%	15	20	2	NM	NM	NM	NM	NM
Arizona	3	6	-57.6%	3	6	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	NM	NM	NM	NM	1	0	0	0	0	0
Nevada	1	2	-43.2%	1	2	0	0	0	0	0	0
New Mexico	7	6	15.6%	7	6	0	0	0	0	NM	NM
Utah	1	NM	NM	1	1	NM	NM	0	0	NM	NM
Wyoming	3	4	-9.7%	3	3	0	0	0	0	NM	NM
Pacific Contiguous	5	6	-24.1%	3	3	NM	NM	NM	NM	NM	NM
California	4	5	-24.5%	3	3	NM	NM	NM	NM	NM	NM
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	NM	1	NM	NM	NM	0	NM	NM	NM	NM	1
Pacific Noncontiguous	627	630	-0.5%	504	518	108	91	1	NM	NM	21
Alaska	73	73	-0.7%	68	69	0	0	NM	NM	5	4
Hawaii	554	557	-0.5%	436	449	108	91	0	0	NM	17
U.S. Total	1,359	1,929	-29.6%	940	1,160	364	684	11	26	45	59

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

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

by State, by Sector, Year-to-Date through January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	54	252	-78.7%	10	7	38	228	NM	14	NM	NM
Connecticut	7	13	-49.3%	1	NM	5	11	NM	NM	NM	NM
Maine	20	115	-83.1%	NM	NM	18	113	NM	NM	NM	NM
Massachusetts	20	95	-78.6%	7	1	11	85	NM	NM	NM	NM
New Hampshire	NM	16	NM	1	4	NM	11	NM	NM	NM	NM
Rhode Island	5	11	-53.4%	1	1	3	8	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	145	451	-67.8%	52	206	78	223	3	NM	12	15
New Jersey	10	52	-80.8%	NM	NM	10	52	NM	NM	NM	NM
New York	107	340	-68.6%	52	206	41	114	3	NM	11	14
Pennsylvania	28	58	-51.6%	NM	NM	27	57	NM	NM	NM	NM
East North Central	49	54	-10.2%	33	37	13	14	NM	NM	2	3
Illinois	8	4	89.9%	2	NM	6	3	1	NM	NM	NM
Indiana	12	14	-11.8%	11	12	NM	NM	NM	NM	1	1
Michigan	10	8	32.5%	10	8	0	NM	NM	NM	NM	NM
Ohio	16	22	-27.8%	8	9	7	11	NM	NM	NM	NM
Wisconsin	NM	7	NM	NM	6	NM	NM	NM	NM	NM	NM
West North Central	16	27	-40.3%	15	26	1	NM	NM	NM	NM	NM
Iowa	3	3	-11.1%	3	3	NM	NM	NM	NM	NM	NM
Kansas	3	7	-55.9%	3	7	0	0	0	0	0	0
Minnesota	2	NM	NM	NM	1	1	NM	NM	NM	NM	NM
Missouri	5	11	-52.6%	5	11	0	0	NM	NM	0	0
Nebraska	NM	2	NM	NM	2	0	0	0	0	0	0
North Dakota	NM	2	NM	NM	2	0	0	NM	NM	NM	NM
South Dakota	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
South Atlantic	391	418	-6.5%	263	291	116	110	NM	NM	10	12
Delaware	20	34	-40.7%	NM	NM	20	33	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	36	97	-62.7%	32	94	NM	NM	0	0	NM	NM
Georgia	34	41	-18.4%	9	16	19	19	NM	0	5	6
Maryland	37	30	21.8%	1	NM	35	26	NM	NM	NM	NM
North Carolina	60	76	-21.8%	33	68	26	7	NM	NM	NM	NM
South Carolina	27	36	-23.9%	25	29	NM	5	NM	NM	1	1
Virginia	167	93	80.3%	152	73	14	19	NM	NM	NM	NM
West Virginia	10	11	-10.7%	10	11	0	1	0	0	0	0
East South Central	39	38	3.2%	32	32	5	3	NM	NM	NM	NM
Alabama	12	16	-25.6%	4	10	4	3	0	0	NM	NM
Kentucky	8	10	-12.3%	8	10	0	0	0	0	0	0
Mississippi	4	2	165.8%	4	1	0	0	0	0	0	0
Tennessee	15	11	34.2%	15	11	NM	NM	NM	NM	NM	NM
West South Central	16	32	-49.3%	13	20	2	11	NM	NM	NM	NM
Arkansas	7	6	8.6%	6	3	1	3	0	0	0	0
Louisiana	2	18	-87.7%	1	14	1	4	0	0	0	0
Oklahoma	2	NM	NM	2	NM	0	0	NM	NM	NM	NM
Texas	5	8	-33.9%	4	4	1	4	NM	NM	NM	NM
Mountain	17	21	-16.7%	15	20	2	NM	NM	NM	NM	NM
Arizona	3	6	-57.6%	3	6	0	0	NM	NM	0	0
Colorado	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
Idaho	NM	NM	NM	NM	NM	0	0	0	0	0	0
Montana	NM	NM	NM	NM	NM	1	0	0	0	0	0
Nevada	1	2	-43.2%	1	2	0	0	0	0	0	0
New Mexico	7	6	15.6%	7	6	0	0	0	0	NM	NM
Utah	1	NM	NM	1	1	NM	NM	0	0	NM	NM
Wyoming	3	4	-9.7%	3	3	0	0	0	0	NM	NM
Pacific Contiguous	5	6	-24.1%	3	3	NM	NM	NM	NM	NM	NM
California	4	5	-24.5%	3	3	NM	NM	NM	NM	NM	NM
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	NM	1	NM	NM	NM	0	NM	NM	NM	NM	1
Pacific Noncontiguous	627	630	-0.5%	504	518	108	91	1	NM	NM	21
Alaska	73	73	-0.7%	68	69	0	0	NM	NM	5	4
Hawaii	554	557	-0.5%	436	449	108	91	0	0	NM	17
U.S. Total	1,359	1,929	-29.6%	940	1,160	364	684	11	26	45	59

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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 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 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	17	NM	0	0	0	0	0	0	NM	17
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	17	NM	0	0	0	0	0	0	NM	17
East North Central	213	292	-27.1%	186	182	1	87	0	0	NM	23
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	185	120	53.9%	185	120	0	0	0	0	0	0
Michigan	NM	76	NM	0	59	3	3	0	0	NM	NM
Ohio	NM	84	NM	0	0	-1	84	0	0	NM	0
Wisconsin	9	12	-28.0%	1	3	0	0	0	0	8	9
West North Central	NM	NM	NM	0	0	0	0	1	1	NM	NM
Iowa	NM	NM	NM	0	0	0	0	1	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	201	142	41.9%	189	124	0	0	0	0	12	18
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	189	124	52.9%	189	124	0	0	0	0	0	0
Georgia	12	18	-33.1%	0	0	0	0	0	0	12	18
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	52	108	-51.7%	52	108	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	52	108	-51.7%	52	108	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	446	433	2.9%	404	398	0	0	0	0	NM	35
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	433	420	3.0%	404	398	0	0	0	0	NM	22
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	13	NM	0	0	0	0	0	0	NM	13
Mountain	40	41	-2.5%	0	0	40	41	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	40	41	-2.5%	0	0	40	41	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	980	1,041	-5.8%	832	813	42	129	1	1	106	98

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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 January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 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	NM	17	NM	0	0	0	0	0	0	NM	17
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	17	NM	0	0	0	0	0	0	NM	17
East North Central	213	292	-27.1%	186	182	1	87	0	0	NM	23
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	185	120	53.9%	185	120	0	0	0	0	0	0
Michigan	NM	76	NM	0	59	3	3	0	0	NM	NM
Ohio	NM	84	NM	0	0	-1	84	0	0	NM	0
Wisconsin	9	12	-28.0%	1	3	0	0	0	0	8	9
West North Central	NM	NM	NM	0	0	0	0	1	1	NM	NM
Iowa	NM	NM	NM	0	0	0	0	1	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	201	142	41.9%	189	124	0	0	0	0	12	18
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	189	124	52.9%	189	124	0	0	0	0	0	0
Georgia	12	18	-33.1%	0	0	0	0	0	0	12	18
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	52	108	-51.7%	52	108	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	52	108	-51.7%	52	108	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	446	433	2.9%	404	398	0	0	0	0	NM	35
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	433	420	3.0%	404	398	0	0	0	0	NM	22
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	13	NM	0	0	0	0	0	0	NM	13
Mountain	40	41	-2.5%	0	0	40	41	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	40	41	-2.5%	0	0	40	41	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	980	1,041	-5.8%	832	813	42	129	1	1	106	98

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, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	3,910	3,661	6.8%	NM	4	3,723	3,484	78	81	107	92
Connecticut	1,561	1,561	-0.1%	0	0	1,484	1,494	NM	NM	41	NM
Maine	402	311	29.3%	0	0	349	266	NM	NM	51	43
Massachusetts	1,312	972	35.0%	NM	3	1,263	915	35	43	NM	NM
New Hampshire	312	518	-39.7%	0	0	308	514	NM	NM	NM	NM
Rhode Island	323	299	8.1%	0	0	319	295	NM	NM	0	0
Vermont	0	0	-95.1%	0	0	0	0	0	0	0	0
Middle Atlantic	12,187	11,351	7.4%	904	1,070	11,006	10,037	102	93	174	151
New Jersey	3,213	2,564	25.3%	NM	NM	3,153	2,511	NM	NM	NM	NM
New York	4,168	4,220	-1.2%	896	1,063	3,178	3,073	72	66	NM	NM
Pennsylvania	4,806	4,567	5.2%	NM	NM	4,675	4,453	NM	NM	118	101
East North Central	9,144	7,675	19.1%	3,956	3,365	4,882	4,046	138	129	167	135
Illinois	1,100	816	34.8%	23	13	1,003	724	35	45	39	NM
Indiana	1,707	1,424	19.9%	1,382	1,147	260	220	14	NM	50	46
Michigan	2,132	1,693	25.9%	489	426	1,532	1,181	NM	52	NM	34
Ohio	2,845	2,679	6.2%	784	776	2,046	1,888	NM	NM	NM	NM
Wisconsin	1,360	1,063	27.9%	1,277	1,002	41	34	NM	NM	NM	NM
West North Central	1,478	991	49.2%	1,255	913	167	38	NM	NM	NM	NM
Iowa	251	185	35.7%	234	171	0	0	NM	NM	NM	NM
Kansas	51	40	25.2%	44	36	0	0	0	0	NM	NM
Minnesota	764	333	129.6%	662	299	77	15	NM	NM	NM	NM
Missouri	296	325	-8.9%	202	301	90	24	4	0	NM	NM
Nebraska	9	19	-49.2%	NM	19	0	0	NM	NM	1	NM
North Dakota	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
South Dakota	70	68	4.0%	70	68	0	0	0	0	0	0
South Atlantic	24,400	22,841	6.8%	20,346	19,312	3,712	3,220	48	41	295	268
Delaware	349	489	-28.8%	NM	NM	273	404	0	0	72	83
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	11,777	11,278	4.4%	11,068	10,742	582	415	NM	NM	124	119
Georgia	4,191	4,303	-2.6%	3,010	2,992	1,142	1,289	0	0	40	22
Maryland	187	139	34.9%	0	0	144	101	NM	NM	NM	NM
North Carolina	3,330	3,162	5.3%	2,984	2,848	334	303	1	0	NM	11
South Carolina	1,220	944	29.3%	1,123	869	90	72	NM	0	6	2
Virginia	3,317	2,494	33.0%	2,152	1,850	1,132	618	NM	NM	32	26
West Virginia	23	26	-10.8%	6	8	15	18	0	0	2	NM
East South Central	10,712	9,674	10.7%	6,483	5,438	4,043	4,063	NM	NM	172	162
Alabama	4,827	5,063	-4.7%	1,518	1,436	3,213	3,535	0	0	97	92
Kentucky	697	221	215.1%	642	184	31	17	0	0	NM	NM
Mississippi	4,350	3,756	15.8%	3,513	3,208	799	510	NM	NM	36	36
Tennessee	838	634	32.2%	810	610	NM	NM	NM	NM	16	14
West South Central	28,508	28,556	-0.2%	8,503	6,992	14,474	15,644	69	70	5,462	5,849
Arkansas	1,193	1,345	-11.3%	678	233	482	1,078	NM	NM	34	34
Louisiana	5,821	5,017	16.0%	2,999	2,540	529	163	NM	NM	2,276	2,296
Oklahoma	2,989	2,846	5.0%	2,004	1,915	971	919	0	0	NM	NM
Texas	18,505	19,347	-4.4%	2,822	2,303	12,492	13,484	53	52	3,138	3,507
Mountain	7,660	5,991	27.9%	5,820	4,274	1,689	1,574	30	29	120	114
Arizona	2,039	1,515	34.6%	1,284	728	745	777	10	NM	0	0
Colorado	1,015	830	22.2%	847	638	166	191	0	0	NM	NM
Idaho	416	325	28.1%	214	206	194	116	0	0	NM	NM
Montana	77	52	47.9%	71	48	NM	NM	0	0	0	0
Nevada	2,498	1,822	37.1%	2,324	1,649	153	148	NM	NM	16	NM
New Mexico	855	797	7.2%	460	480	385	306	8	NM	NM	NM
Utah	699	595	17.3%	618	523	NM	NM	NM	NM	34	34
Wyoming	61	53	14.4%	NM	NM	NM	NM	0	0	59	51
Pacific Contiguous	11,735	10,761	9.1%	4,634	4,164	5,935	5,565	150	146	1,017	887
California	8,919	8,959	-0.4%	2,966	3,076	4,822	4,872	140	137	992	873
Oregon	1,507	1,162	29.7%	562	514	923	635	NM	NM	NM	NM
Washington	1,310	641	104.4%	1,106	573	190	58	NM	NM	12	8
Pacific Noncontiguous	246	310	-20.6%	237	303	0	0	NM	NM	NM	NM
Alaska	246	310	-20.6%	237	303	0	0	NM	NM	NM	NM
Hawaii	0	0	-	0	0	0	0	0	0	0	0
U.S. Total	109,980	101,811	8.0%	52,140	45,834	49,632	47,672	656	619	7,551	7,685

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

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

by State, by Sector, Year-to-Date through January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	3,910	3,661	6.8%	NM	4	3,723	3,484	78	81	107	92
Connecticut	1,561	1,561	-0.1%	0	0	1,484	1,494	NM	NM	41	NM
Maine	402	311	29.3%	0	0	349	266	NM	NM	51	43
Massachusetts	1,312	972	35.0%	NM	3	1,263	915	35	43	NM	NM
New Hampshire	312	518	-39.7%	0	0	308	514	NM	NM	NM	NM
Rhode Island	323	299	8.1%	0	0	319	295	NM	NM	0	0
Vermont	0	0	-95.1%	0	0	0	0	0	0	0	0
Middle Atlantic	12,187	11,351	7.4%	904	1,070	11,006	10,037	102	93	174	151
New Jersey	3,213	2,564	25.3%	NM	NM	3,153	2,511	NM	NM	NM	NM
New York	4,168	4,220	-1.2%	896	1,063	3,178	3,073	72	66	NM	NM
Pennsylvania	4,806	4,567	5.2%	NM	NM	4,675	4,453	NM	NM	118	101
East North Central	9,144	7,675	19.1%	3,956	3,365	4,882	4,046	138	129	167	135
Illinois	1,100	816	34.8%	23	13	1,003	724	35	45	39	NM
Indiana	1,707	1,424	19.9%	1,382	1,147	260	220	14	NM	50	46
Michigan	2,132	1,693	25.9%	489	426	1,532	1,181	NM	52	NM	34
Ohio	2,845	2,679	6.2%	784	776	2,046	1,888	NM	NM	NM	NM
Wisconsin	1,360	1,063	27.9%	1,277	1,002	41	34	NM	NM	NM	NM
West North Central	1,478	991	49.2%	1,255	913	167	38	NM	NM	NM	NM
Iowa	251	185	35.7%	234	171	0	0	NM	NM	NM	NM
Kansas	51	40	25.2%	44	36	0	0	0	0	NM	NM
Minnesota	764	333	129.6%	662	299	77	15	NM	NM	NM	NM
Missouri	296	325	-8.9%	202	301	90	24	4	0	NM	NM
Nebraska	9	19	-49.2%	NM	19	0	0	NM	NM	1	NM
North Dakota	NM	NM	NM	NM	NM	0	0	0	0	NM	NM
South Dakota	70	68	4.0%	70	68	0	0	0	0	0	0
South Atlantic	24,400	22,841	6.8%	20,346	19,312	3,712	3,220	48	41	295	268
Delaware	349	489	-28.8%	NM	NM	273	404	0	0	72	83
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	11,777	11,278	4.4%	11,068	10,742	582	415	NM	NM	124	119
Georgia	4,191	4,303	-2.6%	3,010	2,992	1,142	1,289	0	0	40	22
Maryland	187	139	34.9%	0	0	144	101	NM	NM	NM	NM
North Carolina	3,330	3,162	5.3%	2,984	2,848	334	303	1	0	NM	11
South Carolina	1,220	944	29.3%	1,123	869	90	72	NM	0	6	2
Virginia	3,317	2,494	33.0%	2,152	1,850	1,132	618	NM	NM	32	26
West Virginia	23	26	-10.8%	6	8	15	18	0	0	2	NM
East South Central	10,712	9,674	10.7%	6,483	5,438	4,043	4,063	NM	NM	172	162
Alabama	4,827	5,063	-4.7%	1,518	1,436	3,213	3,535	0	0	97	92
Kentucky	697	221	215.1%	642	184	31	17	0	0	NM	NM
Mississippi	4,350	3,756	15.8%	3,513	3,208	799	510	NM	NM	36	36
Tennessee	838	634	32.2%	810	610	NM	NM	NM	NM	16	14
West South Central	28,508	28,556	-0.2%	8,503	6,992	14,474	15,644	69	70	5,462	5,849
Arkansas	1,193	1,345	-11.3%	678	233	482	1,078	NM	NM	34	34
Louisiana	5,821	5,017	16.0%	2,999	2,540	529	163	NM	NM	2,276	2,296
Oklahoma	2,989	2,846	5.0%	2,004	1,915	971	919	0	0	NM	NM
Texas	18,505	19,347	-4.4%	2,822	2,303	12,492	13,484	53	52	3,138	3,507
Mountain	7,660	5,991	27.9%	5,820	4,274	1,689	1,574	30	29	120	114
Arizona	2,039	1,515	34.6%	1,284	728	745	777	10	NM	0	0
Colorado	1,015	830	22.2%	847	638	166	191	0	0	NM	NM
Idaho	416	325	28.1%	214	206	194	116	0	0	NM	NM
Montana	77	52	47.9%	71	48	NM	NM	0	0	0	0
Nevada	2,498	1,822	37.1%	2,324	1,649	153	148	NM	NM	16	NM
New Mexico	855	797	7.2%	460	480	385	306	8	NM	NM	NM
Utah	699	595	17.3%	618	523	NM	NM	NM	NM	34	34
Wyoming	61	53	14.4%	NM	NM	NM	NM	0	0	59	51
Pacific Contiguous	11,735	10,761	9.1%	4,634	4,164	5,935	5,565	150	146	1,017	887
California	8,919	8,959	-0.4%	2,966	3,076	4,822	4,872	140	137	992	873
Oregon	1,507	1,162	29.7%	562	514	923	635	NM	NM	NM	NM
Washington	1,310	641	104.4%	1,106	573	190	58	NM	NM	12	8
Pacific Noncontiguous	246	310	-20.6%	237	303	0	0	NM	NM	NM	NM
Alaska	246	310	-20.6%	237	303	0	0	NM	NM	NM	NM
Hawaii	0	0	–	0	0	0	0	0	0	0	0
U.S. Total	109,980	101,811	8.0%	52,140	45,834	49,632	47,672	656	619	7,551	7,685

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

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 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	51	61	-16.0%	0	0	0	0	0	0	51	61
New Jersey	NM	17	NM	0	0	0	0	0	0	NM	17
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	32	44	-26.3%	0	0	0	0	0	0	32	44
East North Central	468	490	-4.5%	NM	27	219	202	0	0	245	261
Illinois	41	35	16.3%	0	0	2	0	0	0	39	35
Indiana	183	203	-10.1%	NM	NM	0	0	0	0	180	200
Michigan	139	153	-9.0%	2	24	138	130	0	0	0	0
Ohio	105	98	6.6%	0	0	80	72	0	0	25	26
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	21	16	34.2%	0	0	0	0	0	0	21	16
Delaware	19	12	52.2%	0	0	0	0	0	0	19	12
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	104.3%	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	2	3	-40.4%	0	0	0	0	0	0	2	3
East South Central	NM	4	NM	0	0	0	0	0	0	NM	4
Alabama	NM	3	NM	0	0	0	0	0	0	NM	3
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	11.6%	0	0	0	0	0	0	1	1
West South Central	459	460	-0.2%	0	0	108	136	0	0	351	324
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	236	213	10.5%	0	0	0	0	0	0	236	213
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	223	247	-9.5%	0	0	108	136	0	0	115	111
Mountain	43	38	12.6%	0	0	2	1	0	0	41	37
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	1	36.1%	0	0	1	1	0	0	0	0
Nevada	0	0	1.8%	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	41	37	12.0%	0	0	0	0	0	0	41	37
Pacific Contiguous	195	213	-8.5%	0	0	36	33	0	0	159	181
California	159	181	-12.0%	0	0	0	0	0	0	159	181
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	36	33	10.4%	0	0	36	33	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	1,254	1,293	-3.0%	NM	27	365	372	0	0	885	894

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 January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 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	51	61	-16.0%	0	0	0	0	0	0	51	61
New Jersey	NM	17	NM	0	0	0	0	0	0	NM	17
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	32	44	-26.3%	0	0	0	0	0	0	32	44
East North Central	468	490	-4.5%	NM	27	219	202	0	0	245	261
Illinois	41	35	16.3%	0	0	2	0	0	0	39	35
Indiana	183	203	-10.1%	NM	NM	0	0	0	0	180	200
Michigan	139	153	-9.0%	2	24	138	130	0	0	0	0
Ohio	105	98	6.6%	0	0	80	72	0	0	25	26
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	21	16	34.2%	0	0	0	0	0	0	21	16
Delaware	19	12	52.2%	0	0	0	0	0	0	19	12
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	104.3%	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	2	3	-40.4%	0	0	0	0	0	0	2	3
East South Central	NM	4	NM	0	0	0	0	0	0	NM	4
Alabama	NM	3	NM	0	0	0	0	0	0	NM	3
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	11.6%	0	0	0	0	0	0	1	1
West South Central	459	460	-0.2%	0	0	108	136	0	0	351	324
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	236	213	10.5%	0	0	0	0	0	0	236	213
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	223	247	-9.5%	0	0	108	136	0	0	115	111
Mountain	43	38	12.6%	0	0	2	1	0	0	41	37
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	1	36.1%	0	0	1	1	0	0	0	0
Nevada	0	0	1.8%	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	41	37	12.0%	0	0	0	0	0	0	41	37
Pacific Contiguous	195	213	-8.5%	0	0	36	33	0	0	159	181
California	159	181	-12.0%	0	0	0	0	0	0	159	181
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	36	33	10.4%	0	0	36	33	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	1,254	1,293	-3.0%	NM	27	365	372	0	0	885	894

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, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	2,778	2,926	-5.1%	0	0	2,778	2,926	0	0	0	0
Connecticut	1,396	1,569	-11.1%	0	0	1,396	1,569	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	508	429	18.3%	0	0	508	429	0	0	0	0
New Hampshire	874	927	-5.8%	0	0	874	927	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	14,684	14,633	0.4%	0	0	14,684	14,633	0	0	0	0
New Jersey	3,138	3,147	-0.3%	0	0	3,138	3,147	0	0	0	0
New York	3,875	4,036	-4.0%	0	0	3,875	4,036	0	0	0	0
Pennsylvania	7,671	7,449	3.0%	0	0	7,671	7,449	0	0	0	0
East North Central	14,177	14,275	-0.7%	2,504	2,502	11,673	11,772	0	0	0	0
Illinois	8,835	8,654	2.1%	0	0	8,835	8,654	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	3,108	3,111	-0.1%	2,504	2,502	604	608	0	0	0	0
Ohio	1,337	1,615	-17.2%	0	0	1,337	1,615	0	0	0	0
Wisconsin	896	894	0.2%	0	0	896	894	0	0	0	0
West North Central	4,153	4,419	-6.0%	3,701	4,000	452	419	0	0	0	0
Iowa	452	419	8.0%	0	0	452	419	0	0	0	0
Kansas	910	910	0.0%	910	910	0	0	0	0	0	0
Minnesota	898	1,214	-26.0%	898	1,214	0	0	0	0	0	0
Missouri	923	911	1.3%	923	911	0	0	0	0	0	0
Nebraska	970	966	0.5%	970	966	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	18,650	18,621	0.2%	17,373	17,293	1,277	1,328	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	2,749	2,734	0.5%	2,749	2,734	0	0	0	0	0	0
Georgia	3,042	2,979	2.1%	3,042	2,979	0	0	0	0	0	0
Maryland	1,277	1,328	-3.8%	0	0	1,277	1,328	0	0	0	0
North Carolina	3,859	3,899	-1.0%	3,859	3,899	0	0	0	0	0	0
South Carolina	4,963	4,972	-0.2%	4,963	4,972	0	0	0	0	0	0
Virginia	2,761	2,709	1.9%	2,761	2,709	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,407	7,475	-14.3%	6,407	7,475	0	0	0	0	0	0
Alabama	3,689	3,860	-4.4%	3,689	3,860	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	1,014	1,030	-1.5%	1,014	1,030	0	0	0	0	0	0
Tennessee	1,705	2,586	-34.1%	1,705	2,586	0	0	0	0	0	0
West South Central	6,133	6,548	-6.3%	2,446	2,732	3,687	3,817	0	0	0	0
Arkansas	1,386	1,209	14.7%	1,386	1,209	0	0	0	0	0	0
Louisiana	1,059	1,523	-30.4%	1,059	1,523	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,687	3,817	-3.4%	0	0	3,687	3,817	0	0	0	0
Mountain	3,002	2,974	1.0%	3,002	2,974	0	0	0	0	0	0
Arizona	3,002	2,974	1.0%	3,002	2,974	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	2,551	2,400	6.3%	2,551	2,400	0	0	0	0	0	0
California	1,690	1,564	8.1%	1,690	1,564	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	861	836	3.0%	861	836	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	72,536	74,270	-2.3%	37,985	39,377	34,551	34,893	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 1.9.B. Utility Scale Facility Net Generation from Nuclear Energy

by State, by Sector, Year-to-Date through January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	2,778	2,926	-5.1%	0	0	2,778	2,926	0	0	0	0
Connecticut	1,396	1,569	-11.1%	0	0	1,396	1,569	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	508	429	18.3%	0	0	508	429	0	0	0	0
New Hampshire	874	927	-5.8%	0	0	874	927	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	14,684	14,633	0.4%	0	0	14,684	14,633	0	0	0	0
New Jersey	3,138	3,147	-0.3%	0	0	3,138	3,147	0	0	0	0
New York	3,875	4,036	-4.0%	0	0	3,875	4,036	0	0	0	0
Pennsylvania	7,671	7,449	3.0%	0	0	7,671	7,449	0	0	0	0
East North Central	14,177	14,275	-0.7%	2,504	2,502	11,673	11,772	0	0	0	0
Illinois	8,835	8,654	2.1%	0	0	8,835	8,654	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	3,108	3,111	-0.1%	2,504	2,502	604	608	0	0	0	0
Ohio	1,337	1,615	-17.2%	0	0	1,337	1,615	0	0	0	0
Wisconsin	896	894	0.2%	0	0	896	894	0	0	0	0
West North Central	4,153	4,419	-6.0%	3,701	4,000	452	419	0	0	0	0
Iowa	452	419	8.0%	0	0	452	419	0	0	0	0
Kansas	910	910	0.0%	910	910	0	0	0	0	0	0
Minnesota	898	1,214	-26.0%	898	1,214	0	0	0	0	0	0
Missouri	923	911	1.3%	923	911	0	0	0	0	0	0
Nebraska	970	966	0.5%	970	966	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	18,650	18,621	0.2%	17,373	17,293	1,277	1,328	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	2,749	2,734	0.5%	2,749	2,734	0	0	0	0	0	0
Georgia	3,042	2,979	2.1%	3,042	2,979	0	0	0	0	0	0
Maryland	1,277	1,328	-3.8%	0	0	1,277	1,328	0	0	0	0
North Carolina	3,859	3,899	-1.0%	3,859	3,899	0	0	0	0	0	0
South Carolina	4,963	4,972	-0.2%	4,963	4,972	0	0	0	0	0	0
Virginia	2,761	2,709	1.9%	2,761	2,709	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,407	7,475	-14.3%	6,407	7,475	0	0	0	0	0	0
Alabama	3,689	3,860	-4.4%	3,689	3,860	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	1,014	1,030	-1.5%	1,014	1,030	0	0	0	0	0	0
Tennessee	1,705	2,586	-34.1%	1,705	2,586	0	0	0	0	0	0
West South Central	6,133	6,548	-6.3%	2,446	2,732	3,687	3,817	0	0	0	0
Arkansas	1,386	1,209	14.7%	1,386	1,209	0	0	0	0	0	0
Louisiana	1,059	1,523	-30.4%	1,059	1,523	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	3,687	3,817	-3.4%	0	0	3,687	3,817	0	0	0	0
Mountain	3,002	2,974	1.0%	3,002	2,974	0	0	0	0	0	0
Arizona	3,002	2,974	1.0%	3,002	2,974	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	2,551	2,400	6.3%	2,551	2,400	0	0	0	0	0	0
California	1,690	1,564	8.1%	1,690	1,564	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	861	836	3.0%	861	836	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	72,536	74,270	-2.3%	37,985	39,377	34,551	34,893	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, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	837	697	20.0%	134	92	662	563	NM	NM	40	42
Connecticut	57	40	42.3%	NM	NM	53	37	0	0	0	0
Maine	370	349	6.0%	0	0	331	307	0	0	39	41
Massachusetts	122	85	42.6%	NM	NM	86	67	NM	NM	NM	NM
New Hampshire	130	114	14.1%	39	36	91	78	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	158	109	45.3%	57	36	101	73	0	0	0	0
Middle Atlantic	2,916	2,398	21.6%	2,020	1,772	888	620	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,570	2,200	16.9%	2,009	1,764	553	429	NM	NM	NM	NM
Pennsylvania	340	196	73.5%	NM	NM	329	188	0	0	0	0
East North Central	439	490	-10.4%	372	421	52	49	NM	NM	NM	NM
Illinois	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
Indiana	43	33	32.9%	43	33	0	0	0	0	0	0
Michigan	126	161	-21.5%	115	148	NM	NM	0	0	NM	NM
Ohio	61	36	71.5%	35	13	NM	23	0	0	0	0
Wisconsin	192	250	-23.1%	172	223	NM	NM	0	0	NM	NM
West North Central	1,152	872	32.2%	1,131	851	NM	NM	0	0	3	1
Iowa	68	92	-26.4%	67	91	NM	NM	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	45	53	-14.6%	NM	NM	NM	NM	0	0	3	1
Missouri	333	51	558.8%	333	51	0	0	0	0	0	0
Nebraska	94	116	-19.5%	94	116	0	0	0	0	0	0
North Dakota	163	185	-11.6%	163	185	0	0	0	0	0	0
South Dakota	446	374	19.4%	446	374	0	0	0	0	0	0
South Atlantic	2,667	1,270	109.9%	2,339	1,057	268	156	NM	NM	58	57
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	NM	20	NM	NM	20	0	0	0	0	0	0
Georgia	574	268	114.6%	570	264	NM	NM	0	0	NM	NM
Maryland	213	111	92.7%	0	0	213	111	0	0	0	0
North Carolina	942	438	115.0%	931	431	NM	NM	NM	NM	NM	NM
South Carolina	562	237	137.1%	552	230	NM	NM	NM	NM	0	0
Virginia	211	82	156.4%	200	75	NM	NM	0	0	NM	NM
West Virginia	137	115	19.2%	59	36	25	26	0	0	54	53
East South Central	3,338	2,462	35.6%	3,337	2,461	NM	NM	0	0	0	0
Alabama	1,729	1,183	46.1%	1,729	1,183	0	0	0	0	0	0
Kentucky	367	348	5.5%	366	348	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1,241	930	33.5%	1,241	930	0	0	0	0	0	0
West South Central	1,213	488	148.3%	1,084	400	129	89	0	0	0	0
Arkansas	490	236	107.7%	484	234	NM	NM	0	0	0	0
Louisiana	119	84	42.2%	0	0	119	84	0	0	0	0
Oklahoma	419	97	330.6%	419	97	0	0	0	0	0	0
Texas	185	72	158.3%	180	68	NM	NM	0	0	0	0
Mountain	2,263	2,680	-15.6%	2,189	2,587	74	92	NM	NM	0	0
Arizona	617	537	14.9%	617	537	0	0	0	0	0	0
Colorado	169	162	4.2%	152	141	NM	NM	NM	NM	0	0
Idaho	629	734	-14.2%	589	683	40	50	0	0	0	0
Montana	642	873	-26.4%	630	857	NM	NM	0	0	0	0
Nevada	100	268	-62.8%	97	264	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	53	60	-12.4%	52	60	NM	NM	0	0	0	0
Wyoming	41	35	18.9%	40	34	NM	NM	0	0	0	0
Pacific Contiguous	10,570	13,109	-19.4%	10,471	13,008	98	100	NM	NM	0	0
California	1,092	865	26.2%	1,043	828	NM	37	NM	NM	0	0
Oregon	3,171	3,998	-20.7%	3,146	3,969	NM	NM	0	0	0	0
Washington	6,307	8,245	-23.5%	6,282	8,212	NM	33	0	0	0	0
Pacific Noncontiguous	141	165	-14.9%	136	160	1	0	0	0	NM	NM
Alaska	134	157	-14.8%	134	157	0	0	0	0	0	0
Hawaii	NM	NM	NM	NM	NM	1	0	0	0	NM	NM
U.S. Total	25,535	24,631	3.7%	23,212	22,809	2,190	1,689	NM	NM	127	130

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 January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	837	697	20.0%	134	92	662	563	NM	NM	40	42
Connecticut	57	40	42.3%	NM	NM	53	37	0	0	0	0
Maine	370	349	6.0%	0	0	331	307	0	0	39	41
Massachusetts	122	85	42.6%	NM	NM	86	67	NM	NM	NM	NM
New Hampshire	130	114	14.1%	39	36	91	78	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	0	0	0	0
Vermont	158	109	45.3%	57	36	101	73	0	0	0	0
Middle Atlantic	2,916	2,398	21.6%	2,020	1,772	888	620	NM	NM	NM	NM
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	2,570	2,200	16.9%	2,009	1,764	553	429	NM	NM	NM	NM
Pennsylvania	340	196	73.5%	NM	NM	329	188	0	0	0	0
East North Central	439	490	-10.4%	372	421	52	49	NM	NM	NM	NM
Illinois	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
Indiana	43	33	32.9%	43	33	0	0	0	0	0	0
Michigan	126	161	-21.5%	115	148	NM	NM	0	0	NM	NM
Ohio	61	36	71.5%	35	13	NM	23	0	0	0	0
Wisconsin	192	250	-23.1%	172	223	NM	NM	0	0	NM	NM
West North Central	1,152	872	32.2%	1,131	851	NM	NM	0	0	3	1
Iowa	68	92	-26.4%	67	91	NM	NM	0	0	0	0
Kansas	NM	NM	NM	0	0	NM	NM	0	0	0	0
Minnesota	45	53	-14.6%	NM	NM	NM	NM	0	0	3	1
Missouri	333	51	558.8%	333	51	0	0	0	0	0	0
Nebraska	94	116	-19.5%	94	116	0	0	0	0	0	0
North Dakota	163	185	-11.6%	163	185	0	0	0	0	0	0
South Dakota	446	374	19.4%	446	374	0	0	0	0	0	0
South Atlantic	2,667	1,270	109.9%	2,339	1,057	268	156	NM	NM	58	57
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	NM	20	NM	NM	20	0	0	0	0	0	0
Georgia	574	268	114.6%	570	264	NM	NM	0	0	NM	NM
Maryland	213	111	92.7%	0	0	213	111	0	0	0	0
North Carolina	942	438	115.0%	931	431	NM	NM	NM	NM	NM	NM
South Carolina	562	237	137.1%	552	230	NM	NM	NM	NM	0	0
Virginia	211	82	156.4%	200	75	NM	NM	0	0	NM	NM
West Virginia	137	115	19.2%	59	36	25	26	0	0	54	53
East South Central	3,338	2,462	35.6%	3,337	2,461	NM	NM	0	0	0	0
Alabama	1,729	1,183	46.1%	1,729	1,183	0	0	0	0	0	0
Kentucky	367	348	5.5%	366	348	NM	NM	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1,241	930	33.5%	1,241	930	0	0	0	0	0	0
West South Central	1,213	488	148.3%	1,084	400	129	89	0	0	0	0
Arkansas	490	236	107.7%	484	234	NM	NM	0	0	0	0
Louisiana	119	84	42.2%	0	0	119	84	0	0	0	0
Oklahoma	419	97	330.6%	419	97	0	0	0	0	0	0
Texas	185	72	158.3%	180	68	NM	NM	0	0	0	0
Mountain	2,263	2,680	-15.6%	2,189	2,587	74	92	NM	NM	0	0
Arizona	617	537	14.9%	617	537	0	0	0	0	0	0
Colorado	169	162	4.2%	152	141	NM	NM	NM	NM	0	0
Idaho	629	734	-14.2%	589	683	40	50	0	0	0	0
Montana	642	873	-26.4%	630	857	NM	NM	0	0	0	0
Nevada	100	268	-62.8%	97	264	NM	NM	0	0	0	0
New Mexico	NM	NM	NM	NM	NM	0	0	0	0	0	0
Utah	53	60	-12.4%	52	60	NM	NM	0	0	0	0
Wyoming	41	35	18.9%	40	34	NM	NM	0	0	0	0
Pacific Contiguous	10,570	13,109	-19.4%	10,471	13,008	98	100	NM	NM	0	0
California	1,092	865	26.2%	1,043	828	NM	37	NM	NM	0	0
Oregon	3,171	3,998	-20.7%	3,146	3,969	NM	NM	0	0	0	0
Washington	6,307	8,245	-23.5%	6,282	8,212	NM	33	0	0	0	0
Pacific Noncontiguous	141	165	-14.9%	136	160	1	0	0	0	NM	NM
Alaska	134	157	-14.8%	134	157	0	0	0	0	0	0
Hawaii	NM	NM	NM	NM	NM	1	0	0	0	NM	NM
U.S. Total	25,535	24,631	3.7%	23,212	22,809	2,190	1,689	NM	NM	127	130

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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 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	980	977	0.4%	91	87	770	721	14	17	105	152
Connecticut	79	70	13.9%	0	0	79	67	0	NM	0	0
Maine	439	461	-4.9%	0	0	327	302	7	8	104	151
Massachusetts	160	161	-0.9%	NM	NM	150	151	NM	NM	NM	NM
New Hampshire	201	183	10.0%	31	32	167	148	3	3	0	0
Rhode Island	20	22	-6.6%	0	0	20	21	NM	NM	0	0
Vermont	81	80	1.2%	54	48	27	31	NM	NM	0	0
Middle Atlantic	1,456	1,433	1.6%	NM	NM	1,320	1,299	56	55	75	74
New Jersey	131	126	4.1%	NM	NM	101	98	24	23	NM	NM
New York	691	695	-0.5%	0	0	652	653	18	19	21	22
Pennsylvania	634	613	3.5%	0	0	566	548	14	13	54	52
East North Central	3,275	2,750	19.1%	372	358	2,742	2,214	18	20	143	158
Illinois	1,319	1,060	24.5%	NM	NM	1,318	1,058	NM	NM	0	0
Indiana	703	455	54.5%	28	27	667	421	NM	NM	5	6
Michigan	727	734	-1.0%	215	208	445	446	11	13	57	67
Ohio	230	202	13.8%	NM	NM	198	167	NM	NM	28	32
Wisconsin	295	299	-1.3%	124	120	114	122	5	4	52	53
West North Central	5,072	5,231	-3.0%	1,634	1,732	3,382	3,433	15	13	41	54
Iowa	1,759	1,837	-4.2%	1,072	1,086	678	738	NM	NM	6	10
Kansas	1,068	928	15.1%	70	77	997	850	0	0	NM	NM
Minnesota	1,051	1,101	-4.5%	193	213	821	842	NM	NM	32	41
Missouri	112	122	-8.5%	4	4	102	113	6	4	NM	NM
Nebraska	287	334	-14.2%	24	29	261	303	NM	NM	0	0
North Dakota	567	667	-15.1%	195	250	370	416	0	0	NM	NM
South Dakota	229	242	-5.4%	76	72	153	170	0	0	0	0
South Atlantic	2,051	1,960	4.6%	216	178	914	842	36	37	886	903
Delaware	10	10	0.7%	NM	NM	8	8	NM	NM	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	398	445	-10.5%	34	19	196	247	3	NM	164	177
Georgia	416	388	7.0%	4	NM	84	56	NM	NM	326	329
Maryland	107	99	8.0%	NM	NM	98	82	NM	NM	6	14
North Carolina	351	293	19.7%	13	NM	240	166	12	11	86	116
South Carolina	219	205	7.2%	36	40	29	31	0	0	155	134
Virginia	383	362	5.9%	128	118	92	94	16	18	147	132
West Virginia	167	159	5.2%	0	0	167	159	0	0	0	0
East South Central	551	563	-2.2%	8	8	38	42	NM	NM	504	513
Alabama	275	291	-5.5%	NM	NM	20	23	0	0	254	267
Kentucky	44	44	-1.3%	8	8	NM	NM	0	0	35	36
Mississippi	133	126	5.6%	0	0	NM	NM	0	0	132	125
Tennessee	99	102	-2.8%	0	0	17	17	NM	NM	82	84
West South Central	6,457	4,658	38.6%	128	147	5,873	4,038	NM	NM	451	468
Arkansas	126	138	-8.8%	0	0	13	10	NM	NM	113	128
Louisiana	239	236	1.1%	0	0	8	8	0	0	231	229
Oklahoma	1,451	1,081	34.2%	104	113	1,321	941	0	0	26	28
Texas	4,642	3,203	44.9%	23	34	4,531	3,079	NM	NM	81	84
Mountain	2,974	2,552	16.5%	338	313	2,596	2,199	NM	NM	33	36
Arizona	275	197	39.7%	32	29	242	167	NM	NM	0	0
Colorado	814	789	3.2%	9	13	804	774	NM	NM	NM	NM
Idaho	289	241	20.2%	15	10	242	196	0	0	32	35
Montana	197	253	-22.0%	20	29	176	223	0	0	NM	NM
Nevada	451	392	15.1%	NM	0	445	390	NM	NM	NM	NM
New Mexico	342	158	117.3%	8	NM	335	151	NM	NM	0	0
Utah	111	86	30.0%	24	24	88	62	0	0	0	0
Wyoming	494	439	12.6%	229	202	265	237	0	0	0	0
Pacific Contiguous	4,037	3,425	17.8%	489	367	3,267	2,759	88	94	193	206
California	3,012	2,613	15.3%	140	123	2,730	2,340	85	90	57	60
Oregon	428	356	20.2%	52	39	339	264	NM	NM	36	52
Washington	596	456	30.7%	297	205	198	155	NM	NM	100	94
Pacific Noncontiguous	99	98	0.3%	18	16	49	51	21	21	11	10
Alaska	21	20	5.1%	NM	NM	NM	NM	4	5	NM	NM
Hawaii	78	78	-1.0%	7	7	44	46	16	16	10	10
U.S. Total	26,951	23,649	14.0%	3,299	3,211	20,951	17,598	260	267	2,441	2,573

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

by State, by Sector, Year-to-Date through January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	980	977	0.4%	91	87	770	721	14	17	105	152
Connecticut	79	70	13.9%	0	0	79	67	0	NM	0	0
Maine	439	461	-4.9%	0	0	327	302	7	8	104	151
Massachusetts	160	161	-0.9%	NM	NM	150	151	NM	NM	NM	NM
New Hampshire	201	183	10.0%	31	32	167	148	3	3	0	0
Rhode Island	20	22	-6.6%	0	0	20	21	NM	NM	0	0
Vermont	81	80	1.2%	54	48	27	31	NM	NM	0	0
Middle Atlantic	1,456	1,433	1.6%	NM	NM	1,320	1,299	56	55	75	74
New Jersey	131	126	4.1%	NM	NM	101	98	24	23	NM	NM
New York	691	695	-0.5%	0	0	652	653	18	19	21	22
Pennsylvania	634	613	3.5%	0	0	566	548	14	13	54	52
East North Central	3,275	2,750	19.1%	372	358	2,742	2,214	18	20	143	158
Illinois	1,319	1,060	24.5%	NM	NM	1,318	1,058	NM	NM	0	0
Indiana	703	455	54.5%	28	27	667	421	NM	NM	5	6
Michigan	727	734	-1.0%	215	208	445	446	11	13	57	67
Ohio	230	202	13.8%	NM	NM	198	167	NM	NM	28	32
Wisconsin	295	299	-1.3%	124	120	114	122	5	4	52	53
West North Central	5,072	5,231	-3.0%	1,634	1,732	3,382	3,433	15	13	41	54
Iowa	1,759	1,837	-4.2%	1,072	1,086	678	738	NM	NM	6	10
Kansas	1,068	928	15.1%	70	77	997	850	0	0	NM	NM
Minnesota	1,051	1,101	-4.5%	193	213	821	842	NM	NM	32	41
Missouri	112	122	-8.5%	4	4	102	113	6	4	NM	NM
Nebraska	287	334	-14.2%	24	29	261	303	NM	NM	0	0
North Dakota	567	667	-15.1%	195	250	370	416	0	0	NM	NM
South Dakota	229	242	-5.4%	76	72	153	170	0	0	0	0
South Atlantic	2,051	1,960	4.6%	216	178	914	842	36	37	886	903
Delaware	10	10	0.7%	NM	NM	8	8	NM	NM	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	398	445	-10.5%	34	19	196	247	3	NM	164	177
Georgia	416	388	7.0%	4	NM	84	56	NM	NM	326	329
Maryland	107	99	8.0%	NM	NM	98	82	NM	NM	6	14
North Carolina	351	293	19.7%	13	NM	240	166	12	11	86	116
South Carolina	219	205	7.2%	36	40	29	31	0	0	155	134
Virginia	383	362	5.9%	128	118	92	94	16	18	147	132
West Virginia	167	159	5.2%	0	0	167	159	0	0	0	0
East South Central	551	563	-2.2%	8	8	38	42	NM	NM	504	513
Alabama	275	291	-5.5%	NM	NM	20	23	0	0	254	267
Kentucky	44	44	-1.3%	8	8	NM	NM	0	0	35	36
Mississippi	133	126	5.6%	0	0	NM	NM	0	0	132	125
Tennessee	99	102	-2.8%	0	0	17	17	NM	NM	82	84
West South Central	6,457	4,658	38.6%	128	147	5,873	4,038	NM	NM	451	468
Arkansas	126	138	-8.8%	0	0	13	10	NM	NM	113	128
Louisiana	239	236	1.1%	0	0	8	8	0	0	231	229
Oklahoma	1,451	1,081	34.2%	104	113	1,321	941	0	0	26	28
Texas	4,642	3,203	44.9%	23	34	4,531	3,079	NM	NM	81	84
Mountain	2,974	2,552	16.5%	338	313	2,596	2,199	NM	NM	33	36
Arizona	275	197	39.7%	32	29	242	167	NM	NM	0	0
Colorado	814	789	3.2%	9	13	804	774	NM	NM	NM	NM
Idaho	289	241	20.2%	15	10	242	196	0	0	32	35
Montana	197	253	-22.0%	20	29	176	223	0	0	NM	NM
Nevada	451	392	15.1%	NM	0	445	390	NM	NM	NM	NM
New Mexico	342	158	117.3%	8	NM	335	151	NM	NM	0	0
Utah	111	86	30.0%	24	24	88	62	0	0	0	0
Wyoming	494	439	12.6%	229	202	265	237	0	0	0	0
Pacific Contiguous	4,037	3,425	17.8%	489	367	3,267	2,759	88	94	193	206
California	3,012	2,613	15.3%	140	123	2,730	2,340	85	90	57	60
Oregon	428	356	20.2%	52	39	339	264	NM	NM	36	52
Washington	596	456	30.7%	297	205	198	155	NM	NM	100	94
Pacific Noncontiguous	99	98	0.3%	18	16	49	51	21	21	11	10
Alaska	21	20	5.1%	NM	NM	NM	NM	4	5	NM	NM
Hawaii	78	78	-1.0%	7	7	44	46	16	16	10	10
U.S. Total	26,951	23,649	14.0%	3,299	3,211	20,951	17,598	260	267	2,441	2,573

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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, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	-39	-37	6.1%	0	0	-39	-37	0	0	0	0
Connecticut	3	2	73.8%	0	0	3	2	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-42	-39	9.6%	0	0	-42	-39	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	-104	-84	23.2%	-61	-29	-43	-55	0	0	0	0
New Jersey	-18	-17	8.1%	-18	-17	0	0	0	0	0	0
New York	-43	-13	234.6%	-43	-13	0	0	0	0	0	0
Pennsylvania	-43	-55	-22.1%	0	0	-43	-55	0	0	0	0
East North Central	-39	-43	-9.7%	-39	-43	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	-39	-43	-9.7%	-39	-43	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	104	4	NM	104	4	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	104	4	NM	104	4	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	-72	-245	-70.7%	-72	-245	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	47	-84	-156.3%	47	-84	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	-28	-90	-68.4%	-28	-90	0	0	0	0	0	0
Virginia	-91	-72	25.4%	-91	-72	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-45	-32	43.9%	-45	-32	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	-45	-32	43.9%	-45	-32	0	0	0	0	0	0
West South Central	9	-2	-482.9%	9	-2	0	0	0	0	0	0
Arkansas	13	0	NM	13	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-4	-3	36.4%	-4	-3	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-27	-33	-17.4%	-27	-33	0	0	0	0	0	0
Arizona	-1	-3	-79.3%	-1	-3	0	0	0	0	0	0
Colorado	-26	-29	-10.3%	-26	-29	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	-99	-79	25.2%	-99	-79	0	0	0	0	0	0
California	-98	-85	15.5%	-98	-85	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-1	6	-110.5%	-1	6	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-312	-551	-43.4%	-230	-460	-82	-92	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 1.12.B. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power

by State, by Sector, Year-to-Date through January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	-39	-37	6.1%	0	0	-39	-37	0	0	0	0
Connecticut	3	2	73.8%	0	0	3	2	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-42	-39	9.6%	0	0	-42	-39	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	-104	-84	23.2%	-61	-29	-43	-55	0	0	0	0
New Jersey	-18	-17	8.1%	-18	-17	0	0	0	0	0	0
New York	-43	-13	234.6%	-43	-13	0	0	0	0	0	0
Pennsylvania	-43	-55	-22.1%	0	0	-43	-55	0	0	0	0
East North Central	-39	-43	-9.7%	-39	-43	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	-39	-43	-9.7%	-39	-43	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	104	4	NM	104	4	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	104	4	NM	104	4	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	-72	-245	-70.7%	-72	-245	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	47	-84	-156.3%	47	-84	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	-28	-90	-68.4%	-28	-90	0	0	0	0	0	0
Virginia	-91	-72	25.4%	-91	-72	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-45	-32	43.9%	-45	-32	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	-45	-32	43.9%	-45	-32	0	0	0	0	0	0
West South Central	9	-2	-482.9%	9	-2	0	0	0	0	0	0
Arkansas	13	0	NM	13	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-4	-3	36.4%	-4	-3	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-27	-33	-17.4%	-27	-33	0	0	0	0	0	0
Arizona	-1	-3	-79.3%	-1	-3	0	0	0	0	0	0
Colorado	-26	-29	-10.3%	-26	-29	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	-99	-79	25.2%	-99	-79	0	0	0	0	0	0
California	-98	-85	15.5%	-98	-85	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	-1	6	-110.5%	-1	6	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-312	-551	-43.4%	-230	-460	-82	-92	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 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	164	163	0.8%	0	0	147	143	7	9	10	11
Connecticut	52	51	2.2%	0	0	52	49	0	NM	0	0
Maine	31	30	3.1%	0	0	14	13	7	7	10	11
Massachusetts	77	77	-0.9%	0	0	77	77	0	0	0	0
New Hampshire	4	5	-1.1%	0	0	4	5	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	200	201	-0.6%	0	0	161	165	39	36	0	0
New Jersey	48	45	7.5%	0	0	35	32	13	12	0	0
New York	72	77	-5.5%	0	0	55	60	17	16	0	0
Pennsylvania	80	80	-0.3%	0	0	71	72	9	8	0	0
East North Central	87	83	4.5%	3	3	14	15	12	14	58	52
Illinois	22	21	5.5%	0	0	0	0	0	0	22	21
Indiana	30	26	17.2%	0	0	0	0	NM	NM	28	24
Michigan	26	29	-10.1%	NM	NM	12	14	11	12	2	2
Ohio	2	2	18.6%	0	0	NM	NM	0	0	1	1
Wisconsin	6	5	15.0%	1	2	0	0	0	0	5	4
West North Central	39	38	1.0%	19	19	12	12	NM	NM	NM	5
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	NM	NM	NM	0	0	0	0	0	0	NM	NM
Minnesota	33	30	10.8%	13	11	12	12	NM	NM	NM	4
Missouri	2	5	-54.3%	2	5	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	3	3	0.2%	3	3	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	367	342	7.3%	23	0	188	194	15	16	142	132
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	247	7.5%	23	0	114	118	0	0	129	129
Georgia	11	0	NM	0	0	0	0	0	0	11	0
Maryland	25	24	5.6%	0	0	25	23	NM	NM	0	0
North Carolina	29	27	6.9%	0	0	29	27	0	0	0	0
South Carolina	3	4	-27.6%	0	0	NM	NM	0	0	2	3
Virginia	34	40	-15.3%	0	0	20	24	14	16	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6	7	-15.2%	4	5	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	4	5	-23.7%	4	5	0	0	0	0	0	0
Mississippi	NM	NM	NM	0	0	0	0	0	0	NM	NM
Tennessee	2	2	3.2%	0	0	0	0	0	0	2	2
West South Central	101	95	6.6%	0	0	NM	NM	0	0	100	94
Arkansas	1	2	-69.6%	0	0	0	0	0	0	1	2
Louisiana	34	37	-7.4%	0	0	0	0	0	0	34	37
Oklahoma	NM	NM	NM	0	0	0	0	0	0	NM	NM
Texas	65	55	18.1%	0	0	NM	NM	0	0	64	54
Mountain	46	31	49.1%	NM	NM	30	27	0	0	15	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	29	26	11.3%	0	0	29	26	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	12	NM	NM	0	0	NM	NM	0	0	12	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	93	87	6.6%	NM	NM	23	26	0	0	70	61
California	71	71	0.2%	NM	NM	12	16	0	0	58	55
Oregon	4	4	-0.9%	0	0	4	4	0	0	0	0
Washington	18	12	46.1%	0	0	6	6	0	0	12	6
Pacific Noncontiguous	17	16	5.4%	NM	0	1	1	15	15	0	0
Alaska	NM	0	--	NM	0	0	0	0	0	0	0
Hawaii	17	16	4.5%	0	0	1	1	15	15	0	0
U.S. Total	1,120	1,063	5.3%	50	28	577	584	91	92	402	359

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

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

by State, by Sector, Year-to-Date through January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	164	163	0.8%	0	0	147	143	7	9	10	11
Connecticut	52	51	2.2%	0	0	52	49	0	NM	0	0
Maine	31	30	3.1%	0	0	14	13	7	7	10	11
Massachusetts	77	77	-0.9%	0	0	77	77	0	0	0	0
New Hampshire	4	5	-1.1%	0	0	4	5	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	200	201	-0.6%	0	0	161	165	39	36	0	0
New Jersey	48	45	7.5%	0	0	35	32	13	12	0	0
New York	72	77	-5.5%	0	0	55	60	17	16	0	0
Pennsylvania	80	80	-0.3%	0	0	71	72	9	8	0	0
East North Central	87	83	4.5%	3	3	14	15	12	14	58	52
Illinois	22	21	5.5%	0	0	0	0	0	0	22	21
Indiana	30	26	17.2%	0	0	0	0	NM	NM	28	24
Michigan	26	29	-10.1%	NM	NM	12	14	11	12	2	2
Ohio	2	2	18.6%	0	0	NM	NM	0	0	1	1
Wisconsin	6	5	15.0%	1	2	0	0	0	0	5	4
West North Central	39	38	1.0%	19	19	12	12	NM	NM	NM	5
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	NM	NM	NM	0	0	0	0	0	0	NM	NM
Minnesota	33	30	10.8%	13	11	12	12	NM	NM	NM	4
Missouri	2	5	-54.3%	2	5	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	3	3	0.2%	3	3	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	367	342	7.3%	23	0	188	194	15	16	142	132
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	247	7.5%	23	0	114	118	0	0	129	129
Georgia	11	0	NM	0	0	0	0	0	0	11	0
Maryland	25	24	5.6%	0	0	25	23	NM	NM	0	0
North Carolina	29	27	6.9%	0	0	29	27	0	0	0	0
South Carolina	3	4	-27.6%	0	0	NM	NM	0	0	2	3
Virginia	34	40	-15.3%	0	0	20	24	14	16	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6	7	-15.2%	4	5	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	4	5	-23.7%	4	5	0	0	0	0	0	0
Mississippi	NM	NM	NM	0	0	0	0	0	0	NM	NM
Tennessee	2	2	3.2%	0	0	0	0	0	0	2	2
West South Central	101	95	6.6%	0	0	NM	NM	0	0	100	94
Arkansas	1	2	-69.6%	0	0	0	0	0	0	1	2
Louisiana	34	37	-7.4%	0	0	0	0	0	0	34	37
Oklahoma	NM	NM	NM	0	0	0	0	0	0	NM	NM
Texas	65	55	18.1%	0	0	NM	NM	0	0	64	54
Mountain	46	31	49.1%	NM	NM	30	27	0	0	15	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	29	26	11.3%	0	0	29	26	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	12	NM	NM	0	0	NM	NM	0	0	12	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	93	87	6.6%	NM	NM	23	26	0	0	70	61
California	71	71	0.2%	NM	NM	12	16	0	0	58	55
Oregon	4	4	-0.9%	0	0	4	4	0	0	0	0
Washington	18	12	46.1%	0	0	6	6	0	0	12	6
Pacific Noncontiguous	17	16	5.4%	NM	0	1	1	15	15	0	0
Alaska	NM	0	--	NM	0	0	0	0	0	0	0
Hawaii	17	16	4.5%	0	0	1	1	15	15	0	0
U.S. Total	1,120	1,063	5.3%	50	28	577	584	91	92	402	359

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

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	262	241	8.8%	26	29	232	208	NM	NM	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	162	132	23.4%	0	0	162	132	0	0	0	0
Massachusetts	20	22	-10.6%	NM	NM	11	14	NM	NM	NM	NM
New Hampshire	47	48	-2.8%	0	0	47	48	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	NM	NM	0	0
Vermont	31	37	-16.2%	20	23	11	13	0	0	0	0
Middle Atlantic	888	872	1.7%	0	0	887	872	0	0	NM	0
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	477	484	-1.4%	0	0	477	484	0	0	NM	0
Pennsylvania	408	386	5.7%	0	0	408	386	0	0	0	0
East North Central	2,746	2,199	24.9%	308	310	2,431	1,885	NM	NM	NM	NM
Illinois	1,268	1,004	26.3%	NM	NM	1,267	1,002	NM	NM	0	0
Indiana	656	411	59.7%	0	0	656	411	NM	NM	0	0
Michigan	519	501	3.6%	214	208	305	293	0	0	0	0
Ohio	160	126	26.6%	NM	NM	153	122	NM	0	NM	NM
Wisconsin	143	156	-8.6%	92	99	51	56	0	0	NM	NM
West North Central	4,881	5,031	-3.0%	1,589	1,691	3,289	3,337	NM	NM	0	0
Iowa	1,738	1,812	-4.1%	1,070	1,084	667	728	NM	NM	0	0
Kansas	1,062	922	15.2%	70	77	992	844	0	0	0	0
Minnesota	911	950	-4.2%	160	183	747	765	NM	NM	0	0
Missouri	98	111	-10.9%	0	0	98	111	0	0	0	0
Nebraska	279	329	-15.2%	18	25	261	303	0	0	0	0
North Dakota	565	666	-15.2%	195	250	370	416	0	0	0	0
South Dakota	229	242	-5.4%	76	72	153	170	0	0	0	0
South Atlantic	224	204	9.7%	0	0	223	203	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	57	45	25.6%	0	0	57	45	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	166	158	5.2%	0	0	166	158	0	0	0	0
East South Central	4	5	-12.8%	0	0	4	5	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	5	-12.8%	0	0	4	5	0	0	0	0
West South Central	5,887	4,082	44.2%	127	133	5,757	3,946	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	1,423	1,052	35.2%	104	113	1,319	940	0	0	0	0
Texas	4,464	3,029	47.4%	23	21	4,438	3,006	NM	NM	0	0
Mountain	2,108	1,827	15.4%	272	253	1,836	1,573	NM	NM	NM	NM
Arizona	42	16	164.1%	0	0	42	16	0	0	0	0
Colorado	780	763	2.3%	9	13	772	749	0	0	NM	NM
Idaho	231	179	29.4%	14	9	217	170	0	0	0	0
Montana	196	252	-22.1%	20	29	176	223	0	0	0	0
Nevada	21	25	-16.2%	0	0	21	25	0	0	0	0
New Mexico	305	123	146.8%	0	0	305	123	NM	NM	0	0
Utah	39	31	28.8%	0	0	39	31	0	0	0	0
Wyoming	494	439	12.6%	229	202	265	237	0	0	0	0
Pacific Contiguous	1,472	762	93.1%	318	201	1,154	560	NM	NM	NM	NM
California	708	219	222.7%	20	7	686	211	NM	NM	NM	NM
Oregon	325	238	36.8%	44	33	281	205	0	0	0	0
Washington	439	305	43.9%	253	161	186	144	0	0	0	0
Pacific Noncontiguous	39	40	-2.7%	NM	NM	28	30	0	0	0	0
Alaska	16	14	7.9%	NM	NM	NM	NM	0	0	0	0
Hawaii	23	25	-8.8%	0	0	23	25	0	0	0	0
U.S. Total	18,511	15,262	21.3%	2,651	2,627	15,842	12,620	NM	NM	NM	NM

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

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

by State, by Sector, Year-to-Date through January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	262	241	8.8%	26	29	232	208	NM	NM	NM	NM
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	162	132	23.4%	0	0	162	132	0	0	0	0
Massachusetts	20	22	-10.6%	NM	NM	11	14	NM	NM	NM	NM
New Hampshire	47	48	-2.8%	0	0	47	48	0	0	0	0
Rhode Island	NM	NM	NM	0	0	NM	NM	NM	NM	0	0
Vermont	31	37	-16.2%	20	23	11	13	0	0	0	0
Middle Atlantic	888	872	1.7%	0	0	887	872	0	0	NM	0
New Jersey	NM	NM	NM	0	0	NM	NM	0	0	0	0
New York	477	484	-1.4%	0	0	477	484	0	0	NM	0
Pennsylvania	408	386	5.7%	0	0	408	386	0	0	0	0
East North Central	2,746	2,199	24.9%	308	310	2,431	1,885	NM	NM	NM	NM
Illinois	1,268	1,004	26.3%	NM	NM	1,267	1,002	NM	NM	0	0
Indiana	656	411	59.7%	0	0	656	411	NM	NM	0	0
Michigan	519	501	3.6%	214	208	305	293	0	0	0	0
Ohio	160	126	26.6%	NM	NM	153	122	NM	0	NM	NM
Wisconsin	143	156	-8.6%	92	99	51	56	0	0	NM	NM
West North Central	4,881	5,031	-3.0%	1,589	1,691	3,289	3,337	NM	NM	0	0
Iowa	1,738	1,812	-4.1%	1,070	1,084	667	728	NM	NM	0	0
Kansas	1,062	922	15.2%	70	77	992	844	0	0	0	0
Minnesota	911	950	-4.2%	160	183	747	765	NM	NM	0	0
Missouri	98	111	-10.9%	0	0	98	111	0	0	0	0
Nebraska	279	329	-15.2%	18	25	261	303	0	0	0	0
North Dakota	565	666	-15.2%	195	250	370	416	0	0	0	0
South Dakota	229	242	-5.4%	76	72	153	170	0	0	0	0
South Atlantic	224	204	9.7%	0	0	223	203	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	57	45	25.6%	0	0	57	45	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	166	158	5.2%	0	0	166	158	0	0	0	0
East South Central	4	5	-12.8%	0	0	4	5	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	5	-12.8%	0	0	4	5	0	0	0	0
West South Central	5,887	4,082	44.2%	127	133	5,757	3,946	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	1,423	1,052	35.2%	104	113	1,319	940	0	0	0	0
Texas	4,464	3,029	47.4%	23	21	4,438	3,006	NM	NM	0	0
Mountain	2,108	1,827	15.4%	272	253	1,836	1,573	NM	NM	NM	NM
Arizona	42	16	164.1%	0	0	42	16	0	0	0	0
Colorado	780	763	2.3%	9	13	772	749	0	0	NM	NM
Idaho	231	179	29.4%	14	9	217	170	0	0	0	0
Montana	196	252	-22.1%	20	29	176	223	0	0	0	0
Nevada	21	25	-16.2%	0	0	21	25	0	0	0	0
New Mexico	305	123	146.8%	0	0	305	123	NM	NM	0	0
Utah	39	31	28.8%	0	0	39	31	0	0	0	0
Wyoming	494	439	12.6%	229	202	265	237	0	0	0	0
Pacific Contiguous	1,472	762	93.1%	318	201	1,154	560	NM	NM	NM	NM
California	708	219	222.7%	20	7	686	211	NM	NM	NM	NM
Oregon	325	238	36.8%	44	33	281	205	0	0	0	0
Washington	439	305	43.9%	253	161	186	144	0	0	0	0
Pacific Noncontiguous	39	40	-2.7%	NM	NM	28	30	0	0	0	0
Alaska	16	14	7.9%	NM	NM	NM	NM	0	0	0	0
Hawaii	23	25	-8.8%	0	0	23	25	0	0	0	0
U.S. Total	18,511	15,262	21.3%	2,651	2,627	15,842	12,620	NM	NM	NM	NM

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

Table 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	679	699	-2.9%	65	57	499	477	10	14	104	151
Connecticut	78	69	14.2%	0	0	78	66	0	NM	0	0
Maine	276	330	-16.2%	0	0	165	170	7	8	104	151
Massachusetts	105	107	-1.7%	0	0	105	106	NM	NM	0	0
New Hampshire	154	135	14.6%	31	32	120	99	3	3	0	0
Rhode Island	18	20	-8.5%	0	0	18	20	0	0	0	0
Vermont	47	40	17.6%	33	25	NM	NM	NM	NM	0	0
Middle Atlantic	516	513	0.7%	0	0	395	392	47	47	74	74
New Jersey	87	84	3.6%	0	0	71	69	16	15	0	0
New York	207	206	0.7%	0	0	169	165	18	19	21	22
Pennsylvania	222	222	-0.4%	0	0	155	158	14	13	53	51
East North Central	507	534	-5.1%	60	48	294	313	17	19	137	154
Illinois	48	53	-8.8%	0	0	48	53	0	0	0	0
Indiana	34	34	-0.8%	26	26	NM	NM	NM	NM	5	6
Michigan	207	233	-11.1%	NM	NM	140	153	11	13	57	67
Ohio	66	72	-8.2%	NM	NM	42	42	0	0	23	29
Wisconsin	152	143	6.8%	33	20	63	65	5	4	52	52
West North Central	189	199	-5.0%	45	41	91	95	12	10	41	54
Iowa	21	25	-15.8%	NM	2	10	10	3	NM	6	10
Kansas	6	6	5.7%	0	0	6	6	0	0	NM	NM
Minnesota	140	150	-7.0%	32	30	73	77	NM	NM	32	41
Missouri	12	11	12.0%	4	4	NM	2	5	4	NM	NM
Nebraska	8	6	44.9%	6	4	0	0	NM	NM	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	1,606	1,651	-2.7%	192	167	500	549	28	32	886	903
Delaware	6	6	-1.7%	0	0	5	5	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	387	432	-10.3%	28	9	192	243	3	NM	164	177
Georgia	386	381	1.5%	0	0	59	49	NM	NM	326	329
Maryland	42	48	-12.8%	0	0	33	32	NM	NM	6	14
North Carolina	182	217	-16.1%	0	0	90	95	6	6	86	116
South Carolina	219	204	7.0%	36	40	28	31	0	0	155	134
Virginia	383	362	5.9%	128	118	92	94	16	18	147	132
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	541	552	-2.1%	8	8	29	32	0	0	504	513
Alabama	275	291	-5.5%	NM	NM	20	23	0	0	254	267
Kentucky	44	44	-1.3%	8	8	NM	NM	0	0	35	36
Mississippi	133	126	5.6%	0	0	NM	NM	0	0	132	125
Tennessee	89	91	-2.3%	0	0	7	7	0	0	82	84
West South Central	526	556	-5.5%	0	14	71	71	4	4	451	468
Arkansas	125	138	-9.8%	0	0	11	10	NM	NM	113	128
Louisiana	239	236	1.1%	0	0	8	8	0	0	231	229
Oklahoma	27	29	-6.0%	0	0	NM	1	0	0	26	28
Texas	135	153	-11.7%	0	14	51	52	3	3	81	84
Mountain	95	96	-1.6%	NM	3	59	58	0	0	33	36
Arizona	22	20	10.0%	NM	2	21	19	0	0	0	0
Colorado	12	12	1.8%	0	0	12	12	0	0	0	0
Idaho	49	53	-7.0%	NM	NM	17	18	0	0	32	35
Montana	NM	NM	NM	0	0	0	0	0	0	NM	NM
Nevada	NM	2	NM	0	0	NM	2	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	6	6	0.4%	0	0	6	6	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	763	857	-11.0%	70	70	421	494	81	88	192	205
California	525	609	-13.7%	20	21	372	444	78	85	56	59
Oregon	80	98	-17.8%	6	6	37	38	NM	NM	36	52
Washington	157	151	3.9%	44	44	12	12	NM	NM	100	94
Pacific Noncontiguous	36	36	-0.9%	5	5	0	0	21	21	11	10
Alaska	5	5	-2.1%	0	0	0	0	4	5	NM	NM
Hawaii	31	31	-0.7%	5	5	0	0	16	16	10	10
U.S. Total	5,457	5,694	-4.2%	446	412	2,359	2,481	219	234	2,432	2,567

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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 January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	679	699	-2.9%	65	57	499	477	10	14	104	151
Connecticut	78	69	14.2%	0	0	78	66	0	NM	0	0
Maine	276	330	-16.2%	0	0	165	170	7	8	104	151
Massachusetts	105	107	-1.7%	0	0	105	106	NM	NM	0	0
New Hampshire	154	135	14.6%	31	32	120	99	3	3	0	0
Rhode Island	18	20	-8.5%	0	0	18	20	0	0	0	0
Vermont	47	40	17.6%	33	25	NM	NM	NM	NM	0	0
Middle Atlantic	516	513	0.7%	0	0	395	392	47	47	74	74
New Jersey	87	84	3.6%	0	0	71	69	16	15	0	0
New York	207	206	0.7%	0	0	169	165	18	19	21	22
Pennsylvania	222	222	-0.4%	0	0	155	158	14	13	53	51
East North Central	507	534	-5.1%	60	48	294	313	17	19	137	154
Illinois	48	53	-8.8%	0	0	48	53	0	0	0	0
Indiana	34	34	-0.8%	26	26	NM	NM	NM	NM	5	6
Michigan	207	233	-11.1%	NM	NM	140	153	11	13	57	67
Ohio	66	72	-8.2%	NM	NM	42	42	0	0	23	29
Wisconsin	152	143	6.8%	33	20	63	65	5	4	52	52
West North Central	189	199	-5.0%	45	41	91	95	12	10	41	54
Iowa	21	25	-15.8%	NM	2	10	10	3	NM	6	10
Kansas	6	6	5.7%	0	0	6	6	0	0	NM	NM
Minnesota	140	150	-7.0%	32	30	73	77	NM	NM	32	41
Missouri	12	11	12.0%	4	4	NM	2	5	4	NM	NM
Nebraska	8	6	44.9%	6	4	0	0	NM	NM	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	1,606	1,651	-2.7%	192	167	500	549	28	32	886	903
Delaware	6	6	-1.7%	0	0	5	5	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	387	432	-10.3%	28	9	192	243	3	NM	164	177
Georgia	386	381	1.5%	0	0	59	49	NM	NM	326	329
Maryland	42	48	-12.8%	0	0	33	32	NM	NM	6	14
North Carolina	182	217	-16.1%	0	0	90	95	6	6	86	116
South Carolina	219	204	7.0%	36	40	28	31	0	0	155	134
Virginia	383	362	5.9%	128	118	92	94	16	18	147	132
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	541	552	-2.1%	8	8	29	32	0	0	504	513
Alabama	275	291	-5.5%	NM	NM	20	23	0	0	254	267
Kentucky	44	44	-1.3%	8	8	NM	NM	0	0	35	36
Mississippi	133	126	5.6%	0	0	NM	NM	0	0	132	125
Tennessee	89	91	-2.3%	0	0	7	7	0	0	82	84
West South Central	526	556	-5.5%	0	14	71	71	4	4	451	468
Arkansas	125	138	-9.8%	0	0	11	10	NM	NM	113	128
Louisiana	239	236	1.1%	0	0	8	8	0	0	231	229
Oklahoma	27	29	-6.0%	0	0	NM	1	0	0	26	28
Texas	135	153	-11.7%	0	14	51	52	3	3	81	84
Mountain	95	96	-1.6%	NM	3	59	58	0	0	33	36
Arizona	22	20	10.0%	NM	2	21	19	0	0	0	0
Colorado	12	12	1.8%	0	0	12	12	0	0	0	0
Idaho	49	53	-7.0%	NM	NM	17	18	0	0	32	35
Montana	NM	NM	NM	0	0	0	0	0	0	NM	NM
Nevada	NM	2	NM	0	0	NM	2	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	6	6	0.4%	0	0	6	6	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	763	857	-11.0%	70	70	421	494	81	88	192	205
California	525	609	-13.7%	20	21	372	444	78	85	56	59
Oregon	80	98	-17.8%	6	6	37	38	NM	NM	36	52
Washington	157	151	3.9%	44	44	12	12	NM	NM	100	94
Pacific Noncontiguous	36	36	-0.9%	5	5	0	0	21	21	11	10
Alaska	5	5	-2.1%	0	0	0	0	4	5	NM	NM
Hawaii	31	31	-0.7%	5	5	0	0	16	16	10	10
U.S. Total	5,457	5,694	-4.2%	446	412	2,359	2,481	219	234	2,432	2,567

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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 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 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	378	341	10.9%	24	24	354	317	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	9	NM	0	0	NM	9	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	321	282	13.7%	0	0	321	282	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	47	49	-3.0%	24	24	24	25	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,039	1,115	-6.9%	74	71	965	1,044	0	0	0	0
California	1,019	1,096	-7.1%	73	71	946	1,025	0	0	0	0
Oregon	20	19	6.9%	NM	0	19	19	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	1,436	1,475	-2.7%	98	95	1,338	1,381	0	0	0	0

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

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

by State, by Sector, Year-to-Date through January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 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	378	341	10.9%	24	24	354	317	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	9	NM	0	0	NM	9	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	321	282	13.7%	0	0	321	282	0	0	0	0
New Mexico	NM	NM	NM	0	0	NM	NM	0	0	0	0
Utah	47	49	-3.0%	24	24	24	25	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,039	1,115	-6.9%	74	71	965	1,044	0	0	0	0
California	1,019	1,096	-7.1%	73	71	946	1,025	0	0	0	0
Oregon	20	19	6.9%	NM	0	19	19	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	1,436	1,475	-2.7%	98	95	1,338	1,381	0	0	0	0

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

Table 1.17.A. Net Generation from Solar Photovoltaic by State, by Sector, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	104	85	22.2%	40	37	64	48	NM	NM	39	36	NM	NM	NM	NM	40	33	3	2	0	0	3	2	22	13
Connecticut	NM	9	NM	NM	NM	13	8	0	0	NM	NM	6	4	0	0	6	4	1	0	0	0	1	0	7	3
Maine	NM	1	NM	0	0	NM	1	0	0	0	0	NM	0	0	0	NM	0	0	0	0	0	0	0	NM	1
Massachusetts	78	68	14.4%	35	32	43	36	NM	NM	34	31	NM	NM	NM	NM	32	27	2	2	0	0	2	2	9	7
New Hampshire	2	1	96.4%	0	0	2	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Rhode Island	NM	1	NM	NM	NM	1	1	0	0	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Vermont	NM	6	NM	NM	NM	4	2	0	0	NM	NM	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Middle Atlantic	171	148	15.9%	52	48	119	99	NM	NM	37	35	80	NM	9	NM	72	64	NM	NM	NM	NM	8	7	39	28
New Jersey	114	105	8.2%	41	39	72	66	NM	NM	27	26	60	NM	8	NM	51	48	NM	NM	NM	NM	4	4	16	14
New York	40	26	51.9%	7	5	33	21	0	0	7	5	NM	NM	NM	NM	14	11	1	0	0	0	1	0	18	10
Pennsylvania	NM	17	NM	NM	NM	14	13	0	0	NM	NM	NM	NM	NM	NM	6	5	NM	NM	NM	NM	3	3	5	5
East North Central	31	25	21.2%	21	17	10	8	NM	NM	17	16	NM	NM	NM	NM	7	6	NM	NM	NM	NM	0	0	3	2
Illinois	NM	4	NM	NM	NM	1	1	NM	NM	NM	NM	1	1	0	0	1	1	NM	NM	0	0	NM	NM	0	0
Indiana	14	11	30.4%	13	10	1	1	NM	NM	11	10	1	0	0	0	1	0	NM	NM	0	0	NM	NM	0	0
Michigan	NM	2	NM	NM	0	2	2	NM	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	0
Ohio	NM	7	NM	NM	NM	4	4	NM	NM	NM	NM	NM	NM	NM	NM	3	3	NM	NM	NM	NM	0	0	1	1
Wisconsin	NM	1	NM	NM	NM	1	1	0	0	NM	NM	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	0
West North Central	NM	12	NM	NM	NM	13	11	0	0	NM	NM	NM	7	NM	0	8	7	0	0	0	0	0	0	5	4
Iowa	2	2	32.0%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Kansas	NM	0	NM	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minnesota	NM	1	NM	NM	NM	1	1	0	0	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	1	0
Missouri	NM	9	NM	NM	NM	9	8	0	0	NM	NM	NM	5	NM	0	5	5	0	0	0	0	0	0	4	3
Nebraska	0	0	43.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	0	0	0	NM	0	0	0
North Dakota	0	0	-12.6%	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	9.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	275	142	93.4%	219	101	56	41	22	6	190	90	41	NM	7	NM	34	29	2	1	0	0	2	1	19	12
Delaware	NM	7	NM	NM	NM	4	4	NM	NM	NM	NM	NM	NM	NM	NM	3	3	0	0	0	0	0	0	1	1
District of Columbia	2	2	0.9%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Florida	22	18	24.4%	8	8	14	10	4	4	NM	NM	NM	NM	NM	NM	7	6	0	0	0	0	0	0	6	4
Georgia	35	13	163.6%	29	8	6	6	4	NM	25	7	NM	NM	NM	NM	5	5	NM	0	0	0	NM	0	NM	0
Maryland	28	18	52.6%	8	NM	20	12	NM	NM	8	NM	NM	NM	NM	NM	11	8	1	0	0	0	1	0	7	4
North Carolina	176	82	116.0%	169	76	7	5	13	NM	150	72	12	NM	6	NM	5	4	0	0	0	0	0	0	2	1
South Carolina	NM	1	NM	NM	NM	1	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Virginia	2	2	46.4%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	NM	0	0	0	NM	0	1	1
West Virginia	0	0	22.8%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East South Central	NM	10	NM	NM	NM	5	5	0	0	NM	NM	NM	NM	NM	NM	4	4	0	0	0	0	0	0	0	0
Alabama	0	0	2.4%	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	10.2%	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	6.1%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	NM	9	NM	NM	NM	4	4	0	0	NM	NM	NM	NM	NM	NM	4	4	0	0	0	0	0	0	0	0
West South Central	72	40	80.8%	44	21	28	19	0	0	44	21	NM	NM	NM	NM	7	5	0	0	0	0	0	0	21	14
Arkansas	NM	0	NM	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Louisiana	12	8	46.6%	0	0	12	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	8
Oklahoma	1	0	174.1%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Texas	58	32	85.0%	43	21	16	11	0	0	43	21	NM	NM	NM	NM	6	5	0	0	0	0	0	0	9	6
Mountain	503	385	30.7%	357	275	146	110	39	33	311	237	NM	NM	NM	NM	55	49	NM	NM	NM	NM	12	9	79	52
Arizona	263	217	21.4%	178	149	85	68	30	27	147	121	NM	NM	NM	NM	30	27	10	8	0	0	10	8	45	33
Colorado	49	37	35.0%	21	14	28	23	0	0	20	13	NM	NM	NM	NM	13	12	0	0	0	0	0	0	15	11
Idaho	0	0	52.6%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Montana	0	0	32.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nevada	119	86	37.2%	104	80	15	6	NM	0	98	79	NM	NM	NM	NM	5	3	NM	NM	NM	NM	1	1	9	2
New Mexico	47	41	13.3%	35	32	11	9	8	NM	28	25	5	5	0	0	5	5	0	0	0	0	0	0	6	4
Utah	24	3	708.7%	18	NM	6	3	0	0	18	NM	2	1	0	0	2	1	0	0	0	0	0	0	3	1
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	1,069	906	18.0%	716	645	353	260	28	24	680	616	104	NM	7	NM	97	74	NM	NM	NM	NM	55	46	202	141
California	1,061	899	18.0%	714	644	347	256	28	24	679	615	102	NM	7	NM	95	72	NM	NM	NM	NM	54	46	198	138
Oregon	NM	5	NM	NM	NM	4	3	NM	NM	NM	NM	2	2	0	0	2	2	0	0	0	0	0	0	2	2
Washington	2	1	63.3%	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1
Pacific Noncontiguous	NM	44	NM	NM	NM	51	41	NM	NM	NM	NM	18	16	0	0	18	16	0	0	0	0	0	0	33	25
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	NM	44	NM	NM	NM	51	41	NM	NM	NM	NM	18	16	0	0	18	16	0	0	0	0	0	0	33	25
U.S. Total	2,306	1,797	28.3%	1,460	1,154	845	643	102	72	1,328	1,058	371	310	29	23	342	286	NM	NM	NM	NM	80	66	423	291

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 January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	104	85	22.2%	40	37	64	48	NM	NM	39	36	NM	NM	NM	NM	40	33	3	2	0	0	3	2	22	13
Connecticut	NM	9	NM	NM	NM	13	8	0	0	NM	NM	6	4	0	0	6	4	1	0	0	0	1	0	7	3
Maine	NM	1	NM	0	0	NM	1	0	0	0	0	NM	0	0	0	NM	0	0	0	0	0	0	0	NM	1
Massachusetts	78	68	14.4%	35	32	43	36	NM	NM	34	31	NM	NM	NM	NM	32	27	2	2	0	0	2	2	9	7
New Hampshire	2	1	96.4%	0	0	2	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1
Rhode Island	NM	1	NM	NM	NM	1	1	0	0	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Vermont	NM	6	NM	NM	NM	4	2	0	0	NM	NM	2	1	0	0	2	1	0	0	0	0	0	0	3	2
Middle Atlantic	171	148	15.9%	52	48	119	99	NM	NM	37	35	80	NM	9	NM	72	64	NM	NM	NM	NM	8	7	39	28
New Jersey	114	105	8.2%	41	39	72	66	NM	NM	27	26	60	NM	8	NM	51	48	NM	NM	NM	NM	4	4	16	14
New York	40	26	51.9%	7	5	33	21	0	0	7	5	NM	NM	NM	NM	14	11	1	0	0	0	1	0	18	10
Pennsylvania	NM	17	NM	NM	NM	14	13	0	0	NM	NM	NM	NM	NM	NM	6	5	NM	NM	NM	NM	3	3	5	5
East North Central	31	25	21.2%	21	17	10	8	NM	NM	17	16	NM	NM	NM	NM	7	6	NM	NM	NM	NM	0	0	3	2
Illinois	NM	4	NM	NM	NM	1	1	NM	NM	NM	NM	1	1	0	0	1	1	NM	NM	0	0	NM	NM	0	0
Indiana	14	11	30.4%	13	10	1	1	NM	NM	11	10	1	0	0	0	1	0	NM	NM	0	0	NM	NM	0	0
Michigan	NM	2	NM	NM	0	2	2	NM	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	0
Ohio	NM	7	NM	NM	NM	4	4	NM	NM	NM	NM	NM	NM	NM	NM	3	3	NM	NM	NM	NM	0	0	1	1
Wisconsin	NM	1	NM	NM	NM	1	1	0	0	NM	NM	1	1	0	0	1	1	NM	NM	0	0	NM	NM	1	0
West North Central	NM	12	NM	NM	NM	13	11	0	0	NM	NM	NM	7	NM	0	8	7	0	0	0	0	0	0	5	4
Iowa	2	2	32.0%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Kansas	NM	0	NM	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minnesota	NM	1	NM	NM	NM	1	1	0	0	NM	NM	1	1	0	0	1	1	0	0	0	0	0	0	1	0
Missouri	NM	9	NM	NM	NM	9	8	0	0	NM	NM	NM	5	NM	0	5	5	0	0	0	0	0	0	4	3
Nebraska	0	0	43.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	0	0	0	NM	0	0	0
North Dakota	0	0	-12.6%	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	9.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	275	142	93.4%	219	101	56	41	22	6	190	90	41	NM	7	NM	34	29	2	1	0	0	2	1	19	12
Delaware	NM	7	NM	NM	NM	4	4	NM	NM	NM	NM	NM	NM	NM	NM	3	3	0	0	0	0	0	0	1	1
District of Columbia	2	2	0.9%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Florida	22	18	24.4%	8	8	14	10	4	4	NM	NM	NM	NM	NM	NM	7	6	0	0	0	0	0	0	6	4
Georgia	35	13	163.6%	29	8	6	6	4	NM	25	7	NM	NM	NM	NM	5	5	NM	0	0	0	NM	0	NM	0
Maryland	28	18	52.6%	8	NM	20	12	NM	NM	8	NM	NM	NM	NM	NM	11	8	1	0	0	0	1	0	7	4
North Carolina	176	82	116.0%	169	76	7	5	13	NM	150	72	12	NM	6	NM	5	4	0	0	0	0	0	0	2	1
South Carolina	NM	1	NM	NM	NM	1	0	0	0	NM	NM	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Virginia	2	2	46.4%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	NM	0	0	0	NM	0	1	1
West Virginia	0	0	22.8%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East South Central	NM	10	NM	NM	NM	5	5	0	0	NM	NM	NM	NM	NM	NM	4	4	0	0	0	0	0	0	0	0
Alabama	0	0	2.4%	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	10.2%	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	6.1%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	NM	9	NM	NM	NM	4	4	0	0	NM	NM	NM	NM	NM	NM	4	4	0	0	0	0	0	0	0	0
West South Central	72	40	80.8%	44	21	28	19	0	0	44	21	NM	NM	NM	NM	7	5	0	0	0	0	0	0	21	14
Arkansas	NM	0	NM	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Louisiana	12	8	46.6%	0	0	12	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	8
Oklahoma	1	0	174.1%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Texas	58	32	85.0%	43	21	16	11	0	0	43	21	NM	NM	NM	NM	6	5	0	0	0	0	0	0	9	6
Mountain	503	385	30.7%	357	275	146	110	39	33	311	237	NM	NM	NM	NM	55	49	NM	NM	NM	NM	12	9	79	52
Arizona	263	217	21.4%	178	149	85	68	30	27	147	121	NM	NM	NM	NM	30	27	10	8	0	0	10	8	45	33
Colorado	49	37	35.0%	21	14	28	23	0	0	20	13	NM	NM	NM	NM	13	12	0	0	0	0	0	0	15	11
Idaho	0	0	52.6%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Montana	0	0	32.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nevada	119	86	37.2%	104	80	15	6	NM	0	98	79	NM	NM	NM	NM	5	3	NM	NM	NM	NM	1	1	9	2
New Mexico	47	41	13.3%	35	32	11	9	8	NM	28	25	5	5	0	0	5	5	0	0	0	0	0	0	6	4
Utah	24	3	708.7%	18	NM	6	3	0	0	18	NM	2	1	0	0	2	1	0	0	0	0	0	0	3	1
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	1,069	906	18.0%	716	645	353	260	28	24	680	616	104	NM	7	NM	97	74	NM	NM	NM	NM	55	46	202	141
California	1,061	899	18.0%	714	644	347	256	28	24	679	615	102	NM	7	NM	95	72	NM	NM	NM	NM	54	46	198	138
Oregon	NM	5	NM	NM	NM	4	3	NM	NM	NM	NM	2	2	0	0	2	2	0	0	0	0	0	0	2	2
Washington	2	1	63.3%	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1
Pacific Noncontiguous	NM	44	NM	NM	NM	51	41	NM	NM	NM	NM	18	16	0	0	18	16	0	0	0	0	0	0	33	25
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	NM	44	NM	NM	NM	51	41	NM	NM	NM	NM	18	16	0	0	18	16	0	0	0	0	0	0	33	25
U.S. Total	2,306	1,797	28.3%	1,460	1,154	845	643	102	72	1,328	1,058	371	310	29	23	342	286	NM	NM	NM	NM	80	66	423	291

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, January 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	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 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	2	5	-53.0%	2	5	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	2	5	-53.0%	2	5	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	36	14	155.8%	0	0	36	14	0	0	0	0
Arizona	33	12	172.7%	0	0	33	12	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	3	2	55.9%	0	0	3	2	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	47	45	4.9%	0	0	47	45	0	0	0	0
California	47	45	4.9%	0	0	47	45	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	86	64	34.2%	2	5	84	59	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 January 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	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 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	2	5	-53.0%	2	5	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	2	5	-53.0%	2	5	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	36	14	155.8%	0	0	36	14	0	0	0	0
Arizona	33	12	172.7%	0	0	33	12	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	3	2	55.9%	0	0	3	2	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	47	45	4.9%	0	0	47	45	0	0	0	0
California	47	45	4.9%	0	0	47	45	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	86	64	34.2%	2	5	84	59	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-January 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
Year to Date					
2014	83,647	61,084	22,129	27	407
2015	71,302	51,530	19,403	17	351
2016	62,151	46,090	15,729	13	319
Rolling 12 Months Ending in January					
2015	841,289	614,681	221,843	192	4,573
2016	731,704	543,050	184,358	159	4,137

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-January 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
Year to Date					
2014	1,773	114	171	105	1,384
2015	1,669	91	176	79	1,325
2016	1,516	90	140	66	1,220
Rolling 12 Months Ending in January					
2015	18,003	955	1,826	835	14,388
2016	17,570	1,233	1,898	685	13,755

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

Table 2.1.C. Coal: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-January 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
Year to Date					
2014	85,420	61,198	22,300	132	1,791
2015	72,972	51,621	19,579	96	1,676
2016	63,667	46,180	15,869	79	1,539
Rolling 12 Months Ending in January					
2015	859,293	615,636	223,669	1,027	18,961
2016	749,273	544,283	186,256	844	17,891

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-January 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
Year to Date					
2014	10,190	4,468	5,487	112	122
2015	3,356	2,097	1,120	55	85
2016	2,380	1,713	592	11	64
Rolling 12 Months Ending in January					
2015	24,698	17,281	6,321	393	702
2016	28,569	18,687	8,792	348	742

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-January 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
Year to Date					
2014	643	45	189	115	294
2015	329	9	109	26	185
2016	242	4	87	18	133
Rolling 12 Months Ending in January					
2015	2,785	28	1,089	126	1,541
2016	2,995	59	1,202	176	1,558

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

Table 2.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-January 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
Year to Date					
2014	10,833	4,513	5,677	227	416
2015	3,685	2,105	1,229	81	271
2016	2,623	1,717	680	29	197
Rolling 12 Months Ending in January					
2015	27,483	17,309	7,410	520	2,244
2016	31,564	18,746	9,994	524	2,300

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

Table 2.3.A. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2006-January 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
Year to Date					
2014	436	349	55	0	32
2015	400	312	57	0	30
2016	346	302	17	0	27
Rolling 12 Months Ending in January					
2015	4,376	3,404	601	2	369
2016	4,034	3,108	632	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-January 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
Year to Date					
2014	105	0	9	2	95
2015	140	0	10	2	128
2016	83	0	10	2	70
Rolling 12 Months Ending in January					
2015	1,318	4	91	17	1,207
2016	1,305	9	110	16	NM

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

Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-January 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
Year to Date					
2014	541	349	63	2	127
2015	540	313	67	3	158
2016	429	302	27	3	98
Rolling 12 Months Ending in January					
2015	5,694	3,407	692	19	1,576
2016	5,339	3,118	741	18	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-January 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
Year to Date					
2014	694,661	324,657	309,522	6,411	54,071
2015	747,937	342,461	344,326	6,033	55,117
2016	808,418	388,873	360,075	6,291	53,178
Rolling 12 Months Ending in January					
2015	8,597,663	3,912,812	3,988,836	71,579	624,436
2016	10,108,826	4,779,453	4,639,853	73,805	615,715

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-January 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
Year to Date					
2014	87,362	527	28,175	7,205	51,455
2015	79,362	751	26,697	4,911	47,004
2016	83,303	1,101	26,477	5,163	50,563
Rolling 12 Months Ending in January					
2015	857,146	5,150	290,538	44,341	517,118
2016	923,898	8,874	305,205	53,714	556,105

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

Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-January 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
Year to Date					
2014	782,023	325,184	337,697	13,616	105,526
2015	827,300	343,212	371,023	10,944	102,121
2016	891,720	389,973	386,552	11,454	103,741
Rolling 12 Months Ending in January					
2015	9,454,809	3,917,962	4,279,374	115,919	1,141,554
2016	11,032,725	4,788,327	4,945,059	127,519	1,171,820

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.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2006-January 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
Year to Date					
2014	24,810	2,187	19,717	2,506	401
2015	28,955	2,743	22,785	2,902	525
2016	28,588	2,679	22,961	2,479	469
Rolling 12 Months Ending in January					
2015	290,127	26,375	231,515	27,435	4,802
2016	326,088	31,048	263,253	26,618	5,169

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

Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2006-January 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
Year to Date					
2014	169	20	62	61	25
2015	562	17	251	182	112
2016	437	18	189	146	84
Rolling 12 Months Ending in January					
2015	2,103	173	713	795	422
2016	2,871	210	1,313	881	467

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-January 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
Year to Date					
2014	24,980	2,207	19,779	2,567	426
2015	29,517	2,760	23,036	3,084	637
2016	29,025	2,698	23,149	2,625	553
Rolling 12 Months Ending in January					
2015	292,230	26,548	232,228	28,230	5,224
2016	328,959	31,258	264,566	27,499	5,636

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

Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2006-January 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
Year to Date					
2014	1,381	28	1,131	221	0
2015	1,293	31	1,068	194	1
2016	1,333	95	1,058	179	1
Rolling 12 Months Ending in January					
2015	16,618	446	13,745	2,420	6
2016	15,683	830	12,661	2,187	5

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

Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2006-January 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
Year to Date					
2014	203	0	59	126	17
2015	170	0	68	89	14
2016	155	0	63	81	12
Rolling 12 Months Ending in January					
2015	1,923	0	659	1,067	197
2016	1,838	0	643	1,025	170

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 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2006-January 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
Year to Date					
2014	1,584	28	1,190	347	18
2015	1,463	31	1,135	282	15
2016	1,488	95	1,121	260	13
Rolling 12 Months Ending in January					
2015	18,540	446	14,405	3,487	203
2016	17,521	830	13,304	3,212	175

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-January 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
Year to Date					
2014	37,135	4,268	14,488	150	18,228
2015	37,759	4,213	15,381	82	18,083
2016	35,775	4,263	14,257	65	17,190
Rolling 12 Months Ending in January					
2015	431,909	45,589	175,406	893	210,022
2016	421,981	44,045	173,913	706	203,317

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 2.7.B. Wood / Wood Waste Biomass: Consumption for Useful Thermal Output, by Sector, 2006-January 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
Year to Date					
2014	80,405	649	1,975	311	77,469
2015	84,158	862	1,703	374	81,220
2016	79,935	840	1,732	470	76,893
Rolling 12 Months Ending in January					
2015	950,097	9,047	21,989	3,829	915,231
2016	919,414	9,223	18,057	3,628	888,506

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

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	246	503	-51.0%	37	135	208	366	0	0	1	2
Connecticut	28	120	-76.0%	0	0	28	120	0	0	0	0
Maine	2	3	-41.0%	0	0	2	2	0	0	0	2
Massachusetts	178	245	-27.0%	0	0	178	245	0	0	NM	0
New Hampshire	37	135	-73.0%	37	135	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	3,027	3,776	-20.0%	0	0	3,006	3,753	NM	0	21	23
New Jersey	55	133	-59.0%	0	0	55	133	0	0	0	0
New York	92	159	-42.0%	0	0	86	153	0	0	5	6
Pennsylvania	2,880	3,484	-17.0%	0	0	2,865	3,467	NM	0	15	17
East North Central	13,673	16,222	-16.0%	8,532	9,922	5,059	6,210	3	4	79	87
Illinois	3,431	4,385	-22.0%	393	494	2,986	3,836	1	1	51	53
Indiana	3,240	3,897	-17.0%	2,992	3,671	247	225	1	1	NM	0
Michigan	2,446	2,385	2.6%	2,419	2,353	19	20	0	1	8	11
Ohio	2,713	3,416	-21.0%	900	1,282	1,808	2,128	NM	NM	5	6
Wisconsin	1,842	2,139	-14.0%	1,829	2,122	0	0	NM	NM	14	17
West North Central	11,570	12,055	-4.0%	11,444	11,919	1	1	4	6	121	128
Iowa	1,497	1,739	-14.0%	1,431	1,669	0	0	2	3	63	66
Kansas	1,335	1,367	-2.3%	1,335	1,367	0	0	0	0	0	0
Minnesota	1,470	1,526	-3.7%	1,440	1,494	0	0	NM	NM	30	31
Missouri	3,600	3,926	-8.3%	3,596	3,920	1	1	2	3	1	2
Nebraska	1,354	1,202	13.0%	1,333	1,180	0	0	0	0	21	22
North Dakota	2,157	2,123	1.6%	2,152	2,117	0	0	0	0	5	6
South Dakota	157	172	-8.6%	157	172	0	0	0	0	0	0
South Atlantic	8,985	10,209	-12.0%	7,778	8,856	1,172	1,298	NM	3	33	52
Delaware	60	50	19.0%	0	0	60	50	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,146	1,368	-16.0%	1,142	1,364	0	0	0	0	NM	NM
Georgia	1,574	1,591	-1.1%	1,570	1,583	0	0	0	0	NM	8
Maryland	473	664	-29.0%	0	0	471	659	0	NM	2	4
North Carolina	1,512	1,585	-4.6%	1,490	1,571	NM	NM	2	2	NM	NM
South Carolina	757	984	-23.0%	751	979	0	0	0	0	6	5
Virginia	666	861	-23.0%	623	820	35	35	NM	NM	7	7
West Virginia	2,797	3,105	-9.9%	2,202	2,539	591	547	0	0	4	19
East South Central	6,097	7,115	-14.0%	5,834	6,794	240	298	0	0	23	23
Alabama	1,285	1,541	-17.0%	1,279	1,536	0	0	0	0	NM	NM
Kentucky	3,090	3,489	-11.0%	3,090	3,489	0	0	0	0	0	0
Mississippi	394	473	-17.0%	154	175	240	298	0	0	0	0
Tennessee	1,329	1,612	-18.0%	1,312	1,595	0	0	0	0	17	17
West South Central	9,351	11,734	-20.0%	4,674	5,814	4,664	5,910	0	0	NM	NM
Arkansas	1,125	949	19.0%	901	920	223	28	0	0	2	1
Louisiana	764	1,341	-43.0%	530	719	234	622	0	0	0	0
Oklahoma	1,047	1,485	-30.0%	906	1,380	129	98	0	0	NM	NM
Texas	6,416	7,958	-19.0%	2,337	2,795	4,079	5,163	0	0	0	0
Mountain	8,640	9,181	-5.9%	7,575	8,053	1,044	1,107	0	0	20	20
Arizona	1,478	1,762	-16.0%	1,478	1,762	0	0	0	0	0	0
Colorado	1,530	1,588	-3.7%	1,528	1,587	NM	NM	0	0	NM	NM
Idaho	1	1	-7.5%	0	0	0	0	0	0	1	1
Montana	958	1,015	-5.6%	NM	NM	932	990	0	0	NM	NM
Nevada	87	122	-29.0%	45	78	42	44	0	0	0	0
New Mexico	995	932	6.7%	995	932	0	0	0	0	0	0
Utah	1,223	1,396	-12.0%	1,200	1,368	NM	NM	0	0	0	0
Wyoming	2,368	2,362	0.2%	2,303	2,301	NM	NM	0	0	19	18
Pacific Contiguous	447	405	10.0%	185	14	255	385	0	0	7	7
California	7	6	8.1%	0	0	0	NM	0	0	7	6
Oregon	185	14	NM	185	14	0	0	0	0	0	0
Washington	255	385	-34.0%	0	0	255	385	0	0	1	0
Pacific Noncontiguous	116	103	12.0%	31	23	79	76	4	4	NM	NM
Alaska	53	44	20.0%	31	23	18	18	4	4	0	0
Hawaii	63	59	6.4%	0	0	61	58	0	0	NM	NM
U.S. Total	62,151	71,302	-13.0%	46,090	51,530	15,729	19,403	13	17	319	351

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 January 2016 and January 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	246	503	-51.0%	37	135	208	366	0	0	1	2
Connecticut	28	120	-76.0%	0	0	28	120	0	0	0	0
Maine	2	3	-41.0%	0	0	2	2	0	0	0	2
Massachusetts	178	245	-27.0%	0	0	178	245	0	0	NM	0
New Hampshire	37	135	-73.0%	37	135	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	3,027	3,776	-20.0%	0	0	3,006	3,753	NM	0	21	23
New Jersey	55	133	-59.0%	0	0	55	133	0	0	0	0
New York	92	159	-42.0%	0	0	86	153	0	0	5	6
Pennsylvania	2,880	3,484	-17.0%	0	0	2,865	3,467	NM	0	15	17
East North Central	13,673	16,222	-16.0%	8,532	9,922	5,059	6,210	3	4	79	87
Illinois	3,431	4,385	-22.0%	393	494	2,986	3,836	1	1	51	53
Indiana	3,240	3,897	-17.0%	2,992	3,671	247	225	1	1	NM	0
Michigan	2,446	2,385	2.6%	2,419	2,353	19	20	0	1	8	11
Ohio	2,713	3,416	-21.0%	900	1,282	1,808	2,128	NM	NM	5	6
Wisconsin	1,842	2,139	-14.0%	1,829	2,122	0	0	NM	NM	14	17
West North Central	11,570	12,055	-4.0%	11,444	11,919	1	1	4	6	121	128
Iowa	1,497	1,739	-14.0%	1,431	1,669	0	0	2	3	63	66
Kansas	1,335	1,367	-2.3%	1,335	1,367	0	0	0	0	0	0
Minnesota	1,470	1,526	-3.7%	1,440	1,494	0	0	NM	NM	30	31
Missouri	3,600	3,926	-8.3%	3,596	3,920	1	1	2	3	1	2
Nebraska	1,354	1,202	13.0%	1,333	1,180	0	0	0	0	21	22
North Dakota	2,157	2,123	1.6%	2,152	2,117	0	0	0	0	5	6
South Dakota	157	172	-8.6%	157	172	0	0	0	0	0	0
South Atlantic	8,985	10,209	-12.0%	7,778	8,856	1,172	1,298	NM	3	33	52
Delaware	60	50	19.0%	0	0	60	50	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,146	1,368	-16.0%	1,142	1,364	0	0	0	0	NM	NM
Georgia	1,574	1,591	-1.1%	1,570	1,583	0	0	0	0	NM	8
Maryland	473	664	-29.0%	0	0	471	659	0	NM	2	4
North Carolina	1,512	1,585	-4.6%	1,490	1,571	NM	NM	2	2	NM	NM
South Carolina	757	984	-23.0%	751	979	0	0	0	0	6	5
Virginia	666	861	-23.0%	623	820	35	35	NM	NM	7	7
West Virginia	2,797	3,105	-9.9%	2,202	2,539	591	547	0	0	4	19
East South Central	6,097	7,115	-14.0%	5,834	6,794	240	298	0	0	23	23
Alabama	1,285	1,541	-17.0%	1,279	1,536	0	0	0	0	NM	NM
Kentucky	3,090	3,489	-11.0%	3,090	3,489	0	0	0	0	0	0
Mississippi	394	473	-17.0%	154	175	240	298	0	0	0	0
Tennessee	1,329	1,612	-18.0%	1,312	1,595	0	0	0	0	17	17
West South Central	9,351	11,734	-20.0%	4,674	5,814	4,664	5,910	0	0	NM	NM
Arkansas	1,125	949	19.0%	901	920	223	28	0	0	2	1
Louisiana	764	1,341	-43.0%	530	719	234	622	0	0	0	0
Oklahoma	1,047	1,485	-30.0%	906	1,380	129	98	0	0	NM	NM
Texas	6,416	7,958	-19.0%	2,337	2,795	4,079	5,163	0	0	0	0
Mountain	8,640	9,181	-5.9%	7,575	8,053	1,044	1,107	0	0	20	20
Arizona	1,478	1,762	-16.0%	1,478	1,762	0	0	0	0	0	0
Colorado	1,530	1,588	-3.7%	1,528	1,587	NM	NM	0	0	NM	NM
Idaho	1	1	-7.5%	0	0	0	0	0	0	1	1
Montana	958	1,015	-5.6%	NM	NM	932	990	0	0	NM	NM
Nevada	87	122	-29.0%	45	78	42	44	0	0	0	0
New Mexico	995	932	6.7%	995	932	0	0	0	0	0	0
Utah	1,223	1,396	-12.0%	1,200	1,368	NM	NM	0	0	0	0
Wyoming	2,368	2,362	0.2%	2,303	2,301	NM	NM	0	0	19	18
Pacific Contiguous	447	405	10.0%	185	14	255	385	0	0	7	7
California	7	6	8.1%	0	0	0	NM	0	0	7	6
Oregon	185	14	NM	185	14	0	0	0	0	0	0
Washington	255	385	-34.0%	0	0	255	385	0	0	1	0
Pacific Noncontiguous	116	103	12.0%	31	23	79	76	4	4	NM	NM
Alaska	53	44	20.0%	31	23	18	18	4	4	0	0
Hawaii	63	59	6.4%	0	0	61	58	0	0	NM	NM
U.S. Total	62,151	71,302	-13.0%	46,090	51,530	15,729	19,403	13	17	319	351

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	110	437	-75.0%	17	16	88	404	NM	14	1	3
Connecticut	18	36	-48.0%	1	NM	16	33	NM	NM	NM	NM
Maine	42	195	-78.0%	NM	NM	41	191	NM	NM	1	3
Massachusetts	38	164	-77.0%	12	2	25	156	NM	NM	NM	NM
New Hampshire	NM	26	NM	2	10	NM	14	NM	NM	NM	NM
Rhode Island	8	14	-42.0%	2	2	6	11	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	255	764	-67.0%	94	365	145	374	4	8	13	16
New Jersey	18	84	-78.0%	NM	NM	18	84	NM	NM	NM	NM
New York	175	572	-69.0%	93	365	69	186	3	8	10	13
Pennsylvania	62	108	-43.0%	NM	NM	58	104	NM	NM	3	NM
East North Central	97	105	-7.6%	67	74	26	27	1	NM	3	3
Illinois	15	8	87.0%	4	NM	11	5	1	NM	NM	NM
Indiana	22	25	-12.0%	20	23	NM	NM	NM	NM	2	2
Michigan	23	16	38.0%	22	16	0	0	NM	NM	1	NM
Ohio	31	40	-23.0%	15	18	15	21	NM	NM	0	1
Wisconsin	NM	15	NM	NM	14	NM	NM	NM	NM	NM	NM
West North Central	41	61	-34.0%	35	57	NM	NM	NM	NM	NM	NM
Iowa	6	7	-9.8%	6	7	NM	NM	NM	NM	NM	NM
Kansas	8	15	-50.0%	8	15	0	0	0	0	0	0
Minnesota	8	7	15.0%	NM	3	NM	NM	NM	NM	NM	NM
Missouri	11	22	-49.0%	11	22	NM	NM	NM	NM	0	0
Nebraska	NM	4	NM	NM	4	0	0	0	0	0	0
North Dakota	NM	4	NM	NM	4	0	0	NM	NM	NM	NM
South Dakota	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
South Atlantic	745	798	-6.7%	509	545	212	190	NM	30	22	33
Delaware	29	50	-43.0%	NM	NM	28	49	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	71	160	-56.0%	67	157	NM	NM	0	0	3	2
Georgia	72	95	-24.0%	22	34	33	35	NM	NM	16	26
Maryland	76	85	-11.0%	2	NM	73	53	NM	30	0	NM
North Carolina	114	152	-25.0%	63	138	50	13	NM	NM	NM	NM
South Carolina	55	68	-20.0%	51	59	NM	7	NM	NM	2	2
Virginia	311	168	86.0%	285	136	25	31	NM	NM	NM	1
West Virginia	17	19	-10.0%	17	18	0	1	0	0	0	0
East South Central	74	71	4.6%	59	59	11	7	NM	NM	4	4
Alabama	24	31	-23.0%	9	20	10	7	0	0	4	4
Kentucky	16	17	-5.4%	16	17	0	0	0	0	0	0
Mississippi	8	3	162.0%	8	3	0	0	0	0	0	0
Tennessee	26	19	31.0%	25	19	NM	NM	NM	NM	NM	NM
West South Central	31	48	-36.0%	25	26	5	21	NM	NM	NM	NM
Arkansas	12	11	7.6%	10	5	1	5	0	0	0	0
Louisiana	5	22	-79.0%	3	14	2	8	0	0	0	0
Oklahoma	4	NM	NM	4	NM	0	0	NM	NM	NM	NM
Texas	11	15	-31.0%	8	7	2	8	NM	NM	NM	NM
Mountain	34	42	-17.0%	30	39	4	NM	NM	NM	NM	0
Arizona	5	11	-58.0%	5	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	NM	NM	NM	NM	3	1	0	0	0	0
Nevada	2	4	-41.0%	2	3	1	0	0	0	0	0
New Mexico	13	12	12.0%	13	12	0	0	0	0	NM	NM
Utah	NM	NM	NM	2	NM	NM	NM	0	0	NM	NM
Wyoming	6	7	-8.4%	6	6	0	0	0	0	0	0
Pacific Contiguous	10	14	-26.0%	6	6	NM	NM	NM	NM	1	2
California	NM	11	NM	5	5	NM	NM	NM	NM	NM	NM
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	2	3	-36.0%	NM	NM	0	NM	NM	NM	1	2
Pacific Noncontiguous	983	1,017	-3.3%	870	908	94	85	1	NM	NM	23
Alaska	130	131	-0.4%	120	121	0	0	NM	NM	10	9
Hawaii	854	886	-3.7%	750	787	94	85	1	1	NM	14
U.S. Total	2,380	3,356	-29.0%	1,713	2,097	592	1,120	11	55	64	85

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	110	437	-75.0%	17	16	88	404	NM	14	1	3
Connecticut	18	36	-48.0%	1	NM	16	33	NM	NM	NM	NM
Maine	42	195	-78.0%	NM	NM	41	191	NM	NM	1	3
Massachusetts	38	164	-77.0%	12	2	25	156	NM	NM	NM	NM
New Hampshire	NM	26	NM	2	10	NM	14	NM	NM	NM	NM
Rhode Island	8	14	-42.0%	2	2	6	11	NM	NM	0	0
Vermont	NM	NM	NM	NM	NM	0	0	NM	NM	0	0
Middle Atlantic	255	764	-67.0%	94	365	145	374	4	8	13	16
New Jersey	18	84	-78.0%	NM	NM	18	84	NM	NM	NM	NM
New York	175	572	-69.0%	93	365	69	186	3	8	10	13
Pennsylvania	62	108	-43.0%	NM	NM	58	104	NM	NM	3	NM
East North Central	97	105	-7.6%	67	74	26	27	1	NM	3	3
Illinois	15	8	87.0%	4	NM	11	5	1	NM	NM	NM
Indiana	22	25	-12.0%	20	23	NM	NM	NM	NM	2	2
Michigan	23	16	38.0%	22	16	0	0	NM	NM	1	NM
Ohio	31	40	-23.0%	15	18	15	21	NM	NM	0	1
Wisconsin	NM	15	NM	NM	14	NM	NM	NM	NM	NM	NM
West North Central	41	61	-34.0%	35	57	NM	NM	NM	NM	NM	NM
Iowa	6	7	-9.8%	6	7	NM	NM	NM	NM	NM	NM
Kansas	8	15	-50.0%	8	15	0	0	0	0	0	0
Minnesota	8	7	15.0%	NM	3	NM	NM	NM	NM	NM	NM
Missouri	11	22	-49.0%	11	22	NM	NM	NM	NM	0	0
Nebraska	NM	4	NM	NM	4	0	0	0	0	0	0
North Dakota	NM	4	NM	NM	4	0	0	NM	NM	NM	NM
South Dakota	NM	NM	NM	NM	NM	NM	NM	NM	NM	0	0
South Atlantic	745	798	-6.7%	509	545	212	190	NM	30	22	33
Delaware	29	50	-43.0%	NM	NM	28	49	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	71	160	-56.0%	67	157	NM	NM	0	0	3	2
Georgia	72	95	-24.0%	22	34	33	35	NM	NM	16	26
Maryland	76	85	-11.0%	2	NM	73	53	NM	30	0	NM
North Carolina	114	152	-25.0%	63	138	50	13	NM	NM	NM	NM
South Carolina	55	68	-20.0%	51	59	NM	7	NM	NM	2	2
Virginia	311	168	86.0%	285	136	25	31	NM	NM	NM	1
West Virginia	17	19	-10.0%	17	18	0	1	0	0	0	0
East South Central	74	71	4.6%	59	59	11	7	NM	NM	4	4
Alabama	24	31	-23.0%	9	20	10	7	0	0	4	4
Kentucky	16	17	-5.4%	16	17	0	0	0	0	0	0
Mississippi	8	3	162.0%	8	3	0	0	0	0	0	0
Tennessee	26	19	31.0%	25	19	NM	NM	NM	NM	NM	NM
West South Central	31	48	-36.0%	25	26	5	21	NM	NM	NM	NM
Arkansas	12	11	7.6%	10	5	1	5	0	0	0	0
Louisiana	5	22	-79.0%	3	14	2	8	0	0	0	0
Oklahoma	4	NM	NM	4	NM	0	0	NM	NM	NM	NM
Texas	11	15	-31.0%	8	7	2	8	NM	NM	NM	NM
Mountain	34	42	-17.0%	30	39	4	NM	NM	NM	NM	0
Arizona	5	11	-58.0%	5	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	NM	NM	NM	NM	3	1	0	0	0	0
Nevada	2	4	-41.0%	2	3	1	0	0	0	0	0
New Mexico	13	12	12.0%	13	12	0	0	0	0	NM	NM
Utah	NM	NM	NM	2	NM	NM	NM	0	0	NM	NM
Wyoming	6	7	-8.4%	6	6	0	0	0	0	0	0
Pacific Contiguous	10	14	-26.0%	6	6	NM	NM	NM	NM	1	2
California	NM	11	NM	5	5	NM	NM	NM	NM	NM	NM
Oregon	NM	NM	NM	0	0	0	0	NM	NM	0	0
Washington	2	3	-36.0%	NM	NM	0	NM	NM	NM	1	2
Pacific Noncontiguous	983	1,017	-3.3%	870	908	94	85	1	NM	NM	23
Alaska	130	131	-0.4%	120	121	0	0	NM	NM	10	9
Hawaii	854	886	-3.7%	750	787	94	85	1	1	NM	14
U.S. Total	2,380	3,356	-29.0%	1,713	2,097	592	1,120	11	55	64	85

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 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	4	NM	0	0	0	0	0	0	NM	4
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	4	NM	0	0	0	0	0	0	NM	4
East North Central	64	118	-45.0%	58	72	1	41	0	0	5	5
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	57	41	41.0%	57	41	0	0	0	0	0	0
Michigan	5	34	-87.0%	0	29	1	2	0	0	NM	3
Ohio	0	39	-99.0%	0	0	0	39	0	0	0	0
Wisconsin	2	3	-30.0%	1	2	0	0	0	0	2	2
West North Central	NM	3	NM	0	0	0	0	0	0	NM	3
Iowa	NM	3	NM	0	0	0	0	0	0	NM	3
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	73	49	50.0%	71	46	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	71	46	55.0%	71	46	0	0	0	0	0	0
Georgia	2	3	-29.0%	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	21	41	-50.0%	21	41	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	21	41	-50.0%	21	41	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	165	169	-2.7%	152	154	0	0	0	0	12	15
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	159	158	0.3%	152	154	0	0	0	0	NM	4
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	6	11	-47.0%	0	0	0	0	0	0	6	11
Mountain	15	16	-1.2%	0	0	15	16	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	15	16	-1.2%	0	0	15	16	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	346	400	-13.0%	302	312	17	57	0	0	27	30

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
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 2.10.B. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, Year-to-Date through January 2016 and January 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 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	NM	4	NM	0	0	0	0	0	0	NM	4
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	4	NM	0	0	0	0	0	0	NM	4
East North Central	64	118	-45.0%	58	72	1	41	0	0	5	5
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	57	41	41.0%	57	41	0	0	0	0	0	0
Michigan	5	34	-87.0%	0	29	1	2	0	0	NM	3
Ohio	0	39	-99.0%	0	0	0	39	0	0	0	0
Wisconsin	2	3	-30.0%	1	2	0	0	0	0	2	2
West North Central	NM	3	NM	0	0	0	0	0	0	NM	3
Iowa	NM	3	NM	0	0	0	0	0	0	NM	3
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	73	49	50.0%	71	46	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	71	46	55.0%	71	46	0	0	0	0	0	0
Georgia	2	3	-29.0%	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	21	41	-50.0%	21	41	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	21	41	-50.0%	21	41	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	165	169	-2.7%	152	154	0	0	0	0	12	15
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	159	158	0.3%	152	154	0	0	0	0	NM	4
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	6	11	-47.0%	0	0	0	0	0	0	6	11
Mountain	15	16	-1.2%	0	0	15	16	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	15	16	-1.2%	0	0	15	16	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	NM	NM	0	0	0	NM	0	0	0	0
California	0	NM	NM	0	0	0	NM	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	346	400	-13.0%	302	312	17	57	0	0	27	30

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	28,599	27,022	5.8%	NM	63	27,072	25,478	703	776	805	705
Connecticut	11,248	11,417	-1.5%	0	0	10,428	10,685	368	329	452	402
Maine	2,705	2,100	29.0%	0	0	2,429	1,871	NM	NM	247	206
Massachusetts	9,937	7,658	30.0%	NM	58	9,577	7,144	248	371	NM	NM
New Hampshire	2,224	3,647	-39.0%	0	1	2,196	3,622	NM	NM	NM	NM
Rhode Island	2,485	2,195	13.0%	0	0	2,443	2,157	NM	NM	0	0
Vermont	0	5	-96.0%	0	5	0	0	0	0	0	0
Middle Atlantic	93,303	86,050	8.4%	8,755	10,042	82,463	74,143	975	904	1,109	962
New Jersey	23,259	18,980	23.0%	NM	NM	22,722	18,502	NM	NM	329	290
New York	34,262	34,486	-0.6%	8,683	9,978	24,724	23,720	705	659	149	129
Pennsylvania	35,781	32,585	9.8%	NM	NM	35,017	31,921	NM	NM	631	542
East North Central	68,666	58,188	18.0%	29,114	24,531	36,345	30,812	1,433	1,371	1,775	1,474
Illinois	8,886	6,667	33.0%	NM	122	7,645	5,483	760	823	268	238
Indiana	12,885	10,653	21.0%	10,089	8,255	2,335	1,992	86	62	375	345
Michigan	17,109	13,809	24.0%	3,953	3,440	11,797	9,281	398	322	960	766
Ohio	19,823	19,410	2.1%	5,388	5,445	14,305	13,827	NM	NM	NM	NM
Wisconsin	9,963	7,649	30.0%	9,469	7,268	262	229	88	70	144	82
West North Central	11,671	8,074	45.0%	9,848	7,385	1,282	303	304	223	237	164
Iowa	1,832	1,462	25.0%	1,700	1,354	0	0	NM	NM	NM	NM
Kansas	794	528	50.0%	724	483	0	0	0	0	NM	46
Minnesota	5,594	2,536	121.0%	4,732	2,190	596	NM	NM	175	NM	42
Missouri	2,447	2,639	-7.3%	1,719	2,462	686	173	38	1	NM	NM
Nebraska	NM	186	NM	97	185	0	0	NM	NM	NM	NM
North Dakota	354	206	72.0%	340	NM	0	0	0	0	NM	NM
South Dakota	535	516	3.7%	535	516	0	0	0	0	0	0
South Atlantic	177,270	163,961	8.1%	147,109	137,105	27,325	24,044	585	516	2,251	2,295
Delaware	3,004	4,060	-26.0%	NM	NM	2,103	3,014	0	0	872	1,023
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	87,393	81,642	7.0%	82,037	77,696	4,548	3,168	NM	NM	794	767
Georgia	28,834	29,529	-2.4%	20,395	20,297	8,148	8,951	0	0	291	281
Maryland	1,660	1,456	14.0%	0	0	1,135	994	489	439	36	NM
North Carolina	23,350	22,057	5.9%	20,998	19,905	2,285	2,089	4	0	63	63
South Carolina	9,484	7,149	33.0%	8,742	6,452	700	680	NM	0	38	18
Virginia	23,261	17,750	31.0%	14,850	12,653	8,259	4,973	NM	NM	147	119
West Virginia	216	258	-16.0%	59	81	147	176	0	0	10	NM
East South Central	77,803	70,363	11.0%	48,425	40,559	28,067	28,429	NM	NM	1,194	1,269
Alabama	34,536	36,285	-4.8%	11,347	10,704	22,451	24,729	0	0	737	852
Kentucky	5,678	2,429	134.0%	5,186	2,106	320	176	0	0	172	147
Mississippi	31,049	26,753	16.0%	25,548	23,024	5,290	3,519	NM	NM	203	200
Tennessee	6,540	4,896	34.0%	6,343	4,725	NM	NM	NM	NM	83	69
West South Central	208,230	209,407	-0.6%	66,300	57,101	102,532	109,490	616	642	38,782	42,174
Arkansas	8,120	9,400	-14.0%	4,736	1,721	3,184	7,474	NM	NM	197	202
Louisiana	45,469	40,125	13.0%	22,815	20,415	4,556	1,028	NM	NM	17,938	18,511
Oklahoma	21,827	20,732	5.3%	15,109	14,293	6,636	6,369	0	0	NM	70
Texas	132,814	139,150	-4.6%	23,638	20,672	88,156	94,618	454	470	20,565	23,390
Mountain	56,830	44,732	27.0%	43,046	31,750	12,478	11,807	333	324	973	851
Arizona	15,384	11,469	34.0%	9,932	5,571	5,343	5,790	109	NM	0	0
Colorado	7,806	6,329	23.0%	6,165	4,764	1,624	1,545	0	0	NM	NM
Idaho	2,912	2,258	29.0%	1,502	1,428	1,317	791	0	0	94	39
Montana	816	557	47.0%	759	518	NM	NM	0	0	0	0
Nevada	17,628	12,799	38.0%	16,239	11,457	1,167	1,138	NM	NM	168	NM
New Mexico	6,781	6,572	3.2%	4,039	4,215	2,615	2,240	NM	NM	NM	NM
Utah	5,108	4,409	16.0%	4,383	3,769	NM	NM	NM	NM	306	310
Wyoming	395	340	16.0%	NM	NM	NM	NM	0	0	356	305
Pacific Contiguous	83,654	77,101	8.5%	33,976	30,979	42,511	39,820	1,218	1,170	5,949	5,132
California	63,951	64,431	-0.7%	22,139	23,298	34,895	34,991	1,114	1,087	5,802	5,055
Oregon	10,456	8,139	28.0%	3,864	3,538	6,410	4,491	NM	NM	85	33
Washington	9,247	4,531	104.0%	7,972	4,143	1,206	338	NM	NM	62	44
Pacific Noncontiguous	2,392	3,039	-21.0%	2,283	2,945	0	0	NM	NM	NM	NM
Alaska	2,392	3,039	-21.0%	2,283	2,945	0	0	NM	NM	NM	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	808,418	747,937	8.1%	388,873	342,461	360,075	344,326	6,291	6,033	53,178	55,117

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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.
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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 January 2016 and January 2015 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	28,599	27,022	5.8%	NM	63	27,072	25,478	703	776	805	705
Connecticut	11,248	11,417	-1.5%	0	0	10,428	10,685	368	329	452	402
Maine	2,705	2,100	29.0%	0	0	2,429	1,871	NM	NM	247	206
Massachusetts	9,937	7,658	30.0%	NM	58	9,577	7,144	248	371	NM	NM
New Hampshire	2,224	3,647	-39.0%	0	1	2,196	3,622	NM	NM	NM	NM
Rhode Island	2,485	2,195	13.0%	0	0	2,443	2,157	NM	NM	0	0
Vermont	0	5	-96.0%	0	5	0	0	0	0	0	0
Middle Atlantic	93,303	86,050	8.4%	8,755	10,042	82,463	74,143	975	904	1,109	962
New Jersey	23,259	18,980	23.0%	NM	NM	22,722	18,502	NM	NM	329	290
New York	34,262	34,486	-0.6%	8,683	9,978	24,724	23,720	705	659	149	129
Pennsylvania	35,781	32,585	9.8%	NM	NM	35,017	31,921	NM	NM	631	542
East North Central	68,666	58,188	18.0%	29,114	24,531	36,345	30,812	1,433	1,371	1,775	1,474
Illinois	8,886	6,667	33.0%	NM	122	7,645	5,483	760	823	268	238
Indiana	12,885	10,653	21.0%	10,089	8,255	2,335	1,992	86	62	375	345
Michigan	17,109	13,809	24.0%	3,953	3,440	11,797	9,281	398	322	960	766
Ohio	19,823	19,410	2.1%	5,388	5,445	14,305	13,827	NM	NM	NM	NM
Wisconsin	9,963	7,649	30.0%	9,469	7,268	262	229	88	70	144	82
West North Central	11,671	8,074	45.0%	9,848	7,385	1,282	303	304	223	237	164
Iowa	1,832	1,462	25.0%	1,700	1,354	0	0	NM	NM	NM	NM
Kansas	794	528	50.0%	724	483	0	0	0	0	NM	46
Minnesota	5,594	2,536	121.0%	4,732	2,190	596	NM	NM	175	NM	42
Missouri	2,447	2,639	-7.3%	1,719	2,462	686	173	38	1	NM	NM
Nebraska	NM	186	NM	97	185	0	0	NM	NM	NM	NM
North Dakota	354	206	72.0%	340	NM	0	0	0	0	NM	NM
South Dakota	535	516	3.7%	535	516	0	0	0	0	0	0
South Atlantic	177,270	163,961	8.1%	147,109	137,105	27,325	24,044	585	516	2,251	2,295
Delaware	3,004	4,060	-26.0%	NM	NM	2,103	3,014	0	0	872	1,023
District of Columbia	NM	NM	NM	0	0	0	0	NM	NM	0	0
Florida	87,393	81,642	7.0%	82,037	77,696	4,548	3,168	NM	NM	794	767
Georgia	28,834	29,529	-2.4%	20,395	20,297	8,148	8,951	0	0	291	281
Maryland	1,660	1,456	14.0%	0	0	1,135	994	489	439	36	NM
North Carolina	23,350	22,057	5.9%	20,998	19,905	2,285	2,089	4	0	63	63
South Carolina	9,484	7,149	33.0%	8,742	6,452	700	680	NM	0	38	18
Virginia	23,261	17,750	31.0%	14,850	12,653	8,259	4,973	NM	NM	147	119
West Virginia	216	258	-16.0%	59	81	147	176	0	0	10	NM
East South Central	77,803	70,363	11.0%	48,425	40,559	28,067	28,429	NM	NM	1,194	1,269
Alabama	34,536	36,285	-4.8%	11,347	10,704	22,451	24,729	0	0	737	852
Kentucky	5,678	2,429	134.0%	5,186	2,106	320	176	0	0	172	147
Mississippi	31,049	26,753	16.0%	25,548	23,024	5,290	3,519	NM	NM	203	200
Tennessee	6,540	4,896	34.0%	6,343	4,725	NM	NM	NM	NM	83	69
West South Central	208,230	209,407	-0.6%	66,300	57,101	102,532	109,490	616	642	38,782	42,174
Arkansas	8,120	9,400	-14.0%	4,736	1,721	3,184	7,474	NM	NM	197	202
Louisiana	45,469	40,125	13.0%	22,815	20,415	4,556	1,028	NM	NM	17,938	18,511
Oklahoma	21,827	20,732	5.3%	15,109	14,293	6,636	6,369	0	0	NM	70
Texas	132,814	139,150	-4.6%	23,638	20,672	88,156	94,618	454	470	20,565	23,390
Mountain	56,830	44,732	27.0%	43,046	31,750	12,478	11,807	333	324	973	851
Arizona	15,384	11,469	34.0%	9,932	5,571	5,343	5,790	109	NM	0	0
Colorado	7,806	6,329	23.0%	6,165	4,764	1,624	1,545	0	0	NM	NM
Idaho	2,912	2,258	29.0%	1,502	1,428	1,317	791	0	0	94	39
Montana	816	557	47.0%	759	518	NM	NM	0	0	0	0
Nevada	17,628	12,799	38.0%	16,239	11,457	1,167	1,138	NM	NM	168	NM
New Mexico	6,781	6,572	3.2%	4,039	4,215	2,615	2,240	NM	NM	NM	NM
Utah	5,108	4,409	16.0%	4,383	3,769	NM	NM	NM	NM	306	310
Wyoming	395	340	16.0%	NM	NM	NM	NM	0	0	356	305
Pacific Contiguous	83,654	77,101	8.5%	33,976	30,979	42,511	39,820	1,218	1,170	5,949	5,132
California	63,951	64,431	-0.7%	22,139	23,298	34,895	34,991	1,114	1,087	5,802	5,055
Oregon	10,456	8,139	28.0%	3,864	3,538	6,410	4,491	NM	NM	85	33
Washington	9,247	4,531	104.0%	7,972	4,143	1,206	338	NM	NM	62	44
Pacific Noncontiguous	2,392	3,039	-21.0%	2,283	2,945	0	0	NM	NM	NM	NM
Alaska	2,392	3,039	-21.0%	2,283	2,945	0	0	NM	NM	NM	NM
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	808,418	747,937	8.1%	388,873	342,461	360,075	344,326	6,291	6,033	53,178	55,117

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	1,170	1,186	-1.3%	0	0	1,095	1,102	NM	NM	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	NM	88	NM	0	0	NM	88	0	0	0	0
Massachusetts	430	421	2.0%	0	0	430	421	0	0	0	0
New Hampshire	183	191	-4.2%	0	0	108	106	NM	NM	0	0
Rhode Island	365	385	-5.1%	0	0	365	385	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	5,600	5,564	0.7%	0	0	5,400	5,343	NM	NM	NM	134
New Jersey	1,025	1,039	-1.4%	0	0	976	983	NM	NM	0	0
New York	1,821	1,784	2.0%	0	0	1,821	1,784	0	0	0	0
Pennsylvania	2,754	2,740	0.5%	0	0	2,604	2,576	NM	NM	NM	134
East North Central	6,917	6,943	-0.4%	786	774	6,022	6,060	NM	NM	NM	NM
Illinois	1,518	1,630	-6.9%	0	0	1,518	1,630	0	0	0	0
Indiana	793	779	1.9%	754	740	NM	NM	0	0	NM	NM
Michigan	2,184	2,138	2.2%	0	0	2,184	2,138	0	0	0	0
Ohio	1,129	1,110	1.7%	NM	NM	1,114	1,094	0	0	0	0
Wisconsin	1,293	1,287	0.5%	NM	NM	1,189	1,181	NM	NM	NM	NM
West North Central	1,126	1,094	3.0%	342	326	784	768	0	0	0	0
Iowa	272	266	2.2%	0	0	272	266	0	0	0	0
Kansas	160	157	2.2%	0	0	160	157	0	0	0	0
Minnesota	388	383	1.4%	NM	88	301	295	0	0	0	0
Missouri	158	159	-0.8%	NM	109	NM	NM	0	0	0	0
Nebraska	148	129	15.0%	148	129	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	4,794	4,958	-3.3%	432	530	3,790	3,712	291	392	281	323
Delaware	173	175	-0.9%	0	0	142	139	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	613	692	-11.0%	80	182	533	510	0	0	0	0
Georgia	392	460	-15.0%	0	0	325	319	0	NM	NM	NM
Maryland	278	288	-3.8%	0	0	196	194	NM	NM	0	0
North Carolina	1,220	1,218	0.1%	0	0	1,041	1,020	NM	NM	0	0
South Carolina	565	589	-4.1%	343	340	NM	NM	0	0	NM	211
Virginia	1,542	1,524	1.2%	NM	NM	1,503	1,480	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	554	544	1.9%	226	222	328	322	0	0	0	0
Alabama	NM	99	NM	0	0	NM	99	0	0	0	0
Kentucky	239	235	1.8%	226	222	NM	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	188	184	1.9%	0	0	188	184	0	0	0	0
West South Central	1,702	1,669	2.0%	0	0	1,646	1,614	NM	NM	0	0
Arkansas	172	168	2.5%	0	0	172	168	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	NM	NM	0	0	NM	NM	0	0	0	0
Texas	1,489	1,461	1.9%	0	0	1,433	1,405	NM	NM	0	0
Mountain	546	535	2.0%	NM	89	456	446	0	0	0	0
Arizona	163	160	1.9%	NM	67	NM	92	0	0	0	0
Colorado	113	111	2.3%	0	0	113	111	0	0	0	0
Idaho	NM	62	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	152	148	2.4%	0	0	152	148	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	6,030	6,292	-4.2%	804	802	3,438	3,419	1,788	2,071	0	0
California	4,871	5,150	-5.4%	276	287	2,862	2,856	1,732	2,007	0	0
Oregon	640	636	0.7%	140	137	444	434	NM	NM	0	0
Washington	519	507	2.3%	388	378	131	129	0	0	0	0
Pacific Noncontiguous	NM	NM	NM	0	0	0	0	NM	NM	0	0
Alaska	NM	NM	NM	0	0	0	0	NM	NM	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	28,588	28,955	-1.3%	2,679	2,743	22,961	22,785	2,479	2,902	469	525

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	1,170	1,186	-1.3%	0	0	1,095	1,102	NM	NM	0	0
Connecticut	NM	NM	NM	0	0	NM	NM	0	0	0	0
Maine	NM	88	NM	0	0	NM	88	0	0	0	0
Massachusetts	430	421	2.0%	0	0	430	421	0	0	0	0
New Hampshire	183	191	-4.2%	0	0	108	106	NM	NM	0	0
Rhode Island	365	385	-5.1%	0	0	365	385	0	0	0	0
Vermont	NM	NM	NM	0	0	NM	NM	0	0	0	0
Middle Atlantic	5,600	5,564	0.7%	0	0	5,400	5,343	NM	NM	NM	134
New Jersey	1,025	1,039	-1.4%	0	0	976	983	NM	NM	0	0
New York	1,821	1,784	2.0%	0	0	1,821	1,784	0	0	0	0
Pennsylvania	2,754	2,740	0.5%	0	0	2,604	2,576	NM	NM	NM	134
East North Central	6,917	6,943	-0.4%	786	774	6,022	6,060	NM	NM	NM	NM
Illinois	1,518	1,630	-6.9%	0	0	1,518	1,630	0	0	0	0
Indiana	793	779	1.9%	754	740	NM	NM	0	0	NM	NM
Michigan	2,184	2,138	2.2%	0	0	2,184	2,138	0	0	0	0
Ohio	1,129	1,110	1.7%	NM	NM	1,114	1,094	0	0	0	0
Wisconsin	1,293	1,287	0.5%	NM	NM	1,189	1,181	NM	NM	NM	NM
West North Central	1,126	1,094	3.0%	342	326	784	768	0	0	0	0
Iowa	272	266	2.2%	0	0	272	266	0	0	0	0
Kansas	160	157	2.2%	0	0	160	157	0	0	0	0
Minnesota	388	383	1.4%	NM	88	301	295	0	0	0	0
Missouri	158	159	-0.8%	NM	109	NM	NM	0	0	0	0
Nebraska	148	129	15.0%	148	129	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	4,794	4,958	-3.3%	432	530	3,790	3,712	291	392	281	323
Delaware	173	175	-0.9%	0	0	142	139	0	0	NM	NM
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	613	692	-11.0%	80	182	533	510	0	0	0	0
Georgia	392	460	-15.0%	0	0	325	319	0	NM	NM	NM
Maryland	278	288	-3.8%	0	0	196	194	NM	NM	0	0
North Carolina	1,220	1,218	0.1%	0	0	1,041	1,020	NM	NM	0	0
South Carolina	565	589	-4.1%	343	340	NM	NM	0	0	NM	211
Virginia	1,542	1,524	1.2%	NM	NM	1,503	1,480	NM	NM	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	554	544	1.9%	226	222	328	322	0	0	0	0
Alabama	NM	99	NM	0	0	NM	99	0	0	0	0
Kentucky	239	235	1.8%	226	222	NM	NM	0	0	0	0
Mississippi	NM	NM	NM	0	0	NM	NM	0	0	0	0
Tennessee	188	184	1.9%	0	0	188	184	0	0	0	0
West South Central	1,702	1,669	2.0%	0	0	1,646	1,614	NM	NM	0	0
Arkansas	172	168	2.5%	0	0	172	168	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	NM	NM	0	0	NM	NM	0	0	0	0
Texas	1,489	1,461	1.9%	0	0	1,433	1,405	NM	NM	0	0
Mountain	546	535	2.0%	NM	89	456	446	0	0	0	0
Arizona	163	160	1.9%	NM	67	NM	92	0	0	0	0
Colorado	113	111	2.3%	0	0	113	111	0	0	0	0
Idaho	NM	62	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	152	148	2.4%	0	0	152	148	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	6,030	6,292	-4.2%	804	802	3,438	3,419	1,788	2,071	0	0
California	4,871	5,150	-5.4%	276	287	2,862	2,856	1,732	2,007	0	0
Oregon	640	636	0.7%	140	137	444	434	NM	NM	0	0
Washington	519	507	2.3%	388	378	131	129	0	0	0	0
Pacific Noncontiguous	NM	NM	NM	0	0	0	0	NM	NM	0	0
Alaska	NM	NM	NM	0	0	0	0	NM	NM	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	28,588	28,955	-1.3%	2,679	2,743	22,961	22,785	2,479	2,902	469	525

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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 Gas for Electricity Generation by State, by Sector, January 2016 and January 2015 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	305	306	-0.1%	0	0	291	283	14	22	0	0
Connecticut	109	108	0.7%	0	0	109	102	0	NM	0	0
Maine	22	24	-8.7%	0	0	8	8	14	16	0	0
Massachusetts	165	165	0.4%	0	0	165	165	0	0	0	0
New Hampshire	9	9	2.1%	0	0	9	9	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	420	421	-0.3%	0	0	333	331	87	90	0	0
New Jersey	111	106	4.7%	0	0	82	76	29	30	0	0
New York	150	157	-4.3%	0	0	115	116	35	40	0	0
Pennsylvania	159	159	0.4%	0	0	136	139	23	20	0	0
East North Central	19	19	-0.2%	3	3	0	0	16	16	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	-8.7%	0	0	0	0	1	1	0	0
Michigan	16	16	1.0%	0	0	0	0	16	16	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	-4.4%	3	3	0	0	0	0	0	0
West North Central	49	45	8.4%	31	28	16	16	NM	NM	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	49	45	8.4%	31	28	16	16	NM	NM	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	461	417	11.0%	61	0	373	385	28	32	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	324	270	20.0%	61	0	263	270	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	62	60	2.4%	0	0	62	60	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	76	87	-13.0%	0	0	48	55	28	32	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1	1	22.0%	0	0	0	0	0	0	1	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	1	22.0%	0	0	0	0	0	0	1	1
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	NM	NM	NM	0	0	NM	NM	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	NM	NM	0	0	NM	NM	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	45	53	-15.0%	0	0	45	53	0	0	0	0
California	25	34	-24.0%	0	0	25	34	0	0	0	0
Oregon	8	7	2.0%	0	0	8	7	0	0	0	0
Washington	12	12	1.7%	0	0	12	12	0	0	0	0
Pacific Noncontiguous	32	31	3.3%	0	0	0	0	32	31	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	32	31	3.3%	0	0	0	0	32	31	0	0
U.S. Total	1,333	1,293	3.1%	95	31	1,058	1,068	179	194	1	1

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	305	306	-0.1%	0	0	291	283	14	22	0	0
Connecticut	109	108	0.7%	0	0	109	102	0	NM	0	0
Maine	22	24	-8.7%	0	0	8	8	14	16	0	0
Massachusetts	165	165	0.4%	0	0	165	165	0	0	0	0
New Hampshire	9	9	2.1%	0	0	9	9	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	420	421	-0.3%	0	0	333	331	87	90	0	0
New Jersey	111	106	4.7%	0	0	82	76	29	30	0	0
New York	150	157	-4.3%	0	0	115	116	35	40	0	0
Pennsylvania	159	159	0.4%	0	0	136	139	23	20	0	0
East North Central	19	19	-0.2%	3	3	0	0	16	16	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	-8.7%	0	0	0	0	1	1	0	0
Michigan	16	16	1.0%	0	0	0	0	16	16	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	-4.4%	3	3	0	0	0	0	0	0
West North Central	49	45	8.4%	31	28	16	16	NM	NM	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	49	45	8.4%	31	28	16	16	NM	NM	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	461	417	11.0%	61	0	373	385	28	32	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	324	270	20.0%	61	0	263	270	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	62	60	2.4%	0	0	62	60	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	76	87	-13.0%	0	0	48	55	28	32	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1	1	22.0%	0	0	0	0	0	0	1	1
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	1	22.0%	0	0	0	0	0	0	1	1
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	NM	NM	NM	0	0	NM	NM	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	NM	NM	0	0	NM	NM	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	45	53	-15.0%	0	0	45	53	0	0	0	0
California	25	34	-24.0%	0	0	25	34	0	0	0	0
Oregon	8	7	2.0%	0	0	8	7	0	0	0	0
Washington	12	12	1.7%	0	0	12	12	0	0	0	0
Pacific Noncontiguous	32	31	3.3%	0	0	0	0	32	31	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	32	31	3.3%	0	0	0	0	32	31	0	0
U.S. Total	1,333	1,293	3.1%	95	31	1,058	1,068	179	194	1	1

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	6,074	5,834	4.1%	996	884	4,410	4,100	NM	NM	661	819
Connecticut	398	226	76.0%	0	0	398	220	0	NM	0	0
Maine	2,628	3,024	-13.0%	0	0	1,962	2,199	NM	NM	661	819
Massachusetts	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Hampshire	2,238	1,847	21.0%	519	509	1,719	1,338	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	636	557	14.0%	477	375	NM	NM	NM	NM	0	0
Middle Atlantic	1,301	1,169	11.0%	0	0	755	653	0	0	546	516
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	868	771	13.0%	0	0	751	649	0	0	118	122
Pennsylvania	433	398	8.7%	0	0	NM	NM	0	0	429	394
East North Central	2,844	3,037	-6.4%	545	389	1,332	1,489	NM	NM	966	1,157
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,513	1,774	-15.0%	NM	NM	937	1,074	0	2	576	699
Ohio	196	264	-26.0%	0	0	NM	58	0	0	141	206
Wisconsin	1,134	998	14.0%	545	389	NM	NM	NM	NM	249	252
West North Central	937	1,011	-7.3%	190	197	539	565	39	30	169	220
Iowa	NM	NM	NM	0	0	0	0	NM	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	898	982	-8.5%	190	197	539	565	0	0	169	220
Missouri	39	29	34.0%	0	0	0	0	39	29	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	11,502	12,191	-5.7%	2,055	2,035	2,762	3,286	NM	20	6,667	6,851
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	1,419	2,138	-34.0%	0	0	705	1,367	0	0	714	772
Georgia	3,969	3,762	5.5%	0	0	676	538	0	0	3,293	3,224
Maryland	58	95	-39.0%	0	0	0	0	NM	20	39	75
North Carolina	1,165	1,374	-15.0%	0	0	675	714	0	0	490	661
South Carolina	2,152	2,254	-4.5%	311	360	403	420	0	0	1,439	1,475
Virginia	2,739	2,567	6.7%	1,744	1,675	303	248	0	0	691	644
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,267	3,396	-3.8%	NM	NM	169	205	0	0	3,093	3,189
Alabama	1,951	2,097	-7.0%	NM	NM	169	205	0	0	1,778	1,890
Kentucky	169	172	-1.5%	0	0	0	0	0	0	169	172
Mississippi	719	689	4.4%	0	0	0	0	0	0	719	688
Tennessee	428	438	-2.5%	0	0	0	0	0	0	428	438
West South Central	3,209	3,453	-7.1%	0	218	0	17	0	0	3,209	3,219
Arkansas	655	746	-12.0%	0	0	0	0	0	0	655	746
Louisiana	1,820	1,697	7.3%	0	0	0	0	0	0	1,820	1,697
Oklahoma	98	105	-7.1%	0	0	0	0	0	0	98	105
Texas	636	906	-30.0%	0	218	0	17	0	0	636	671
Mountain	862	881	-2.2%	0	0	449	433	0	0	413	449
Arizona	326	304	7.2%	0	0	326	304	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	0	0
Idaho	436	472	-7.6%	0	0	59	62	0	0	377	410
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	5,780	6,786	-15.0%	473	489	3,842	4,634	0	0	1,466	1,663
California	3,933	4,736	-17.0%	0	0	3,551	4,330	0	0	382	406
Oregon	580	827	-30.0%	0	0	NM	NM	0	0	289	523
Washington	1,268	1,223	3.6%	473	489	0	0	0	0	795	734
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	35,775	37,759	-5.3%	4,263	4,213	14,257	15,381	65	82	17,190	18,083

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	6,074	5,834	4.1%	996	884	4,410	4,100	NM	NM	661	819
Connecticut	398	226	76.0%	0	0	398	220	0	NM	0	0
Maine	2,628	3,024	-13.0%	0	0	1,962	2,199	NM	NM	661	819
Massachusetts	NM	NM	NM	0	0	NM	NM	0	0	0	0
New Hampshire	2,238	1,847	21.0%	519	509	1,719	1,338	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	636	557	14.0%	477	375	NM	NM	NM	NM	0	0
Middle Atlantic	1,301	1,169	11.0%	0	0	755	653	0	0	546	516
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	868	771	13.0%	0	0	751	649	0	0	118	122
Pennsylvania	433	398	8.7%	0	0	NM	NM	0	0	429	394
East North Central	2,844	3,037	-6.4%	545	389	1,332	1,489	NM	NM	966	1,157
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	1,513	1,774	-15.0%	NM	NM	937	1,074	0	2	576	699
Ohio	196	264	-26.0%	0	0	NM	58	0	0	141	206
Wisconsin	1,134	998	14.0%	545	389	NM	NM	NM	NM	249	252
West North Central	937	1,011	-7.3%	190	197	539	565	39	30	169	220
Iowa	NM	NM	NM	0	0	0	0	NM	NM	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	898	982	-8.5%	190	197	539	565	0	0	169	220
Missouri	39	29	34.0%	0	0	0	0	39	29	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	11,502	12,191	-5.7%	2,055	2,035	2,762	3,286	NM	20	6,667	6,851
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	1,419	2,138	-34.0%	0	0	705	1,367	0	0	714	772
Georgia	3,969	3,762	5.5%	0	0	676	538	0	0	3,293	3,224
Maryland	58	95	-39.0%	0	0	0	0	NM	20	39	75
North Carolina	1,165	1,374	-15.0%	0	0	675	714	0	0	490	661
South Carolina	2,152	2,254	-4.5%	311	360	403	420	0	0	1,439	1,475
Virginia	2,739	2,567	6.7%	1,744	1,675	303	248	0	0	691	644
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	3,267	3,396	-3.8%	NM	NM	169	205	0	0	3,093	3,189
Alabama	1,951	2,097	-7.0%	NM	NM	169	205	0	0	1,778	1,890
Kentucky	169	172	-1.5%	0	0	0	0	0	0	169	172
Mississippi	719	689	4.4%	0	0	0	0	0	0	719	688
Tennessee	428	438	-2.5%	0	0	0	0	0	0	428	438
West South Central	3,209	3,453	-7.1%	0	218	0	17	0	0	3,209	3,219
Arkansas	655	746	-12.0%	0	0	0	0	0	0	655	746
Louisiana	1,820	1,697	7.3%	0	0	0	0	0	0	1,820	1,697
Oklahoma	98	105	-7.1%	0	0	0	0	0	0	98	105
Texas	636	906	-30.0%	0	218	0	17	0	0	636	671
Mountain	862	881	-2.2%	0	0	449	433	0	0	413	449
Arizona	326	304	7.2%	0	0	326	304	0	0	0	0
Colorado	NM	NM	NM	0	0	NM	NM	0	0	0	0
Idaho	436	472	-7.6%	0	0	59	62	0	0	377	410
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	5,780	6,786	-15.0%	473	489	3,842	4,634	0	0	1,466	1,663
California	3,933	4,736	-17.0%	0	0	3,551	4,330	0	0	382	406
Oregon	580	827	-30.0%	0	0	NM	NM	0	0	289	523
Washington	1,268	1,223	3.6%	473	489	0	0	0	0	795	734
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	35,775	37,759	-5.3%	4,263	4,213	14,257	15,381	65	82	17,190	18,083

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 - January 2016

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

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, January 2016 and 2015

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	January 2016	January 2015	Percentage Change	January 2016	January 2015	Percentage Change	January 2016	January 2015	Percentage Change
New England	1,784	1,324	34.8%	4,751	4,648	2.2%	0	0	--
Connecticut	W	W	W	1,641	1,480	10.9%	0	0	--
Maine	0	0	--	W	W	W	0	0	--
Massachusetts	W	W	W	1,875	1,868	0.4%	0	0	--
New Hampshire	W	W	W	W	W	W	0	0	--
Rhode Island	0	0	--	W	W	W	0	0	--
Vermont	0	0	--	46	57	-18.7%	0	0	--
Middle Atlantic	7,211	7,538	-4.3%	5,668	5,708	-0.7%	W	W	W
New Jersey	935	988	-5.4%	725	766	-5.4%	0	0	--
New York	425	728	-41.7%	3,630	3,540	2.5%	0	0	--
Pennsylvania	5,852	5,822	0.5%	1,313	1,402	-6.3%	W	W	W
East North Central	41,997	34,273	22.5%	1,152	1,198	-3.9%	239	248	-3.6%
Illinois	10,903	8,240	32.3%	74	96	-22.2%	0	0	--
Indiana	11,233	9,483	18.5%	107	143	-24.8%	0	W	W
Michigan	6,478	6,451	0.4%	333	340	-2.3%	W	W	W
Ohio	8,572	6,434	33.2%	406	371	9.4%	W	W	W
Wisconsin	4,811	3,665	31.3%	232	249	-6.7%	W	W	W
West North Central	30,871	21,599	42.9%	1,627	1,792	-9.2%	0	0	--
Iowa	6,863	3,748	83.1%	151	178	-15.1%	0	0	--
Kansas	4,941	3,181	55.3%	677	668	1.4%	0	0	--
Minnesota	4,624	2,749	68.2%	131	155	-15.3%	0	0	--
Missouri	9,451	6,938	36.2%	404	434	-6.9%	0	0	--
Nebraska	W	2,983	W	179	239	-25.0%	0	0	--
North Dakota	1,657	W	W	35	42	-17.2%	0	0	--
South Dakota	W	W	W	49	76	-35.6%	0	0	--
South Atlantic	34,008	29,626	14.8%	11,682	12,200	-4.2%	W	W	W
Delaware	W	W	W	460	350	31.4%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	6,212	5,520	12.5%	5,271	5,794	-9.0%	W	W	W
Georgia	6,195	5,850	5.9%	849	924	-8.2%	0	0	--
Maryland	1,794	1,779	0.8%	860	835	2.9%	0	0	--
North Carolina	7,094	6,364	11.5%	1,207	1,232	-2.1%	0	0	--
South Carolina	5,973	4,182	42.8%	675	698	-3.3%	0	0	--
Virginia	1,856	1,506	23.3%	2,222	2,196	1.2%	0	0	--
West Virginia	W	W	W	139	171	-18.7%	W	W	W
East South Central	17,808	17,604	1.2%	2,011	1,992	0.9%	W	W	W
Alabama	4,328	4,444	-2.6%	396	260	52.6%	0	0	--
Kentucky	8,185	8,169	0.2%	252	255	-1.3%	W	W	W
Mississippi	1,576	1,650	-4.5%	577	586	-1.6%	0	0	--
Tennessee	3,719	3,341	11.3%	786	891	-11.8%	0	0	--
West South Central	34,163	24,722	38.2%	1,867	2,004	-6.8%	W	W	W
Arkansas	5,133	3,611	42.1%	W	W	W	0	0	--
Louisiana	3,904	3,387	15.3%	405	499	-18.8%	W	W	W
Oklahoma	5,606	3,495	60.4%	W	W	W	0	0	--
Texas	19,521	14,229	37.2%	1,190	1,227	-3.0%	0	0	--
Mountain	19,926	16,406	21.5%	373	448	-16.7%	W	W	W
Arizona	4,521	2,966	52.4%	134	147	-9.0%	0	0	--
Colorado	5,524	4,591	20.3%	109	135	-18.8%	0	0	--
Idaho	0	0	--	W	W	W	0	0	--
Montana	W	W	W	W	17	W	W	W	W
Nevada	1,130	1,179	-4.1%	W	W	W	0	0	--
New Mexico	W	W	W	29	55	-47.8%	0	0	--
Utah	3,692	2,802	31.8%	41	44	-5.8%	0	0	--
Wyoming	3,276	2,992	9.5%	35	37	-5.5%	0	0	--
Pacific Contiguous	W	W	W	340	347	-2.1%	0	0	--
California	0	0	--	160	162	-1.0%	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	2,284	2,305	-0.9%	0	0	--
Alaska	W	W	W	39	246	-84.2%	0	0	--
Hawaii	W	W	W	2,245	2,060	9.0%	0	0	--
U.S. Total	189,073	154,749	22.2%	31,755	32,644	-2.7%	1,321	892	48.1%

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.
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, January 2016 and 2015

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**January 2016**	**January 2015**	**Percentage Change**	**January 2016**	**January 2015**	**January 2016**	**January 2015**
Coal (Thousand Tons)							
New England	1,784	1,324	34.8%	W	W	W	W
Middle Atlantic	7,211	7,538	-4.3%	0	W	7,211	W
East North Central	41,997	34,273	22.5%	27,582	23,348	14,415	10,925
West North Central	30,871	21,599	42.9%	30,871	21,599	0	0
South Atlantic	34,008	29,626	14.8%	31,166	26,676	2,842	2,950
East South Central	17,808	17,604	1.2%	17,808	17,604	0	0
West South Central	34,163	24,722	38.2%	21,356	13,992	12,807	10,730
Mountain	19,926	16,406	21.5%	W	W	W	W
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	W	W	W	W	W	W
U.S. Total	**189,073**	**154,749**	**22.2%**	**149,028**	**119,838**	**40,045**	**34,911**
Petroleum Liquids (Thousand Barrels)							
New England	4,751	4,648	2.2%	660	886	4,091	3,762
Middle Atlantic	5,668	5,708	-0.7%	2,191	2,075	3,477	3,634
East North Central	1,152	1,198	-3.9%	857	W	295	W
West North Central	1,627	1,792	-9.2%	1,603	1,764	23	28
South Atlantic	11,682	12,200	-4.2%	9,341	10,049	2,340	2,152
East South Central	2,011	1,992	0.9%	W	W	W	W
West South Central	1,867	2,004	-6.8%	1,373	1,463	494	541
Mountain	373	448	-16.7%	W	W	W	W
Pacific Contiguous	340	347	-2.1%	236	W	104	W
Pacific Noncontiguous	2,284	2,305	-0.9%	W	W	W	W
U.S. Total	**31,755**	**32,644**	**-2.7%**	**20,673**	**22,006**	**11,082**	**10,638**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	W	W	W	0	0	W	W
East North Central	239	248	-3.6%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	W	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	**1,321**	**892**	**48.1%**	**W**	**W**	**W**	**W**

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 - January 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

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 - January 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
Year to Date												
2014	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
2015	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
2016	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
Rolling 12 Months Ending in January												
2015	16,672,892	857,650	2.37	45.99	1.32	99.8	158,414	26,142	18.95	114.92	0.47	95.1
2016	14,499,749	750,819	2.21	42.70	1.30	100.2	144,494	23,829	W	W	0.50	75.5

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

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

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

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

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2006 - January 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
Year to Date												
2014	10,073	357	1.82	51.28	5.26	66.1	708,775	691,024	7.02	7.20	88.4	4.07
2015	13,724	484	2.03	57.48	5.23	89.7	758,731	735,038	4.10	4.23	88.9	2.93
2016	9,639	341	1.38	38.93	5.68	79.5	821,121	793,369	3.01	3.11	89.0	2.52
Rolling 12 Months Ending in January												
2015	150,962	5,321	W	W	5.55	93.5	8,729,242	8,475,438	4.74	4.89	89.6	W
2016	131,563	4,636	W	W	5.29	86.8	10,241,096	9,901,501	3.14	3.25	89.7	W

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

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

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

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

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2006 - January 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
Year to Date												
2014	939,850	48,843	2.30	44.18	1.13	79.8	12,001	2,011	21.72	129.64	0.32	44.6
2015	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
2016	757,172	39,300	2.17	41.78	1.19	85.1	6,397	1,058	7.86	47.57	0.44	61.6
Rolling 12 Months Ending in January												
2015	12,161,917	619,324	2.39	46.98	1.22	100.6	95,183	15,603	18.92	115.44	0.46	90.1
2016	10,939,943	562,916	2.24	43.51	1.19	103.4	87,475	14,329	11.00	67.16	0.45	76.4

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

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

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

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2006 - January 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
Year to Date												
2014	8,753	309	1.79	50.66	5.22	88.7	322,118	314,783	6.23	6.37	96.8	3.45
2015	11,509	404	1.94	55.36	5.21	129.1	339,941	329,825	4.25	4.38	96.1	2.83
2016	7,935	278	1.15	32.96	5.67	91.8	389,788	376,962	3.28	3.39	96.7	2.56
Rolling 12 Months Ending in January												
2015	126,550	4,443	1.90	54.13	5.55	130.4	3,894,373	3,787,638	5.00	5.14	96.7	3.11
2016	112,077	3,933	1.71	48.71	5.26	126.1	4,712,197	4,558,063	3.45	3.57	95.2	2.64

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W = Withheld to avoid disclosure of individual company data.

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

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

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

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2006 - January 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
Year to Date												
2014	356,260	19,360	2.25	41.46	1.56	86.8	14,823	2,481	22.05	132.09	0.46	43.7
2015	343,021	18,177	2.21	41.66	1.54	92.8	4,217	703	15.12	90.54	0.49	57.2
2016	248,356	13,412	1.94	35.88	1.71	84.5	2,394	419	7.90	45.22	0.42	61.6
Rolling 12 Months Ending in January												
2015	4,230,710	225,417	2.25	42.22	1.61	100.8	61,168	10,202	W	W	0.45	137.7
2016	3,373,397	179,675	2.09	39.16	1.65	96.5	52,680	8,790	11.23	67.53	0.46	88.0

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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.

- 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.
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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 - January 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
Year to Date												
2014	922	33	2.21	63.69	5.35	52.4	320,157	311,751	8.58	8.81	92.3	W
2015	1,427	52	2.43	67.25	5.10	77.4	357,604	346,044	4.05	4.18	93.3	W
2016	1,304	49	2.50	66.55	5.70	184.5	368,054	355,169	2.77	2.87	91.9	W
Rolling 12 Months Ending in January												
2015	14,286	506	W	W	5.31	73.2	4,091,987	3,968,964	4.50	4.64	92.7	W
2016	14,428	521	W	W	5.32	70.3	4,787,713	4,626,282	2.84	2.93	93.6	W

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

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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 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2006 - January 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
Year to Date												
2014	400	18	W	W	3.06	13.3	0	0	--	--	--	0.0
2015	309	14	W	W	2.65	14.5	0	0	--	--	--	0.0
2016	139	6	W	W	2.87	7.8	0	0	--	--	--	0.0
Rolling 12 Months Ending in January												
2015	4,005	178	W	W	2.44	17.3	0	0	--	--	--	0.0
2016	2,269	101	W	W	2.54	12.0	0	0	--	--	--	0.0

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

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- See the Technical Notes for fuel conversion factors.
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Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2006 - January 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
Year to Date												
2014	0	0	--	--	--	0.0	423	418	W	W	3.1	W
2015	0	0	--	--	--	0.0	552	545	W	W	5.0	W
2016	0	0	--	--	--	0.0	1,241	1,203	W	W	10.5	W
Rolling 12 Months Ending in January												
2015	0	0	--	--	--	0.0	5,979	5,922	W	W	5.1	W
2016	0	0	--	--	--	0.0	7,187	7,029	W	W	5.5	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 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2006 - January 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
Year to Date												
2014	23,384	1,093	W	W	1.29	61.0	385	62	18.67	115.30	1.30	15.0
2015	17,776	773	W	W	1.59	46.2	159	26	12.53	76.07	2.04	9.7
2016	14,296	638	W	W	1.51	41.5	142	23	10.87	67.07	1.55	11.6
Rolling 12 Months Ending in January												
2015	276,259	12,731	W	W	1.35	67.1	2,064	337	W	W	1.51	15.0
2016	184,141	8,127	W	W	1.56	45.4	4,338	710	W	W	1.73	30.9

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

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

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

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

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2006 - January 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
Year to Date												
2014	398	15	W	W	5.87	11.7	66,078	64,072	W	W	60.7	W
2015	788	29	W	W	5.74	18.1	60,633	58,625	W	W	57.4	W
2016	400	15	W	W	5.94	15.0	62,039	60,035	W	W	57.9	W
Rolling 12 Months Ending in January												
2015	10,126	372	W	W	5.82	23.6	736,903	712,913	W	W	62.5	W
2016	5,058	182	W	W	5.97	12.5	733,999	710,127	W	W	60.6	W

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

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	281	287	-2.3%	0	100	279	182	0	0	1	6
Connecticut	85	0	--	0	0	85	0	0	0	0	0
Maine	10	15	-29.0%	0	0	9	9	0	0	1	6
Massachusetts	185	173	7.0%	0	0	185	173	0	0	0	0
New Hampshire	0	100	-100.0%	0	100	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	1,788	2,804	-36.0%	0	0	1,752	2,758	0	0	36	46
New Jersey	69	112	-38.0%	0	0	69	112	0	0	0	0
New York	24	88	-73.0%	0	0	0	55	0	0	24	33
Pennsylvania	1,695	2,605	-35.0%	0	0	1,683	2,591	0	0	12	13
East North Central	11,597	16,270	-29.0%	6,856	9,575	4,519	6,448	0	1	222	246
Illinois	3,668	5,890	-38.0%	770	1,292	2,744	4,416	0	0	154	182
Indiana	2,643	3,572	-26.0%	2,462	3,334	181	238	0	0	0	0
Michigan	1,087	1,700	-36.0%	1,081	1,662	0	29	0	1	6	7
Ohio	2,528	3,131	-19.0%	910	1,343	1,594	1,764	0	0	24	24
Wisconsin	1,670	1,978	-16.0%	1,633	1,944	0	0	0	0	37	33
West North Central	10,502	12,935	-19.0%	10,387	12,825	0	0	6	13	109	97
Iowa	1,481	1,650	-10.0%	1,372	1,553	0	0	0	0	109	97
Kansas	1,294	1,560	-17.0%	1,294	1,560	0	0	0	0	0	0
Minnesota	1,007	1,850	-46.0%	1,007	1,848	0	0	0	2	0	0
Missouri	3,185	4,368	-27.0%	3,179	4,357	0	0	6	11	0	0
Nebraska	1,268	1,158	9.5%	1,268	1,158	0	0	0	0	0	0
North Dakota	2,146	2,136	0.4%	2,146	2,136	0	0	0	0	0	0
South Dakota	121	212	-43.0%	121	212	0	0	0	0	0	0
South Atlantic	7,138	10,322	-31.0%	6,261	9,019	762	1,138	0	0	115	166
Delaware	0	35	-100.0%	0	0	0	35	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	969	1,579	-39.0%	956	1,579	12	0	0	0	0	0
Georgia	1,112	1,777	-37.0%	1,097	1,740	0	0	0	0	15	36
Maryland	244	619	-61.0%	0	0	220	583	0	0	25	36
North Carolina	803	1,608	-50.0%	803	1,608	0	0	0	0	0	0
South Carolina	860	1,086	-21.0%	843	1,070	0	0	0	0	18	16
Virginia	651	800	-19.0%	572	690	45	77	0	0	33	32
West Virginia	2,498	2,819	-11.0%	1,989	2,332	484	443	0	0	25	45
East South Central	5,032	6,881	-27.0%	4,675	6,451	240	298	0	0	117	132
Alabama	1,187	1,765	-33.0%	1,187	1,765	0	0	0	0	0	0
Kentucky	2,840	3,531	-20.0%	2,840	3,531	0	0	0	0	0	0
Mississippi	296	547	-46.0%	56	249	240	298	0	0	0	0
Tennessee	709	1,038	-32.0%	592	906	0	0	0	0	117	132
West South Central	8,876	13,259	-33.0%	4,184	7,360	4,686	5,892	0	0	6	6
Arkansas	1,218	1,599	-24.0%	982	1,431	230	161	0	0	6	6
Louisiana	641	1,238	-48.0%	543	610	98	628	0	0	0	0
Oklahoma	707	1,921	-63.0%	609	1,815	99	106	0	0	0	0
Texas	6,310	8,501	-26.0%	2,051	3,504	4,259	4,997	0	0	0	0
Mountain	7,580	8,842	-14.0%	6,731	7,950	848	892	0	0	0	0
Arizona	1,270	2,035	-38.0%	1,270	2,035	0	0	0	0	0	0
Colorado	1,485	1,584	-6.2%	1,485	1,584	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	805	848	-5.0%	0	0	805	848	0	0	0	0
Nevada	103	160	-35.0%	60	115	43	44	0	0	0	0
New Mexico	886	976	-9.2%	886	976	0	0	0	0	0	0
Utah	951	1,046	-9.1%	951	1,046	0	0	0	0	0	0
Wyoming	2,080	2,193	-5.2%	2,080	2,193	0	0	0	0	0	0
Pacific Contiguous	480	746	-36.0%	179	160	268	512	0	0	32	74
California	32	74	-57.0%	0	0	0	0	0	0	32	74
Oregon	179	160	12.0%	179	160	0	0	0	0	0	0
Washington	268	512	-48.0%	0	0	268	512	0	0	0	0
Pacific Noncontiguous	84	57	48.0%	26	0	58	57	0	0	0	0
Alaska	26	0	--	26	0	0	0	0	0	0	0
Hawaii	58	57	2.2%	0	0	58	57	0	0	0	0
U.S. Total	53,356	72,404	-26.0%	39,300	53,439	13,412	18,177	6	14	638	773

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	281	287	-2.3%	0	100	279	182	0	0	1	6
Connecticut	85	0	--	0	0	85	0	0	0	0	0
Maine	10	15	-29.0%	0	0	9	9	0	0	1	6
Massachusetts	185	173	7.0%	0	0	185	173	0	0	0	0
New Hampshire	0	100	-100.0%	0	100	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	1,788	2,804	-36.0%	0	0	1,752	2,758	0	0	36	46
New Jersey	69	112	-38.0%	0	0	69	112	0	0	0	0
New York	24	88	-73.0%	0	0	0	55	0	0	24	33
Pennsylvania	1,695	2,605	-35.0%	0	0	1,683	2,591	0	0	12	13
East North Central	11,597	16,270	-29.0%	6,856	9,575	4,519	6,448	0	1	222	246
Illinois	3,668	5,890	-38.0%	770	1,292	2,744	4,416	0	0	154	182
Indiana	2,643	3,572	-26.0%	2,462	3,334	181	238	0	0	0	0
Michigan	1,087	1,700	-36.0%	1,081	1,662	0	29	0	1	6	7
Ohio	2,528	3,131	-19.0%	910	1,343	1,594	1,764	0	0	24	24
Wisconsin	1,670	1,978	-16.0%	1,633	1,944	0	0	0	0	37	33
West North Central	10,502	12,935	-19.0%	10,387	12,825	0	0	6	13	109	97
Iowa	1,481	1,650	-10.0%	1,372	1,553	0	0	0	0	109	97
Kansas	1,294	1,560	-17.0%	1,294	1,560	0	0	0	0	0	0
Minnesota	1,007	1,850	-46.0%	1,007	1,848	0	0	0	2	0	0
Missouri	3,185	4,368	-27.0%	3,179	4,357	0	0	6	11	0	0
Nebraska	1,268	1,158	9.5%	1,268	1,158	0	0	0	0	0	0
North Dakota	2,146	2,136	0.4%	2,146	2,136	0	0	0	0	0	0
South Dakota	121	212	-43.0%	121	212	0	0	0	0	0	0
South Atlantic	7,138	10,322	-31.0%	6,261	9,019	762	1,138	0	0	115	166
Delaware	0	35	-100.0%	0	0	0	35	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	969	1,579	-39.0%	956	1,579	12	0	0	0	0	0
Georgia	1,112	1,777	-37.0%	1,097	1,740	0	0	0	0	15	36
Maryland	244	619	-61.0%	0	0	220	583	0	0	25	36
North Carolina	803	1,608	-50.0%	803	1,608	0	0	0	0	0	0
South Carolina	860	1,086	-21.0%	843	1,070	0	0	0	0	18	16
Virginia	651	800	-19.0%	572	690	45	77	0	0	33	32
West Virginia	2,498	2,819	-11.0%	1,989	2,332	484	443	0	0	25	45
East South Central	5,032	6,881	-27.0%	4,675	6,451	240	298	0	0	117	132
Alabama	1,187	1,765	-33.0%	1,187	1,765	0	0	0	0	0	0
Kentucky	2,840	3,531	-20.0%	2,840	3,531	0	0	0	0	0	0
Mississippi	296	547	-46.0%	56	249	240	298	0	0	0	0
Tennessee	709	1,038	-32.0%	592	906	0	0	0	0	117	132
West South Central	8,876	13,259	-33.0%	4,184	7,360	4,686	5,892	0	0	6	6
Arkansas	1,218	1,599	-24.0%	982	1,431	230	161	0	0	6	6
Louisiana	641	1,238	-48.0%	543	610	98	628	0	0	0	0
Oklahoma	707	1,921	-63.0%	609	1,815	99	106	0	0	0	0
Texas	6,310	8,501	-26.0%	2,051	3,504	4,259	4,997	0	0	0	0
Mountain	7,580	8,842	-14.0%	6,731	7,950	848	892	0	0	0	0
Arizona	1,270	2,035	-38.0%	1,270	2,035	0	0	0	0	0	0
Colorado	1,485	1,584	-6.2%	1,485	1,584	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	805	848	-5.0%	0	0	805	848	0	0	0	0
Nevada	103	160	-35.0%	60	115	43	44	0	0	0	0
New Mexico	886	976	-9.2%	886	976	0	0	0	0	0	0
Utah	951	1,046	-9.1%	951	1,046	0	0	0	0	0	0
Wyoming	2,080	2,193	-5.2%	2,080	2,193	0	0	0	0	0	0
Pacific Contiguous	480	746	-36.0%	179	160	268	512	0	0	32	74
California	32	74	-57.0%	0	0	0	0	0	0	32	74
Oregon	179	160	12.0%	179	160	0	0	0	0	0	0
Washington	268	512	-48.0%	0	0	268	512	0	0	0	0
Pacific Noncontiguous	84	57	48.0%	26	0	58	57	0	0	0	0
Alaska	26	0	--	26	0	0	0	0	0	0	0
Hawaii	58	57	2.2%	0	0	58	57	0	0	0	0
U.S. Total	53,356	72,404	-26.0%	39,300	53,439	13,412	18,177	6	14	638	773

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	14	69	-80.0%	2	2	11	67	0	0	0	0
Connecticut	3	6	-55.0%	0	0	3	6	0	0	0	0
Maine	3	5	-34.0%	0	0	3	5	0	0	0	0
Massachusetts	1	57	-98.0%	0	0	1	57	0	0	0	0
New Hampshire	2	2	-5.1%	2	2	0	0	0	0	0	0
Rhode Island	4	0	--	0	0	4	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	46	664	-93.0%	2	369	42	295	0	0	2	0
New Jersey	1	6	-83.0%	0	0	1	6	0	0	0	0
New York	22	548	-96.0%	2	369	18	179	0	0	2	0
Pennsylvania	23	110	-79.0%	0	0	23	110	0	0	0	0
East North Central	135	160	-16.0%	88	108	44	46	0	0	3	6
Illinois	14	8	80.0%	2	2	12	6	0	0	0	0
Indiana	23	41	-44.0%	23	41	0	0	0	0	0	0
Michigan	17	12	42.0%	16	12	0	0	0	0	1	0
Ohio	78	83	-6.3%	45	38	31	40	0	0	2	5
Wisconsin	3	16	-83.0%	3	15	0	0	0	0	0	0
West North Central	32	48	-34.0%	32	48	0	0	0	0	0	0
Iowa	5	6	-7.4%	5	6	0	0	0	0	0	0
Kansas	10	10	3.7%	10	10	0	0	0	0	0	0
Minnesota	2	1	75.0%	2	1	0	0	0	0	0	0
Missouri	7	22	-69.0%	7	22	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	5	4	29.0%	5	4	0	0	0	0	0	0
South Dakota	2	6	-61.0%	2	6	0	0	0	0	0	0
South Atlantic	357	375	-4.9%	188	213	152	142	0	0	18	20
Delaware	23	52	-57.0%	0	0	23	52	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2	8	-70.0%	2	8	0	0	0	0	0	0
Georgia	74	74	-0.2%	39	25	30	39	0	0	5	10
Maryland	35	33	6.2%	0	0	35	33	0	0	0	0
North Carolina	83	104	-21.0%	32	92	51	12	0	0	0	0
South Carolina	26	45	-43.0%	14	38	0	0	0	0	12	7
Virginia	89	44	99.0%	74	36	13	5	0	0	1	3
West Virginia	26	14	85.0%	26	13	0	1	0	0	0	0
East South Central	72	102	-30.0%	61	95	10	7	0	0	1	0
Alabama	28	29	-3.6%	18	22	10	7	0	0	0	0
Kentucky	15	11	42.0%	15	11	0	0	0	0	0	0
Mississippi	8	2	241.0%	8	2	0	0	0	0	0	0
Tennessee	20	59	-66.0%	19	59	0	0	0	0	1	0
West South Central	6	52	-88.0%	5	38	2	14	0	0	0	0
Arkansas	1	5	-71.0%	1	0	1	5	0	0	0	0
Louisiana	1	41	-98.0%	0	34	1	7	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	4	7	-39.0%	4	4	0	3	0	0	0	0
Mountain	29	45	-34.0%	28	45	2	0	0	0	0	0
Arizona	4	13	-69.0%	4	13	0	0	0	0	0	0
Colorado	2	5	-68.0%	2	5	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	0	--	0	0	1	0	0	0	0	0
Nevada	2	3	-28.0%	2	3	1	0	0	0	0	0
New Mexico	7	12	-42.0%	7	12	0	0	0	0	0	0
Utah	4	2	67.0%	4	2	0	0	0	0	0	0
Wyoming	10	9	5.4%	10	9	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	808	665	21.0%	652	534	156	132	0	0	0	0
Alaska	1	0	--	1	0	0	0	0	0	0	0
Hawaii	807	665	21.0%	651	534	156	132	0	0	0	0
U.S. Total	1,499	2,182	-31.0%	1,058	1,452	419	703	0	0	23	26

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

Notes:
See Glossary for definitions. Values are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Petroleum 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) January 2016 and 2015
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	14	69	-80.0%	2	2	11	67	0	0	0	0
Connecticut	3	6	-55.0%	0	0	3	6	0	0	0	0
Maine	3	5	-34.0%	0	0	3	5	0	0	0	0
Massachusetts	1	57	-98.0%	0	0	1	57	0	0	0	0
New Hampshire	2	2	-5.1%	2	2	0	0	0	0	0	0
Rhode Island	4	0	--	0	0	4	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	46	664	-93.0%	2	369	42	295	0	0	2	0
New Jersey	1	6	-83.0%	0	0	1	6	0	0	0	0
New York	22	548	-96.0%	2	369	18	179	0	0	2	0
Pennsylvania	23	110	-79.0%	0	0	23	110	0	0	0	0
East North Central	135	160	-16.0%	88	108	44	46	0	0	3	6
Illinois	14	8	80.0%	2	2	12	6	0	0	0	0
Indiana	23	41	-44.0%	23	41	0	0	0	0	0	0
Michigan	17	12	42.0%	16	12	0	0	0	0	1	0
Ohio	78	83	-6.3%	45	38	31	40	0	0	2	5
Wisconsin	3	16	-83.0%	3	15	0	0	0	0	0	0
West North Central	32	48	-34.0%	32	48	0	0	0	0	0	0
Iowa	5	6	-7.4%	5	6	0	0	0	0	0	0
Kansas	10	10	3.7%	10	10	0	0	0	0	0	0
Minnesota	2	1	75.0%	2	1	0	0	0	0	0	0
Missouri	7	22	-69.0%	7	22	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	5	4	29.0%	5	4	0	0	0	0	0	0
South Dakota	2	6	-61.0%	2	6	0	0	0	0	0	0
South Atlantic	357	375	-4.9%	188	213	152	142	0	0	18	20
Delaware	23	52	-57.0%	0	0	23	52	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2	8	-70.0%	2	8	0	0	0	0	0	0
Georgia	74	74	-0.2%	39	25	30	39	0	0	5	10
Maryland	35	33	6.2%	0	0	35	33	0	0	0	0
North Carolina	83	104	-21.0%	32	92	51	12	0	0	0	0
South Carolina	26	45	-43.0%	14	38	0	0	0	0	12	7
Virginia	89	44	99.0%	74	36	13	5	0	0	1	3
West Virginia	26	14	85.0%	26	13	0	1	0	0	0	0
East South Central	72	102	-30.0%	61	95	10	7	0	0	1	0
Alabama	28	29	-3.6%	18	22	10	7	0	0	0	0
Kentucky	15	11	42.0%	15	11	0	0	0	0	0	0
Mississippi	8	2	241.0%	8	2	0	0	0	0	0	0
Tennessee	20	59	-66.0%	19	59	0	0	0	0	1	0
West South Central	6	52	-88.0%	5	38	2	14	0	0	0	0
Arkansas	1	5	-71.0%	1	0	1	5	0	0	0	0
Louisiana	1	41	-98.0%	0	34	1	7	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	4	7	-39.0%	4	4	0	3	0	0	0	0
Mountain	29	45	-34.0%	28	45	2	0	0	0	0	0
Arizona	4	13	-69.0%	4	13	0	0	0	0	0	0
Colorado	2	5	-68.0%	2	5	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	1	0	--	0	0	1	0	0	0	0	0
Nevada	2	3	-28.0%	2	3	1	0	0	0	0	0
New Mexico	7	12	-42.0%	7	12	0	0	0	0	0	0
Utah	4	2	67.0%	4	2	0	0	0	0	0	0
Wyoming	10	9	5.4%	10	9	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	808	665	21.0%	652	534	156	132	0	0	0	0
Alaska	1	0	--	1	0	0	0	0	0	0	0
Hawaii	807	665	21.0%	651	534	156	132	0	0	0	0
U.S. Total	1,499	2,182	-31.0%	1,058	1,452	419	703	0	0	23	26

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 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	115	124	-7.1%	59	66	49	52	0	0	7	6
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	58	41	41.0%	58	41	0	0	0	0	0	0
Michigan	0	27	-100.0%	0	25	0	2	0	0	0	0
Ohio	49	49	-0.2%	0	0	49	49	0	0	0	0
Wisconsin	8	6	32.0%	1	0	0	0	0	0	7	6
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	79	162	-51.0%	71	139	0	0	0	0	8	22
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	71	139	-49.0%	71	139	0	0	0	0	0	0
Georgia	8	22	-65.0%	0	0	0	0	0	0	8	22
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	36	21	69.0%	36	21	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	36	21	69.0%	36	21	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	111	177	-37.0%	111	177	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	111	177	-37.0%	111	177	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	341	484	-30.0%	278	404	49	52	0	0	15	29

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 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	115	124	-7.1%	59	66	49	52	0	0	7	6
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	58	41	41.0%	58	41	0	0	0	0	0	0
Michigan	0	27	-100.0%	0	25	0	2	0	0	0	0
Ohio	49	49	-0.2%	0	0	49	49	0	0	0	0
Wisconsin	8	6	32.0%	1	0	0	0	0	0	7	6
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	79	162	-51.0%	71	139	0	0	0	0	8	22
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	71	139	-49.0%	71	139	0	0	0	0	0	0
Georgia	8	22	-65.0%	0	0	0	0	0	0	8	22
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	36	21	69.0%	36	21	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	36	21	69.0%	36	21	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	111	177	-37.0%	111	177	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	111	177	-37.0%	111	177	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	341	484	-30.0%	278	404	49	52	0	0	15	29

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

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	26,538	24,772	7.1%	14	20	26,502	24,736	0	0	22	17
Connecticut	10,296	10,433	-1.3%	0	0	10,296	10,433	0	0	0	0
Maine	2,499	1,913	31.0%	0	0	2,478	1,896	0	0	22	17
Massachusetts	9,101	6,603	38.0%	14	19	9,087	6,584	0	0	0	0
New Hampshire	2,204	3,636	-39.0%	0	1	2,203	3,636	0	0	0	0
Rhode Island	2,438	2,187	12.0%	0	0	2,438	2,187	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	80,478	79,873	0.8%	7,270	8,689	73,004	70,978	0	0	203	206
New Jersey	22,324	17,929	25.0%	0	0	22,324	17,929	0	0	0	0
New York	26,576	31,093	-15.0%	7,270	8,689	19,219	22,329	0	0	87	75
Pennsylvania	31,578	30,851	2.4%	0	0	31,461	30,720	0	0	116	131
East North Central	66,073	56,202	18.0%	28,094	24,002	36,126	31,253	1,109	487	744	460
Illinois	7,421	5,192	43.0%	192	122	7,225	5,066	0	0	4	5
Indiana	12,589	10,631	18.0%	10,026	8,147	2,562	2,483	0	0	0	0
Michigan	16,346	13,272	23.0%	3,198	2,919	11,703	9,660	1,109	487	336	206
Ohio	19,785	19,120	3.5%	5,504	5,392	14,223	13,665	0	0	58	62
Wisconsin	9,932	7,987	24.0%	9,173	7,422	412	378	0	0	346	187
West North Central	10,742	6,509	65.0%	9,434	5,990	1,212	459	94	58	2	2
Iowa	2,254	638	253.0%	2,252	636	0	0	0	0	2	2
Kansas	652	462	41.0%	652	462	0	0	0	0	0	0
Minnesota	5,146	2,424	112.0%	4,519	2,081	627	290	0	53	0	0
Missouri	2,105	2,361	-11.0%	1,426	2,187	585	169	94	4	0	0
Nebraska	74	166	-56.0%	74	166	0	0	0	0	0	0
North Dakota	87	2	NM	87	2	0	0	0	0	0	0
South Dakota	424	456	-7.0%	424	456	0	0	0	0	0	0
South Atlantic	175,775	161,133	9.1%	146,414	135,962	25,970	22,417	0	0	3,391	2,755
Delaware	2,921	4,050	-28.0%	0	0	1,890	2,817	0	0	1,030	1,232
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	84,200	78,222	7.6%	80,850	76,251	3,350	1,971	0	0	0	0
Georgia	29,998	30,040	-0.1%	20,527	20,380	8,266	8,967	0	0	1,205	693
Maryland	1,247	939	33.0%	0	0	1,094	927	0	0	153	13
North Carolina	23,260	21,750	6.9%	20,975	19,661	2,285	2,089	0	0	0	0
South Carolina	9,682	7,131	36.0%	8,917	6,560	569	491	0	0	196	80
Virginia	24,245	18,766	29.0%	15,115	13,054	8,369	4,975	0	0	762	737
West Virginia	222	235	-5.8%	31	56	146	180	0	0	45	0
East South Central	76,851	68,167	13.0%	48,230	39,364	27,923	28,225	0	0	698	578
Alabama	31,982	33,786	-5.3%	9,829	9,268	22,153	24,518	0	0	0	0
Kentucky	5,586	2,427	130.0%	5,267	2,251	319	176	0	0	0	0
Mississippi	32,230	26,621	21.0%	26,779	23,090	5,452	3,531	0	0	0	0
Tennessee	7,053	5,333	32.0%	6,355	4,755	0	0	0	0	698	578
West South Central	231,072	229,917	0.5%	64,552	55,972	114,975	121,979	0	0	51,545	51,966
Arkansas	8,878	10,030	-11.0%	4,740	1,661	3,852	7,976	0	0	286	393
Louisiana	45,651	39,906	14.0%	22,256	20,218	5,102	1,527	0	0	18,294	18,161
Oklahoma	21,699	20,702	4.8%	15,035	14,419	6,664	6,284	0	0	0	0
Texas	154,844	159,279	-2.8%	22,521	19,675	99,357	106,192	0	0	32,966	33,412
Mountain	52,157	40,675	28.0%	41,620	30,775	10,533	9,884	0	0	4	16
Arizona	15,130	11,146	36.0%	9,814	5,516	5,317	5,630	0	0	0	0
Colorado	7,648	6,149	24.0%	6,181	4,764	1,468	1,386	0	0	0	0
Idaho	2,727	2,157	26.0%	1,468	1,412	1,259	745	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	16,275	11,592	40.0%	16,275	11,592	0	0	0	0	0	0
New Mexico	6,085	5,940	2.4%	3,596	3,842	2,490	2,098	0	0	0	0
Utah	4,288	3,679	17.0%	4,284	3,638	0	25	0	0	4	16
Wyoming	2	11	-81.0%	2	11	0	0	0	0	0	0
Pacific Contiguous	72,369	65,882	9.8%	30,020	27,143	38,923	36,113	0	0	3,426	2,625
California	53,877	53,997	-0.2%	18,864	19,786	31,588	31,586	0	0	3,426	2,625
Oregon	10,317	8,230	25.0%	3,862	3,703	6,456	4,527	0	0	0	0
Washington	8,174	3,655	124.0%	7,295	3,655	880	0	0	0	0	0
Pacific Noncontiguous	1,313	1,908	-31.0%	1,313	1,908	0	0	0	0	0	0
Alaska	1,313	1,908	-31.0%	1,313	1,908	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	793,369	735,038	7.9%	376,962	329,825	355,169	346,044	1,203	545	60,035	58,625

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

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

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

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

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	26,538	24,772	7.1%	14	20	26,502	24,736	0	0	22	17
Connecticut	10,296	10,433	-1.3%	0	0	10,296	10,433	0	0	0	0
Maine	2,499	1,913	31.0%	0	0	2,478	1,896	0	0	22	17
Massachusetts	9,101	6,603	38.0%	14	19	9,087	6,584	0	0	0	0
New Hampshire	2,204	3,636	-39.0%	0	1	2,203	3,636	0	0	0	0
Rhode Island	2,438	2,187	12.0%	0	0	2,438	2,187	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	80,478	79,873	0.8%	7,270	8,689	73,004	70,978	0	0	203	206
New Jersey	22,324	17,929	25.0%	0	0	22,324	17,929	0	0	0	0
New York	26,576	31,093	-15.0%	7,270	8,689	19,219	22,329	0	0	87	75
Pennsylvania	31,578	30,851	2.4%	0	0	31,461	30,720	0	0	116	131
East North Central	66,073	56,202	18.0%	28,094	24,002	36,126	31,253	1,109	487	744	460
Illinois	7,421	5,192	43.0%	192	122	7,225	5,066	0	0	4	5
Indiana	12,589	10,631	18.0%	10,026	8,147	2,562	2,483	0	0	0	0
Michigan	16,346	13,272	23.0%	3,198	2,919	11,703	9,660	1,109	487	336	206
Ohio	19,785	19,120	3.5%	5,504	5,392	14,223	13,665	0	0	58	62
Wisconsin	9,932	7,987	24.0%	9,173	7,422	412	378	0	0	346	187
West North Central	10,742	6,509	65.0%	9,434	5,990	1,212	459	94	58	2	2
Iowa	2,254	638	253.0%	2,252	636	0	0	0	0	2	2
Kansas	652	462	41.0%	652	462	0	0	0	0	0	0
Minnesota	5,146	2,424	112.0%	4,519	2,081	627	290	0	53	0	0
Missouri	2,105	2,361	-11.0%	1,426	2,187	585	169	94	4	0	0
Nebraska	74	166	-56.0%	74	166	0	0	0	0	0	0
North Dakota	87	2	NM	87	2	0	0	0	0	0	0
South Dakota	424	456	-7.0%	424	456	0	0	0	0	0	0
South Atlantic	175,775	161,133	9.1%	146,414	135,962	25,970	22,417	0	0	3,391	2,755
Delaware	2,921	4,050	-28.0%	0	0	1,890	2,817	0	0	1,030	1,232
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	84,200	78,222	7.6%	80,850	76,251	3,350	1,971	0	0	0	0
Georgia	29,998	30,040	-0.1%	20,527	20,380	8,266	8,967	0	0	1,205	693
Maryland	1,247	939	33.0%	0	0	1,094	927	0	0	153	13
North Carolina	23,260	21,750	6.9%	20,975	19,661	2,285	2,089	0	0	0	0
South Carolina	9,682	7,131	36.0%	8,917	6,560	569	491	0	0	196	80
Virginia	24,245	18,766	29.0%	15,115	13,054	8,369	4,975	0	0	762	737
West Virginia	222	235	-5.8%	31	56	146	180	0	0	45	0
East South Central	76,851	68,167	13.0%	48,230	39,364	27,923	28,225	0	0	698	578
Alabama	31,982	33,786	-5.3%	9,829	9,268	22,153	24,518	0	0	0	0
Kentucky	5,586	2,427	130.0%	5,267	2,251	319	176	0	0	0	0
Mississippi	32,230	26,621	21.0%	26,779	23,090	5,452	3,531	0	0	0	0
Tennessee	7,053	5,333	32.0%	6,355	4,755	0	0	0	0	698	578
West South Central	231,072	229,917	0.5%	64,552	55,972	114,975	121,979	0	0	51,545	51,966
Arkansas	8,878	10,030	-11.0%	4,740	1,661	3,852	7,976	0	0	286	393
Louisiana	45,651	39,906	14.0%	22,256	20,218	5,102	1,527	0	0	18,294	18,161
Oklahoma	21,699	20,702	4.8%	15,035	14,419	6,664	6,284	0	0	0	0
Texas	154,844	159,279	-2.8%	22,521	19,675	99,357	106,192	0	0	32,966	33,412
Mountain	52,157	40,675	28.0%	41,620	30,775	10,533	9,884	0	0	4	16
Arizona	15,130	11,146	36.0%	9,814	5,516	5,317	5,630	0	0	0	0
Colorado	7,648	6,149	24.0%	6,181	4,764	1,468	1,386	0	0	0	0
Idaho	2,727	2,157	26.0%	1,468	1,412	1,259	745	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	16,275	11,592	40.0%	16,275	11,592	0	0	0	0	0	0
New Mexico	6,085	5,940	2.4%	3,596	3,842	2,490	2,098	0	0	0	0
Utah	4,288	3,679	17.0%	4,284	3,638	0	25	0	0	4	16
Wyoming	2	11	-81.0%	2	11	0	0	0	0	0	0
Pacific Contiguous	72,369	65,882	9.8%	30,020	27,143	38,923	36,113	0	0	3,426	2,625
California	53,877	53,997	-0.2%	18,864	19,786	31,588	31,586	0	0	3,426	2,625
Oregon	10,317	8,230	25.0%	3,862	3,703	6,456	4,527	0	0	0	0
Washington	8,174	3,655	124.0%	7,295	3,655	880	0	0	0	0	0
Pacific Noncontiguous	1,313	1,908	-31.0%	1,313	1,908	0	0	0	0	0	0
Alaska	1,313	1,908	-31.0%	1,313	1,908	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	793,369	735,038	7.9%	376,962	329,825	355,169	346,044	1,203	545	60,035	58,625

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015
New England	W	W	W	--	3.67	W	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	--	3.67	--	--	3.67	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.16	2.56	-16.0%	--	--	2.16	2.56
New Jersey	W	4.10	W	--	--	W	4.10
New York	--	3.12	--	--	--	--	3.12
Pennsylvania	W	2.48	W	--	--	W	2.48
East North Central	2.11	2.24	-5.8%	2.21	2.33	1.97	2.10
Illinois	W	1.98	W	1.99	2.06	W	1.96
Indiana	W	W	W	2.29	2.41	W	W
Michigan	2.35	W	W	2.35	2.53	--	W
Ohio	2.11	W	W	2.11	2.13	2.11	W
Wisconsin	2.13	2.34	-9.0%	2.13	2.34	--	--
West North Central	1.70	1.80	-5.6%	1.70	1.80	--	--
Iowa	1.59	1.71	-7.0%	1.59	1.71	--	--
Kansas	1.69	1.77	-4.5%	1.69	1.77	--	--
Minnesota	2.13	2.02	5.4%	2.13	2.02	--	--
Missouri	1.88	1.97	-4.6%	1.88	1.97	--	--
Nebraska	1.32	1.39	-5.0%	1.32	1.39	--	--
North Dakota	1.44	1.44	0.0%	1.44	1.44	--	--
South Dakota	2.24	2.14	4.7%	2.24	2.14	--	--
South Atlantic	2.75	3.01	-8.6%	2.80	3.04	2.29	2.76
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	3.17	W	2.95	3.17	W	--
Georgia	2.82	3.00	-6.0%	2.82	3.00	--	--
Maryland	2.56	3.01	-15.0%	--	--	2.56	3.01
North Carolina	3.13	3.54	-12.0%	3.13	3.54	--	--
South Carolina	3.36	3.61	-6.9%	3.36	3.61	--	--
Virginia	W	W	W	2.88	3.09	W	W
West Virginia	W	2.34	W	2.34	2.36	W	2.21
East South Central	W	W	W	2.22	2.38	W	W
Alabama	2.38	2.44	-2.5%	2.38	2.44	--	--
Kentucky	2.14	2.28	-6.1%	2.14	2.28	--	--
Mississippi	W	W	W	2.75	3.24	W	W
Tennessee	2.27	2.41	-5.8%	2.27	2.41	--	--
West South Central	1.93	2.11	-8.5%	2.22	2.23	1.65	1.94
Arkansas	W	W	W	2.28	2.33	W	W
Louisiana	W	W	W	2.70	2.72	W	W
Oklahoma	W	W	W	2.04	2.01	W	W
Texas	1.78	2.04	-13.0%	2.13	2.22	1.61	1.91
Mountain	W	W	W	1.94	1.92	W	W
Arizona	2.13	2.06	3.4%	2.13	2.06	--	--
Colorado	1.81	1.84	-1.6%	1.81	1.84	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	1.96	2.64	W	W
New Mexico	2.38	2.48	-4.0%	2.38	2.48	--	--
Utah	1.95	1.96	-0.5%	1.95	1.96	--	--
Wyoming	1.72	1.53	12.0%	1.72	1.53	--	--
Pacific Contiguous	W	W	W	2.31	2.45	W	W
California	--	--	--	--	--	--	--
Oregon	2.31	2.45	-5.7%	2.31	2.45	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.15	--	W	W
Alaska	3.15	--	--	3.15	--	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.11	2.28	-7.5%	2.17	2.30	1.94	2.21

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	W	W	W	--	3.67	W	W
Connecticut	W	--	W	--	--	W	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	--	3.67	--	--	3.67	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.16	2.56	-16.0%	--	--	2.16	2.56
New Jersey	W	4.10	W	--	--	W	4.10
New York	--	3.12	--	--	--	--	3.12
Pennsylvania	W	2.48	W	--	--	W	2.48
East North Central	2.11	2.24	-5.8%	2.21	2.33	1.97	2.10
Illinois	W	1.98	W	1.99	2.06	W	1.96
Indiana	W	W	W	2.29	2.41	W	W
Michigan	2.35	W	W	2.35	2.53	--	W
Ohio	2.11	W	W	2.11	2.13	2.11	W
Wisconsin	2.13	2.34	-9.0%	2.13	2.34	--	--
West North Central	1.70	1.80	-5.6%	1.70	1.80	--	--
Iowa	1.59	1.71	-7.0%	1.59	1.71	--	--
Kansas	1.69	1.77	-4.5%	1.69	1.77	--	--
Minnesota	2.13	2.02	5.4%	2.13	2.02	--	--
Missouri	1.88	1.97	-4.6%	1.88	1.97	--	--
Nebraska	1.32	1.39	-5.0%	1.32	1.39	--	--
North Dakota	1.44	1.44	0.0%	1.44	1.44	--	--
South Dakota	2.24	2.14	4.7%	2.24	2.14	--	--
South Atlantic	2.75	3.01	-8.6%	2.80	3.04	2.29	2.76
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	3.17	W	2.95	3.17	W	--
Georgia	2.82	3.00	-6.0%	2.82	3.00	--	--
Maryland	2.56	3.01	-15.0%	--	--	2.56	3.01
North Carolina	3.13	3.54	-12.0%	3.13	3.54	--	--
South Carolina	3.36	3.61	-6.9%	3.36	3.61	--	--
Virginia	W	W	W	2.88	3.09	W	W
West Virginia	W	2.34	W	2.34	2.36	W	2.21
East South Central	W	W	W	2.22	2.38	W	W
Alabama	2.38	2.44	-2.5%	2.38	2.44	--	--
Kentucky	2.14	2.28	-6.1%	2.14	2.28	--	--
Mississippi	W	W	W	2.75	3.24	W	W
Tennessee	2.27	2.41	-5.8%	2.27	2.41	--	--
West South Central	1.93	2.11	-8.5%	2.22	2.23	1.65	1.94
Arkansas	W	W	W	2.28	2.33	W	W
Louisiana	W	W	W	2.70	2.72	W	W
Oklahoma	W	W	W	2.04	2.01	W	W
Texas	1.78	2.04	-13.0%	2.13	2.22	1.61	1.91
Mountain	W	W	W	1.94	1.92	W	W
Arizona	2.13	2.06	3.4%	2.13	2.06	--	--
Colorado	1.81	1.84	-1.6%	1.81	1.84	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	1.96	2.64	W	W
New Mexico	2.38	2.48	-4.0%	2.38	2.48	--	--
Utah	1.95	1.96	-0.5%	1.95	1.96	--	--
Wyoming	1.72	1.53	12.0%	1.72	1.53	--	--
Pacific Contiguous	W	W	W	2.31	2.45	W	W
California	--	--	--	--	--	--	--
Oregon	2.31	2.45	-5.7%	2.31	2.45	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.15	--	W	W
Alaska	3.15	--	--	3.15	--	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.11	2.28	-7.5%	2.17	2.30	1.94	2.21

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W = Withheld to avoid disclosure of individual company data.

Notes:
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Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
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, January 2016 and 2015
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015
New England	10.49	W	W	9.99	13.04	10.59	W
Connecticut	W	15.26	W	--	--	W	15.26
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	22.24	22.24	W	W
New Hampshire	9.19	12.74	-28.0%	9.19	12.74	--	--
Rhode Island	W	--	W	--	--	W	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	12.81	W	7.61	9.49	W	18.10
New Jersey	W	12.40	W	--	--	W	12.40
New York	8.74	12.82	-32.0%	7.61	9.49	8.88	19.79
Pennsylvania	8.05	12.68	-37.0%	--	--	8.05	12.68
East North Central	8.36	13.02	-36.0%	8.13	13.03	8.82	12.99
Illinois	W	13.13	W	8.71	12.46	W	13.34
Indiana	8.61	13.11	-34.0%	8.61	13.11	--	--
Michigan	7.64	11.96	-36.0%	7.64	11.96	--	--
Ohio	W	12.61	W	7.52	12.26	W	12.94
Wisconsin	16.71	15.61	7.0%	16.71	15.61	--	--
West North Central	7.70	11.51	-33.0%	7.70	11.51	--	--
Iowa	7.89	11.45	-31.0%	7.89	11.45	--	--
Kansas	7.68	11.66	-34.0%	7.68	11.66	--	--
Minnesota	9.71	12.16	-20.0%	9.71	12.16	--	--
Missouri	8.06	11.12	-28.0%	8.06	11.12	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	6.31	11.75	-46.0%	6.31	11.75	--	--
South Dakota	7.54	12.44	-39.0%	7.54	12.44	--	--
South Atlantic	W	W	W	8.75	13.73	W	W
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	8.21	13.99	-41.0%	8.21	13.99	--	--
Georgia	7.90	13.49	-41.0%	8.13	13.93	7.60	13.05
Maryland	6.28	10.54	-40.0%	--	--	6.28	10.54
North Carolina	W	W	W	7.76	13.44	W	W
South Carolina	9.47	13.59	-30.0%	9.47	13.59	--	--
Virginia	W	W	W	9.12	14.30	W	W
West Virginia	9.46	W	W	9.46	13.85	--	W
East South Central	W	W	W	7.73	11.94	W	W
Alabama	W	W	W	7.59	12.34	W	W
Kentucky	8.03	12.29	-35.0%	8.03	12.29	--	--
Mississippi	7.65	11.30	-32.0%	7.65	11.30	--	--
Tennessee	7.65	11.76	-35.0%	7.65	11.76	--	--
West South Central	W	11.49	W	8.67	11.60	W	11.21
Arkansas	W	W	W	7.53	11.85	W	W
Louisiana	W	W	W	--	11.39	W	W
Oklahoma	15.57	--	--	15.57	--	--	--
Texas	8.42	W	W	8.42	13.63	--	W
Mountain	W	W	W	10.35	13.72	W	W
Arizona	13.86	13.65	1.5%	13.86	13.65	--	--
Colorado	11.51	15.38	-25.0%	11.51	15.38	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	--	W	--	--	W	--
Nevada	W	W	W	12.08	18.43	W	W
New Mexico	8.44	12.63	-33.0%	8.44	12.63	--	--
Utah	8.07	10.23	-21.0%	8.07	10.23	--	--
Wyoming	10.65	13.76	-23.0%	10.65	13.76	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	W	W	W	7.50	12.32	W	W
Alaska	11.23	--	--	11.23	--	--	--
Hawaii	W	W	W	7.50	12.32	W	W
U.S. Total	7.87	12.74	-38.0%	7.86	11.80	7.90	15.12

Displayed values of zero may represent small values that round to zero.
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Petroleum Liquids includes distillate and residual fuel oils.
See the Technical Notes for fuel conversion factors.

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	10.49	W	W	9.99	13.04	10.59	W
Connecticut	W	15.26	W	--	--	W	15.26
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	22.24	22.24	W	W
New Hampshire	9.19	12.74	-28.0%	9.19	12.74	--	--
Rhode Island	W	--	W	--	--	W	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	W	12.81	W	7.61	9.49	W	18.10
New Jersey	W	12.40	W	--	--	W	12.40
New York	8.74	12.82	-32.0%	7.61	9.49	8.88	19.79
Pennsylvania	8.05	12.68	-37.0%	--	--	8.05	12.68
East North Central	8.36	13.02	-36.0%	8.13	13.03	8.82	12.99
Illinois	W	13.13	W	8.71	12.46	W	13.34
Indiana	8.61	13.11	-34.0%	8.61	13.11	--	--
Michigan	7.64	11.96	-36.0%	7.64	11.96	--	--
Ohio	W	12.61	W	7.52	12.26	W	12.94
Wisconsin	16.71	15.61	7.0%	16.71	15.61	--	--
West North Central	7.70	11.51	-33.0%	7.70	11.51	--	--
Iowa	7.89	11.45	-31.0%	7.89	11.45	--	--
Kansas	7.68	11.66	-34.0%	7.68	11.66	--	--
Minnesota	9.71	12.16	-20.0%	9.71	12.16	--	--
Missouri	8.06	11.12	-28.0%	8.06	11.12	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	6.31	11.75	-46.0%	6.31	11.75	--	--
South Dakota	7.54	12.44	-39.0%	7.54	12.44	--	--
South Atlantic	W	W	W	8.75	13.73	W	W
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	8.21	13.99	-41.0%	8.21	13.99	--	--
Georgia	7.90	13.49	-41.0%	8.13	13.93	7.60	13.05
Maryland	6.28	10.54	-40.0%	--	--	6.28	10.54
North Carolina	W	W	W	7.76	13.44	W	W
South Carolina	9.47	13.59	-30.0%	9.47	13.59	--	--
Virginia	W	W	W	9.12	14.30	W	W
West Virginia	9.46	W	W	9.46	13.85	--	W
East South Central	W	W	W	7.73	11.94	W	W
Alabama	W	W	W	7.59	12.34	W	W
Kentucky	8.03	12.29	-35.0%	8.03	12.29	--	--
Mississippi	7.65	11.30	-32.0%	7.65	11.30	--	--
Tennessee	7.65	11.76	-35.0%	7.65	11.76	--	--
West South Central	W	11.49	W	8.67	11.60	W	11.21
Arkansas	W	W	W	7.53	11.85	W	W
Louisiana	W	W	W	--	11.39	W	W
Oklahoma	15.57	--	--	15.57	--	--	--
Texas	8.42	W	W	8.42	13.63	--	W
Mountain	W	W	W	10.35	13.72	W	W
Arizona	13.86	13.65	1.5%	13.86	13.65	--	--
Colorado	11.51	15.38	-25.0%	11.51	15.38	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	--	W	--	--	W	--
Nevada	W	W	W	12.08	18.43	W	W
New Mexico	8.44	12.63	-33.0%	8.44	12.63	--	--
Utah	8.07	10.23	-21.0%	8.07	10.23	--	--
Wyoming	10.65	13.76	-23.0%	10.65	13.76	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	W	W	W	7.50	12.32	W	W
Alaska	11.23	--	--	11.23	--	--	--
Hawaii	W	W	W	7.50	12.32	W	W
U.S. Total	7.87	12.74	-38.0%	7.86	11.80	7.90	15.12

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	W	W	W	0.97	1.10	W	W
Illinois	--	--	--	--	--	--	--
Indiana	0.96	0.90	6.7%	0.96	0.90	--	--
Michigan	--	W	W	--	1.45	--	W
Ohio	W	W	W	--	--	W	W
Wisconsin	1.75	--	--	1.75	--	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.21	2.39	-49.0%	1.21	2.39	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.21	2.39	-49.0%	1.21	2.39	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.62	1.85	-12.0%	1.62	1.85	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.62	1.85	-12.0%	1.62	1.85	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.07	1.92	-44.0%	1.07	1.92	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.07	1.92	-44.0%	1.07	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	W	W	W	1.15	1.94	W	W

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 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	0.97	1.10	W	W
Illinois	--	--	--	--	--	--	--
Indiana	0.96	0.90	6.7%	0.96	0.90	--	--
Michigan	--	W	W	--	1.45	--	W
Ohio	W	W	W	--	--	W	W
Wisconsin	1.75	--	--	1.75	--	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.21	2.39	-49.0%	1.21	2.39	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.21	2.39	-49.0%	1.21	2.39	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.62	1.85	-12.0%	1.62	1.85	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.62	1.85	-12.0%	1.62	1.85	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.07	1.92	-44.0%	1.07	1.92	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.07	1.92	-44.0%	1.07	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	1.34	2.00	-33.0%	1.15	1.94	2.50	2.43

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	January 2016	January 2015	Percentage Change	January 2016	January 2015	January 2016	January 2015
New England	5.23	10.03	-48.0%	5.63	12.72	5.23	10.02
Connecticut	5.96	8.55	-30.0%	--	--	5.96	8.55
Maine	W	W	W	--	--	W	W
Massachusetts	4.58	11.76	-61.0%	5.69	13.05	4.57	11.76
New Hampshire	W	W	W	3.38	3.41	W	W
Rhode Island	W	9.70	W	--	--	W	9.70
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.02	5.21	-42.0%	4.02	7.63	2.91	4.86
New Jersey	2.89	5.59	-48.0%	--	--	2.89	5.59
New York	3.65	6.07	-40.0%	4.02	7.63	3.48	5.34
Pennsylvania	2.58	4.13	-38.0%	--	--	2.58	4.13
East North Central	2.49	3.27	-24.0%	2.66	3.32	2.35	3.24
Illinois	W	W	W	3.77	4.22	W	W
Indiana	W	W	W	2.73	3.44	W	W
Michigan	2.58	3.52	-27.0%	2.76	3.36	2.53	3.57
Ohio	2.07	2.79	-26.0%	2.17	2.63	2.03	2.85
Wisconsin	W	W	W	2.83	3.67	W	W
West North Central	W	W	W	2.98	4.34	W	W
Iowa	2.79	4.74	-41.0%	2.79	4.74	--	--
Kansas	4.14	5.08	-19.0%	4.14	5.08	--	--
Minnesota	W	W	W	3.05	5.19	W	W
Missouri	W	W	W	2.74	3.56	W	W
Nebraska	3.33	4.26	-22.0%	3.33	4.26	--	--
North Dakota	2.45	2.81	-13.0%	2.45	2.81	--	--
South Dakota	2.42	2.78	-13.0%	2.42	2.78	--	--
South Atlantic	3.65	4.72	-23.0%	3.76	4.87	2.70	3.49
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.94	4.81	W	W
Georgia	2.95	W	W	2.91	3.68	3.06	W
Maryland	3.37	6.19	-46.0%	--	--	3.37	6.19
North Carolina	W	W	W	4.10	5.67	W	W
South Carolina	W	W	W	3.16	4.42	W	W
Virginia	W	W	W	3.85	6.03	W	W
West Virginia	2.08	2.80	-26.0%	2.04	2.89	2.09	2.78
East South Central	3.17	3.43	-7.6%	3.35	3.47	2.81	3.36
Alabama	2.87	W	W	2.77	3.32	2.92	W
Kentucky	W	W	W	3.30	5.48	W	W
Mississippi	W	W	W	3.76	3.31	W	W
Tennessee	2.56	3.57	-28.0%	2.56	3.57	--	--
West South Central	2.47	3.20	-23.0%	2.56	3.36	2.41	3.10
Arkansas	W	W	W	2.58	3.94	W	W
Louisiana	W	W	W	2.49	3.25	W	W
Oklahoma	W	W	W	2.64	3.40	W	W
Texas	2.45	3.16	-22.0%	2.56	3.41	2.41	3.11
Mountain	W	W	W	2.91	3.94	W	W
Arizona	W	W	W	3.08	4.30	W	W
Colorado	W	4.43	W	3.07	4.33	W	4.89
Idaho	2.67	3.03	-12.0%	2.67	3.03	--	--
Montana	--	--	--	--	--	--	--
Nevada	2.86	3.94	-27.0%	2.86	3.94	--	--
New Mexico	2.76	3.57	-23.0%	2.76	3.57	--	--
Utah	2.70	W	W	2.70	3.62	--	W
Wyoming	12.63	5.62	125.0%	12.63	5.62	--	--
Pacific Contiguous	2.91	3.74	-22.0%	3.20	4.07	2.66	3.37
California	2.98	3.80	-22.0%	3.36	4.13	2.73	3.47
Oregon	W	3.19	W	2.51	3.45	W	2.98
Washington	W	4.37	W	3.24	4.37	W	--
Pacific Noncontiguous	6.43	5.93	8.4%	6.43	5.93	--	--
Alaska	6.43	5.93	8.4%	6.43	5.93	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.06	4.16	-26.0%	3.28	4.25	2.77	4.05

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

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

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

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

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	January 2016 YTD	January 2015 YTD	Percentage Change	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	5.23	10.03	-48.0%	5.63	12.72	5.23	10.02
Connecticut	5.96	8.55	-30.0%	--	--	5.96	8.55
Maine	W	W	W	--	--	W	W
Massachusetts	4.58	11.76	-61.0%	5.69	13.05	4.57	11.76
New Hampshire	W	W	W	3.38	3.41	W	W
Rhode Island	W	9.70	W	--	--	W	9.70
Vermont	--	--	--	--	--	--	--
Middle Atlantic	3.02	5.21	-42.0%	4.02	7.63	2.91	4.86
New Jersey	2.89	5.59	-48.0%	--	--	2.89	5.59
New York	3.65	6.07	-40.0%	4.02	7.63	3.48	5.34
Pennsylvania	2.58	4.13	-38.0%	--	--	2.58	4.13
East North Central	2.49	3.27	-24.0%	2.66	3.32	2.35	3.24
Illinois	W	W	W	3.77	4.22	W	W
Indiana	W	W	W	2.73	3.44	W	W
Michigan	2.58	3.52	-27.0%	2.76	3.36	2.53	3.57
Ohio	2.07	2.79	-26.0%	2.17	2.63	2.03	2.85
Wisconsin	W	W	W	2.83	3.67	W	W
West North Central	W	W	W	2.98	4.34	W	W
Iowa	2.79	4.74	-41.0%	2.79	4.74	--	--
Kansas	4.14	5.08	-19.0%	4.14	5.08	--	--
Minnesota	W	W	W	3.05	5.19	W	W
Missouri	W	W	W	2.74	3.56	W	W
Nebraska	3.33	4.26	-22.0%	3.33	4.26	--	--
North Dakota	2.45	2.81	-13.0%	2.45	2.81	--	--
South Dakota	2.42	2.78	-13.0%	2.42	2.78	--	--
South Atlantic	3.65	4.72	-23.0%	3.76	4.87	2.70	3.49
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.94	4.81	W	W
Georgia	2.95	W	W	2.91	3.68	3.06	W
Maryland	3.37	6.19	-46.0%	--	--	3.37	6.19
North Carolina	W	W	W	4.10	5.67	W	W
South Carolina	W	W	W	3.16	4.42	W	W
Virginia	W	W	W	3.85	6.03	W	W
West Virginia	2.08	2.80	-26.0%	2.04	2.89	2.09	2.78
East South Central	3.17	3.43	-7.6%	3.35	3.47	2.81	3.36
Alabama	2.87	W	W	2.77	3.32	2.92	W
Kentucky	W	W	W	3.30	5.48	W	W
Mississippi	W	W	W	3.76	3.31	W	W
Tennessee	2.56	3.57	-28.0%	2.56	3.57	--	--
West South Central	2.47	3.20	-23.0%	2.56	3.36	2.41	3.10
Arkansas	W	W	W	2.58	3.94	W	W
Louisiana	W	W	W	2.49	3.25	W	W
Oklahoma	W	W	W	2.64	3.40	W	W
Texas	2.45	3.16	-22.0%	2.56	3.41	2.41	3.11
Mountain	W	W	W	2.91	3.94	W	W
Arizona	W	W	W	3.08	4.30	W	W
Colorado	W	4.43	W	3.07	4.33	W	4.89
Idaho	2.67	3.03	-12.0%	2.67	3.03	--	--
Montana	--	--	--	--	--	--	--
Nevada	2.86	3.94	-27.0%	2.86	3.94	--	--
New Mexico	2.76	3.57	-23.0%	2.76	3.57	--	--
Utah	2.70	W	W	2.70	3.62	--	W
Wyoming	12.63	5.62	125.0%	12.63	5.62	--	--
Pacific Contiguous	2.91	3.74	-22.0%	3.20	4.07	2.66	3.37
California	2.98	3.80	-22.0%	3.36	4.13	2.73	3.47
Oregon	W	3.19	W	2.51	3.45	W	2.98
Washington	W	4.37	W	3.24	4.37	W	--
Pacific Noncontiguous	6.43	5.93	8.4%	6.43	5.93	--	--
Alaska	6.43	5.93	8.4%	6.43	5.93	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.06	4.16	-26.0%	3.28	4.25	2.77	4.05

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, January 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	196	0.74	10.0	85	0.09	2.0	0	--	--
Connecticut	0	--	--	85	0.09	2.0	0	--	--
Maine	10	0.79	8.3	0	--	--	0	--	--
Massachusetts	185	0.74	10.1	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,498	3.13	10.2	0	--	--	0	--	--
New Jersey	69	1.50	6.9	0	--	--	0	--	--
New York	24	1.94	7.4	0	--	--	0	--	--
Pennsylvania	1,405	3.24	10.4	0	--	--	0	--	--
East North Central	5,821	3.10	10.1	5,775	0.23	4.9	0	--	--
Illinois	670	3.84	21.5	2,999	0.21	4.8	0	--	--
Indiana	2,453	2.77	8.7	190	0.27	4.8	0	--	--
Michigan	176	2.49	7.5	911	0.25	5.2	0	--	--
Ohio	2,512	3.30	9.3	15	0.38	5.2	0	--	--
Wisconsin	10	2.69	8.1	1,660	0.25	5.1	0	--	--
West North Central	56	3.33	9.3	8,337	0.26	5.0	2,108	0.86	9.7
Iowa	32	3.40	7.2	1,449	0.24	4.8	0	--	--
Kansas	18	3.36	13.1	1,276	0.29	4.9	0	--	--
Minnesota	0	--	--	1,007	0.38	6.1	0	--	--
Missouri	6	2.87	8.6	3,179	0.21	4.7	0	--	--
Nebraska	0	--	--	1,268	0.28	5.3	0	--	--
North Dakota	0	--	--	37	0.32	4.1	2,108	0.86	9.7
South Dakota	0	--	--	121	0.35	5.1	0	--	--
South Atlantic	6,344	2.27	10.7	759	0.33	4.7	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	969	2.47	7.9	0	--	--	0	--	--
Georgia	353	2.02	9.2	759	0.33	4.7	0	--	--
Maryland	243	2.24	11.4	0	--	--	0	--	--
North Carolina	803	1.56	10.0	0	--	--	0	--	--
South Carolina	860	1.52	9.2	0	--	--	0	--	--
Virginia	651	1.23	14.1	0	--	--	0	--	--
West Virginia	2,464	2.98	11.8	0	--	--	0	--	--
East South Central	3,270	2.62	9.3	1,522	0.24	5.3	240	0.40	13.2
Alabama	468	1.40	10.3	719	0.22	5.3	0	--	--
Kentucky	2,305	2.97	9.4	535	0.28	5.6	0	--	--
Mississippi	42	2.29	9.0	14	0.23	5.4	240	0.40	13.2
Tennessee	455	2.15	7.6	254	0.19	4.6	0	--	--
West South Central	48	1.27	19.7	5,293	0.28	5.2	3,534	0.93	16.5
Arkansas	6	0.66	9.3	1,212	0.27	5.1	0	--	--
Louisiana	0	--	--	355	0.30	5.5	286	0.52	14.9
Oklahoma	43	1.36	21.3	665	0.28	5.2	0	--	--
Texas	0	--	--	3,062	0.29	5.3	3,248	0.97	16.6
Mountain	2,202	0.64	13.6	5,378	0.52	8.9	0	--	--
Arizona	478	0.63	10.8	792	0.71	10.8	0	--	--
Colorado	257	0.54	11.5	1,228	0.29	5.4	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	805	0.71	9.8	0	--	--
Nevada	60	0.54	10.0	43	0.27	5.6	0	--	--
New Mexico	461	0.80	23.7	425	0.74	21.4	0	--	--
Utah	946	0.60	11.5	5	0.58	10.0	0	--	--
Wyoming	0	--	--	2,080	0.48	7.5	0	--	--
Pacific Contiguous	32	0.53	10.5	441	0.36	7.4	0	--	--
California	32	0.53	10.5	0	--	--	0	--	--
Oregon	0	--	--	179	0.23	4.1	0	--	--
Washington	0	--	--	262	0.44	9.6	0	--	--
Pacific Noncontiguous	58	1.20	4.7	0	--	--	17	0.14	7.2
Alaska	0	--	--	0	--	--	17	0.14	7.2
Hawaii	58	1.20	4.7	0	--	--	0	--	--
U.S. Total	19,526	2.45	10.5	27,590	0.31	5.8	5,900	0.88	13.9

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

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

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

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, January 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	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	3,457	2.85	8.6	3,398	0.25	5.0	0	--	--
Illinois	105	3.54	10.1	665	0.21	4.7	0	--	--
Indiana	2,272	2.74	8.6	190	0.27	4.8	0	--	--
Michigan	170	2.55	7.5	911	0.25	5.2	0	--	--
Ohio	910	3.10	8.7	0	--	--	0	--	--
Wisconsin	1	1.49	7.1	1,633	0.25	5.1	0	--	--
West North Central	18	3.36	13.1	8,261	0.26	5.0	2,108	0.86	9.7
Iowa	0	--	--	1,372	0.24	4.8	0	--	--
Kansas	18	3.36	13.1	1,276	0.29	4.9	0	--	--
Minnesota	0	--	--	1,007	0.38	6.1	0	--	--
Missouri	0	--	--	3,179	0.21	4.7	0	--	--
Nebraska	0	--	--	1,268	0.28	5.3	0	--	--
North Dakota	0	--	--	37	0.32	4.1	2,108	0.86	9.7
South Dakota	0	--	--	121	0.35	5.1	0	--	--
South Atlantic	5,502	2.20	10.4	759	0.33	4.7	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	956	2.49	7.9	0	--	--	0	--	--
Georgia	338	2.05	9.3	759	0.33	4.7	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	803	1.56	10.0	0	--	--	0	--	--
South Carolina	843	1.54	9.2	0	--	--	0	--	--
Virginia	572	1.21	14.8	0	--	--	0	--	--
West Virginia	1,989	2.89	11.3	0	--	--	0	--	--
East South Central	3,153	2.70	9.4	1,522	0.24	5.3	0	--	--
Alabama	468	1.40	10.3	719	0.22	5.3	0	--	--
Kentucky	2,305	2.97	9.4	535	0.28	5.6	0	--	--
Mississippi	42	2.29	9.0	14	0.23	5.4	0	--	--
Tennessee	338	2.64	7.9	254	0.19	4.6	0	--	--
West South Central	0	--	--	3,247	0.27	5.2	937	1.01	19.0
Arkansas	0	--	--	982	0.26	5.1	0	--	--
Louisiana	0	--	--	257	0.29	5.4	286	0.52	14.9
Oklahoma	0	--	--	609	0.28	5.2	0	--	--
Texas	0	--	--	1,400	0.27	5.2	651	1.26	21.0
Mountain	2,202	0.64	13.6	4,530	0.50	8.8	0	--	--
Arizona	478	0.63	10.8	792	0.71	10.8	0	--	--
Colorado	257	0.54	11.5	1,228	0.29	5.4	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	60	0.54	10.0	0	--	--	0	--	--
New Mexico	461	0.80	23.7	425	0.74	21.4	0	--	--
Utah	946	0.60	11.5	5	0.58	10.0	0	--	--
Wyoming	0	--	--	2,080	0.48	7.5	0	--	--
Pacific Contiguous	0	--	--	179	0.23	4.1	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	179	0.23	4.1	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	17	0.14	7.2
Alaska	0	--	--	0	--	--	17	0.14	7.2
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	14,332	2.24	10.2	21,896	0.31	5.8	3,063	0.90	12.4

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

Notes:
Bituminous coal includes anthracite coal and coal-derived synthesis gas.
See Glossary for definitions. Values for 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, January 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	195	0.74	10.0	85	0.09	2.0	0	--	--
Connecticut	0	--	--	85	0.09	2.0	0	--	--
Maine	9	0.79	8.3	0	--	--	0	--	--
Massachusetts	185	0.74	10.1	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,461	3.16	10.2	0	--	--	0	--	--
New Jersey	69	1.50	6.9	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	1,393	3.24	10.4	0	--	--	0	--	--
East North Central	2,233	3.49	12.5	2,286	0.20	4.8	0	--	--
Illinois	474	4.01	28.3	2,270	0.20	4.8	0	--	--
Indiana	181	3.22	9.8	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	1,579	3.42	9.6	15	0.38	5.2	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	727	2.93	12.6	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	12	0.85	10.5	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	219	2.26	10.3	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	45	0.89	8.2	0	--	--	0	--	--
West Virginia	450	3.55	14.3	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	240	0.40	13.2
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	240	0.40	13.2
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	43	1.36	21.3	2,046	0.30	5.3	2,597	0.91	15.7
Arkansas	0	--	--	230	0.28	5.3	0	--	--
Louisiana	0	--	--	98	0.33	5.5	0	--	--
Oklahoma	43	1.36	21.3	56	0.27	5.0	0	--	--
Texas	0	--	--	1,662	0.31	5.3	2,597	0.91	15.7
Mountain	0	--	--	848	0.69	9.6	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	805	0.71	9.8	0	--	--
Nevada	0	--	--	43	0.27	5.6	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	262	0.44	9.6	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	262	0.44	9.6	0	--	--
Pacific Noncontiguous	58	1.20	4.7	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	58	1.20	4.7	0	--	--	0	--	--
U.S. Total	4,717	3.14	11.6	5,527	0.32	5.9	2,837	0.87	15.5

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, January 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	6	2.87	8.6	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	6	2.87	8.6	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	6	2.87	8.6	0	--	--	0	--	--

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

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

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

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

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	1	0.79	8.3	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	1	0.79	8.3	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	36	2.07	8.9	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	24	1.94	7.4	0	--	--	0	--	--
Pennsylvania	12	2.34	12.3	0	--	--	0	--	--
East North Central	131	3.16	8.3	91	0.37	5.4	0	--	--
Illinois	91	3.50	8.0	64	0.41	5.5	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	6	0.59	8.1	0	--	--	0	--	--
Ohio	24	2.76	9.6	0	--	--	0	--	--
Wisconsin	10	2.77	8.2	27	0.29	5.3	0	--	--
West North Central	32	3.40	7.2	76	0.22	4.4	0	--	--
Iowa	32	3.40	7.2	76	0.22	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	115	1.48	12.5	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	15	1.27	7.5	0	--	--	0	--	--
Maryland	25	2.02	22.0	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	18	0.73	7.1	0	--	--	0	--	--
Virginia	33	1.94	11.7	0	--	--	0	--	--
West Virginia	25	1.04	12.4	0	--	--	0	--	--
East South Central	117	0.84	6.8	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	117	0.84	6.8	0	--	--	0	--	--
West South Central	6	0.66	9.3	0	--	--	0	--	--
Arkansas	6	0.66	9.3	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	32	0.53	10.5	0	--	--	0	--	--
California	32	0.53	10.5	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	470	1.82	9.1	167	0.30	5.0	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 5.1. Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2006 - January 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	130,795	110,334	76,287	659	318,075
Year to Date					
2014	146,511	113,866	80,149	712	341,238
2015	137,531	110,941	77,242	670	326,384
2016	130,795	110,334	76,287	659	318,075
Rolling 12 Months Ending in January					
2015	1,398,228	1,349,233	994,669	7,716	3,749,846
2016	1,393,148	1,357,812	957,608	7,648	3,716,216

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 - January 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	15,703	11,010	4,895	62	31,670
Year to Date					
2014	17,075	11,790	5,596	78	34,539
2015	16,638	11,387	5,127	71	33,223
2016	15,703	11,010	4,895	62	31,670
Rolling 12 Months Ending in January					
2015	175,741	144,851	70,385	804	391,781
2016	176,433	143,515	65,856	770	386,574

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 - January 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	12.01	9.98	6.42	9.46	9.96
Year to Date					
2014	11.65	10.35	6.98	10.93	10.12
2015	12.10	10.26	6.64	10.62	10.18
2016	12.01	9.98	6.42	9.46	9.96
Rolling 12 Months Ending in January					
2015	12.57	10.74	7.08	10.42	10.45
2016	12.66	10.57	6.88	10.07	10.40

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, January 2016 and 2015 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	4,360	4,791	4,481	4,522	1,422	1,426	50	57	10,312	10,796
Connecticut	1,191	1,299	1,081	1,094	260	266	14	19	2,546	2,678
Maine	472	508	351	350	253	249	0	0	1,075	1,107
Massachusetts	1,790	1,998	2,197	2,207	572	572	34	35	4,593	4,812
New Hampshire	416	459	370	385	154	151	0	0	940	995
Rhode Island	281	300	311	310	61	65	2	2	654	677
Vermont	211	228	172	176	122	122	0	0	505	526
Middle Atlantic	12,018	13,300	13,193	13,436	5,891	5,871	331	332	31,434	32,940
New Jersey	2,402	2,733	3,124	3,251	554	597	26	27	6,105	6,609
New York	4,336	4,644	6,300	6,356	1,427	1,428	237	246	12,300	12,674
Pennsylvania	5,280	5,923	3,769	3,829	3,911	3,847	68	59	13,028	13,657
East North Central	18,131	19,245	15,550	15,889	15,138	15,655	51	59	48,870	50,847
Illinois	4,217	4,423	4,415	4,454	3,341	3,493	43	51	12,017	12,423
Indiana	3,325	3,625	1,998	2,083	3,584	3,774	2	2	8,909	9,485
Michigan	3,179	3,411	3,188	3,244	2,422	2,371	0	0	8,790	9,026
Ohio	5,242	5,616	3,938	4,068	3,886	4,067	5	5	13,071	13,756
Wisconsin	2,167	2,169	2,011	2,040	1,905	1,949	0	0	6,083	6,158
West North Central	10,587	10,934	8,665	8,850	6,799	7,134	4	5	26,056	26,924
Iowa	1,514	1,543	1,075	1,087	1,625	1,652	0	0	4,214	4,282
Kansas	1,254	1,297	1,252	1,268	868	868	0	0	3,374	3,433
Minnesota	2,195	2,254	1,970	2,036	1,634	1,766	2	3	5,801	6,058
Missouri	3,482	3,652	2,565	2,624	1,066	1,283	2	2	7,115	7,561
Nebraska	1,040	1,060	800	805	770	784	0	0	2,610	2,649
North Dakota	591	604	579	600	623	565	0	0	1,793	1,768
South Dakota	512	525	425	431	213	216	0	0	1,150	1,172
South Atlantic	32,871	34,686	25,324	24,977	11,153	11,366	130	123	69,478	71,152
Delaware	448	582	401	369	130	NM	0	0	979	1,157
District of Columbia	193	375	731	587	17	25	35	35	976	1,021
Florida	8,919	8,933	7,007	7,016	1,329	1,338	7	8	17,262	17,295
Georgia	5,308	5,537	3,798	3,837	2,597	2,614	15	16	11,717	12,003
Maryland	2,918	3,297	2,432	2,445	301	291	56	46	5,707	6,078
North Carolina	6,008	6,176	3,924	3,939	1,973	2,060	1	1	11,905	12,176
South Carolina	2,961	3,107	1,803	1,788	2,177	2,326	0	0	6,941	7,221
Virginia	4,686	5,202	4,480	4,269	1,519	1,327	17	18	10,702	10,815
West Virginia	1,430	1,478	748	727	1,110	1,181	0	0	3,288	3,386
East South Central	11,377	12,300	7,130	7,268	8,136	8,612	0	0	26,644	28,181
Alabama	3,095	3,256	1,794	1,859	2,782	2,883	0	0	7,671	7,999
Kentucky	2,794	2,926	1,602	1,610	2,279	2,539	0	0	6,675	7,075
Mississippi	1,623	1,768	1,042	1,061	1,342	1,351	0	0	4,007	4,180
Tennessee	3,865	4,350	2,692	2,738	1,734	1,839	0	0	8,292	8,927
West South Central	18,496	20,024	15,293	15,088	14,429	13,210	15	15	48,234	48,338
Arkansas	1,681	1,893	935	944	1,259	1,235	0	0	3,876	4,071
Louisiana	2,556	2,801	1,914	1,938	2,783	2,694	1	1	7,254	7,434
Oklahoma	2,178	2,262	1,524	1,540	1,397	1,393	0	0	5,098	5,195
Texas	12,081	13,069	10,920	10,666	8,991	7,889	14	14	32,006	31,638
Mountain	8,584	8,273	7,498	7,450	6,603	6,784	12	12	22,697	22,519
Arizona	2,525	2,354	2,154	2,201	1,229	1,163	0	1	5,909	5,718
Colorado	1,738	1,691	1,697	1,666	1,241	1,246	6	6	4,682	4,609
Idaho	933	913	544	533	503	505	0	0	1,980	1,951
Montana	566	572	437	448	353	353	0	0	1,355	1,372
Nevada	1,008	988	678	683	1,052	1,122	1	1	2,739	2,793
New Mexico	663	656	691	696	586	596	0	0	1,941	1,948
Utah	822	787	954	869	781	880	5	5	2,561	2,540
Wyoming	330	313	343	355	857	920	0	0	1,529	1,587
Pacific Contiguous	13,934	13,543	12,709	12,969	6,301	6,792	67	68	33,011	33,372
California	7,808	7,609	8,698	9,034	3,376	3,579	65	65	19,946	20,287
Oregon	2,130	2,005	1,398	1,352	874	959	2	2	4,403	4,318
Washington	3,996	3,929	2,613	2,583	2,052	2,254	1	0	8,662	8,766
Pacific Noncontiguous	438	435	490	491	413	391	0	0	1,340	1,317
Alaska	216	219	245	253	119	110	0	0	579	582
Hawaii	222	216	245	238	294	281	0	0	761	735
U.S. Total	130,795	137,531	110,334	110,941	76,287	77,242	659	670	318,075	326,384

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

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	4,360	4,791	4,481	4,522	1,422	1,426	50	57	10,312	10,796
Connecticut	1,191	1,299	1,081	1,094	260	266	14	19	2,546	2,678
Maine	472	508	351	350	253	249	0	0	1,075	1,107
Massachusetts	1,790	1,998	2,197	2,207	572	572	34	35	4,593	4,812
New Hampshire	416	459	370	385	154	151	0	0	940	995
Rhode Island	281	300	311	310	61	65	2	2	654	677
Vermont	211	228	172	176	122	122	0	0	505	526
Middle Atlantic	12,018	13,300	13,193	13,436	5,891	5,871	331	332	31,434	32,940
New Jersey	2,402	2,733	3,124	3,251	554	597	26	27	6,105	6,609
New York	4,336	4,644	6,300	6,356	1,427	1,428	237	246	12,300	12,674
Pennsylvania	5,280	5,923	3,769	3,829	3,911	3,847	68	59	13,028	13,657
East North Central	18,131	19,245	15,550	15,889	15,138	15,655	51	59	48,870	50,847
Illinois	4,217	4,423	4,415	4,454	3,341	3,493	43	51	12,017	12,423
Indiana	3,325	3,625	1,998	2,083	3,584	3,774	2	2	8,909	9,485
Michigan	3,179	3,411	3,188	3,244	2,422	2,371	0	0	8,790	9,026
Ohio	5,242	5,616	3,938	4,068	3,886	4,067	5	5	13,071	13,756
Wisconsin	2,167	2,169	2,011	2,040	1,905	1,949	0	0	6,083	6,158
West North Central	10,587	10,934	8,665	8,850	6,799	7,134	4	5	26,056	26,924
Iowa	1,514	1,543	1,075	1,087	1,625	1,652	0	0	4,214	4,282
Kansas	1,254	1,297	1,252	1,268	868	868	0	0	3,374	3,433
Minnesota	2,195	2,254	1,970	2,036	1,634	1,766	2	3	5,801	6,058
Missouri	3,482	3,652	2,565	2,624	1,066	1,283	2	2	7,115	7,561
Nebraska	1,040	1,060	800	805	770	784	0	0	2,610	2,649
North Dakota	591	604	579	600	623	565	0	0	1,793	1,768
South Dakota	512	525	425	431	213	216	0	0	1,150	1,172
South Atlantic	32,871	34,686	25,324	24,977	11,153	11,366	130	123	69,478	71,152
Delaware	448	582	401	369	130	NM	0	0	979	1,157
District of Columbia	193	375	731	587	17	25	35	35	976	1,021
Florida	8,919	8,933	7,007	7,016	1,329	1,338	7	8	17,262	17,295
Georgia	5,308	5,537	3,798	3,837	2,597	2,614	15	16	11,717	12,003
Maryland	2,918	3,297	2,432	2,445	301	291	56	46	5,707	6,078
North Carolina	6,008	6,176	3,924	3,939	1,973	2,060	1	1	11,905	12,176
South Carolina	2,961	3,107	1,803	1,788	2,177	2,326	0	0	6,941	7,221
Virginia	4,686	5,202	4,480	4,269	1,519	1,327	17	18	10,702	10,815
West Virginia	1,430	1,478	748	727	1,110	1,181	0	0	3,288	3,386
East South Central	11,377	12,300	7,130	7,268	8,136	8,612	0	0	26,644	28,181
Alabama	3,095	3,256	1,794	1,859	2,782	2,883	0	0	7,671	7,999
Kentucky	2,794	2,926	1,602	1,610	2,279	2,539	0	0	6,675	7,075
Mississippi	1,623	1,768	1,042	1,061	1,342	1,351	0	0	4,007	4,180
Tennessee	3,865	4,350	2,692	2,738	1,734	1,839	0	0	8,292	8,927
West South Central	18,496	20,024	15,293	15,088	14,429	13,210	15	15	48,234	48,338
Arkansas	1,681	1,893	935	944	1,259	1,235	0	0	3,876	4,071
Louisiana	2,556	2,801	1,914	1,938	2,783	2,694	1	1	7,254	7,434
Oklahoma	2,178	2,262	1,524	1,540	1,397	1,393	0	0	5,098	5,195
Texas	12,081	13,069	10,920	10,666	8,991	7,889	14	14	32,006	31,638
Mountain	8,584	8,273	7,498	7,450	6,603	6,784	12	12	22,697	22,519
Arizona	2,525	2,354	2,154	2,201	1,229	1,163	0	1	5,909	5,718
Colorado	1,738	1,691	1,697	1,666	1,241	1,246	6	6	4,682	4,609
Idaho	933	913	544	533	503	505	0	0	1,980	1,951
Montana	566	572	437	448	353	353	0	0	1,355	1,372
Nevada	1,008	988	678	683	1,052	1,122	1	1	2,739	2,793
New Mexico	663	656	691	696	586	596	0	0	1,941	1,948
Utah	822	787	954	869	781	880	5	5	2,561	2,540
Wyoming	330	313	343	355	857	920	0	0	1,529	1,587
Pacific Contiguous	13,934	13,543	12,709	12,969	6,301	6,792	67	68	33,011	33,372
California	7,808	7,609	8,698	9,034	3,376	3,579	65	65	19,946	20,287
Oregon	2,130	2,005	1,398	1,352	874	959	2	2	4,403	4,318
Washington	3,996	3,929	2,613	2,583	2,052	2,254	1	0	8,662	8,766
Pacific Noncontiguous	438	435	490	491	413	391	0	0	1,340	1,317
Alaska	216	219	245	253	119	110	0	0	579	582
Hawaii	222	216	245	238	294	281	0	0	761	735
U.S. Total	130,795	137,531	110,334	110,941	76,287	77,242	659	670	318,075	326,384

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	827	947	674	740	172	178	4	7	1,678	1,872
Connecticut	236	274	166	183	34	35	1	4	437	495
Maine	83	79	43	52	23	25	0	0	149	156
Massachusetts	346	415	338	365	75	75	2	3	762	858
New Hampshire	75	88	54	61	20	20	0	0	148	168
Rhode Island	52	53	49	56	9	10	0	0	110	119
Vermont	35	38	24	25	13	13	0	0	72	75
Middle Atlantic	1,821	2,088	1,553	1,684	411	419	37	42	3,822	4,232
New Jersey	371	423	371	389	55	61	3	3	800	877
New York	717	897	827	929	78	87	29	34	1,651	1,947
Pennsylvania	733	768	355	365	278	270	5	4	1,371	1,407
East North Central	2,221	2,334	1,473	1,518	1,020	1,049	4	4	4,718	4,906
Illinois	481	509	370	384	211	223	3	3	1,065	1,119
Indiana	348	386	184	201	233	254	0	0	766	840
Michigan	462	464	326	326	167	158	0	0	955	947
Ohio	632	678	378	392	266	271	0	1	1,276	1,341
Wisconsin	298	298	215	216	143	144	0	0	657	658
West North Central	1,090	1,102	754	753	445	455	0	0	2,289	2,310
Iowa	158	158	88	89	88	89	0	0	335	335
Kansas	149	147	124	121	64	64	0	0	338	332
Minnesota	263	259	187	185	114	118	0	0	564	562
Missouri	318	337	201	205	61	71	0	0	580	613
Nebraska	98	97	68	67	53	53	0	0	219	218
North Dakota	51	50	49	49	49	45	0	0	149	144
South Dakota	52	53	37	38	15	15	0	0	104	106
South Atlantic	3,709	3,902	2,379	2,376	711	745	10	11	6,810	7,033
Delaware	59	70	40	34	11	16	0	0	110	120
District of Columbia	25	45	85	72	2	2	3	3	115	122
Florida	1,034	1,065	672	695	107	111	1	1	1,813	1,872
Georgia	555	578	366	375	142	153	1	1	1,063	1,107
Maryland	410	431	266	271	24	27	4	4	703	733
North Carolina	627	651	337	333	122	129	0	0	1,085	1,113
South Carolina	347	366	178	177	127	139	0	0	653	682
Virginia	499	562	367	362	106	99	1	2	974	1,024
West Virginia	153	134	68	57	71	69	0	0	292	260
East South Central	1,170	1,265	709	734	453	489	0	0	2,332	2,488
Alabama	343	358	195	198	151	161	0	0	689	716
Kentucky	274	278	146	143	122	131	0	0	542	552
Mississippi	170	196	105	116	81	88	0	0	356	400
Tennessee	383	433	263	276	100	109	0	0	745	819
West South Central	1,873	2,115	1,168	1,211	729	756	1	1	3,770	4,083
Arkansas	150	165	73	72	70	70	0	0	294	307
Louisiana	218	247	160	171	138	148	0	0	516	566
Oklahoma	181	194	104	108	63	70	0	0	349	372
Texas	1,323	1,509	830	860	457	468	1	1	2,611	2,838
Mountain	925	921	662	687	380	410	1	1	1,968	2,019
Arizona	275	260	206	210	66	68	0	0	548	538
Colorado	191	193	143	153	81	83	1	1	415	429
Idaho	89	88	41	40	29	28	0	0	158	157
Montana	58	61	42	48	18	18	0	0	117	128
Nevada	115	125	55	64	52	66	0	0	223	256
New Mexico	76	80	66	71	33	37	0	0	175	188
Utah	87	81	78	69	45	50	0	0	210	200
Wyoming	34	32	31	31	56	60	0	0	122	123
Pacific Contiguous	1,967	1,852	1,532	1,566	497	535	6	5	4,001	3,958
California	1,387	1,326	1,194	1,251	355	385	5	5	2,941	2,966
Oregon	217	206	121	118	51	55	0	0	390	380
Washington	362	319	217	198	90	95	0	0	669	612
Pacific Noncontiguous	102	114	104	117	78	91	0	0	283	322
Alaska	42	42	43	44	16	16	0	0	101	102
Hawaii	60	71	61	74	61	75	0	0	182	220
U.S. Total	15,703	16,638	11,010	11,387	4,895	5,127	62	71	31,670	33,223

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

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	827	947	674	740	172	178	4	7	1,678	1,872
Connecticut	236	274	166	183	34	35	1	4	437	495
Maine	83	79	43	52	23	25	0	0	149	156
Massachusetts	346	415	338	365	75	75	2	3	762	858
New Hampshire	75	88	54	61	20	20	0	0	148	168
Rhode Island	52	53	49	56	9	10	0	0	110	119
Vermont	35	38	24	25	13	13	0	0	72	75
Middle Atlantic	1,821	2,088	1,553	1,684	411	419	37	42	3,822	4,232
New Jersey	371	423	371	389	55	61	3	3	800	877
New York	717	897	827	929	78	87	29	34	1,651	1,947
Pennsylvania	733	768	355	365	278	270	5	4	1,371	1,407
East North Central	2,221	2,334	1,473	1,518	1,020	1,049	4	4	4,718	4,906
Illinois	481	509	370	384	211	223	3	3	1,065	1,119
Indiana	348	386	184	201	233	254	0	0	766	840
Michigan	462	464	326	326	167	158	0	0	955	947
Ohio	632	678	378	392	266	271	0	1	1,276	1,341
Wisconsin	298	298	215	216	143	144	0	0	657	658
West North Central	1,090	1,102	754	753	445	455	0	0	2,289	2,310
Iowa	158	158	88	89	88	89	0	0	335	335
Kansas	149	147	124	121	64	64	0	0	338	332
Minnesota	263	259	187	185	114	118	0	0	564	562
Missouri	318	337	201	205	61	71	0	0	580	613
Nebraska	98	97	68	67	53	53	0	0	219	218
North Dakota	51	50	49	49	49	45	0	0	149	144
South Dakota	52	53	37	38	15	15	0	0	104	106
South Atlantic	3,709	3,902	2,379	2,376	711	745	10	11	6,810	7,033
Delaware	59	70	40	34	11	16	0	0	110	120
District of Columbia	25	45	85	72	2	2	3	3	115	122
Florida	1,034	1,065	672	695	107	111	1	1	1,813	1,872
Georgia	555	578	366	375	142	153	1	1	1,063	1,107
Maryland	410	431	266	271	24	27	4	4	703	733
North Carolina	627	651	337	333	122	129	0	0	1,085	1,113
South Carolina	347	366	178	177	127	139	0	0	653	682
Virginia	499	562	367	362	106	99	1	2	974	1,024
West Virginia	153	134	68	57	71	69	0	0	292	260
East South Central	1,170	1,265	709	734	453	489	0	0	2,332	2,488
Alabama	343	358	195	198	151	161	0	0	689	716
Kentucky	274	278	146	143	122	131	0	0	542	552
Mississippi	170	196	105	116	81	88	0	0	356	400
Tennessee	383	433	263	276	100	109	0	0	745	819
West South Central	1,873	2,115	1,168	1,211	729	756	1	1	3,770	4,083
Arkansas	150	165	73	72	70	70	0	0	294	307
Louisiana	218	247	160	171	138	148	0	0	516	566
Oklahoma	181	194	104	108	63	70	0	0	349	372
Texas	1,323	1,509	830	860	457	468	1	1	2,611	2,838
Mountain	925	921	662	687	380	410	1	1	1,968	2,019
Arizona	275	260	206	210	66	68	0	0	548	538
Colorado	191	193	143	153	81	83	1	1	415	429
Idaho	89	88	41	40	29	28	0	0	158	157
Montana	58	61	42	48	18	18	0	0	117	128
Nevada	115	125	55	64	52	66	0	0	223	256
New Mexico	76	80	66	71	33	37	0	0	175	188
Utah	87	81	78	69	45	50	0	0	210	200
Wyoming	34	32	31	31	56	60	0	0	122	123
Pacific Contiguous	1,967	1,852	1,532	1,566	497	535	6	5	4,001	3,958
California	1,387	1,326	1,194	1,251	355	385	5	5	2,941	2,966
Oregon	217	206	121	118	51	55	0	0	390	380
Washington	362	319	217	198	90	95	0	0	669	612
Pacific Noncontiguous	102	114	104	117	78	91	0	0	283	322
Alaska	42	42	43	44	16	16	0	0	101	102
Hawaii	60	71	61	74	61	75	0	0	182	220
U.S. Total	15,703	16,638	11,010	11,387	4,895	5,127	62	71	31,670	33,223

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

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

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	18.98	19.76	15.05	16.38	12.10	12.46	8.84	12.09	16.27	17.34
Connecticut	19.86	21.06	15.34	16.71	12.89	13.21	10.91	18.39	17.18	18.49
Maine	17.66	15.62	12.20	14.74	9.12	10.05	--	--	13.87	14.09
Massachusetts	19.34	20.78	15.40	16.53	13.05	13.16	7.39	8.33	16.59	17.84
New Hampshire	18.00	19.15	14.58	15.75	12.70	12.90	--	--	15.79	16.89
Rhode Island	18.41	17.73	15.76	18.00	14.14	15.38	18.23	17.57	16.75	17.63
Vermont	16.62	16.48	14.21	14.06	10.35	10.32	--	--	14.28	14.24
Middle Atlantic	15.15	15.70	11.77	12.53	6.98	7.13	11.05	12.53	12.16	12.85
New Jersey	15.45	15.49	11.87	11.98	9.98	10.26	10.10	12.43	13.10	13.28
New York	16.54	19.31	13.13	14.62	5.47	6.11	12.13	13.79	13.42	15.37
Pennsylvania	13.87	12.96	9.43	9.54	7.10	7.03	7.64	7.31	10.52	10.30
East North Central	12.25	12.13	9.48	9.56	6.74	6.70	6.92	7.13	9.66	9.65
Illinois	11.42	11.51	8.38	8.62	6.31	6.39	6.70	6.53	8.86	9.01
Indiana	10.47	10.64	9.23	9.63	6.51	6.72	9.52	9.66	8.60	8.86
Michigan	14.52	13.59	10.22	10.05	6.90	6.64	11.75	11.91	10.86	10.49
Ohio	12.05	12.07	9.59	9.63	6.84	6.66	7.40	11.73	9.76	9.75
Wisconsin	13.77	13.74	10.71	10.60	7.50	7.38	12.73	--	10.79	10.69
West North Central	10.29	10.07	8.71	8.50	6.54	6.38	8.87	8.15	8.78	8.58
Iowa	10.45	10.22	8.21	8.14	5.41	5.40	--	--	7.94	7.83
Kansas	11.91	11.34	9.93	9.53	7.37	7.36	--	--	10.01	9.67
Minnesota	11.99	11.51	9.50	9.07	6.95	6.68	10.50	9.55	9.72	9.28
Missouri	9.14	9.23	7.83	7.80	5.73	5.52	6.85	6.48	8.16	8.10
Nebraska	9.43	9.18	8.48	8.37	6.93	6.76	--	--	8.40	8.22
North Dakota	8.57	8.34	8.44	8.11	7.91	7.98	--	--	8.30	8.14
South Dakota	10.12	10.02	8.75	8.80	7.21	7.03	--	--	9.08	9.02
South Atlantic	11.28	11.25	9.40	9.51	6.37	6.56	7.74	8.64	9.80	9.88
Delaware	13.16	12.07	10.08	9.13	8.44	NM	--	--	11.27	10.38
District of Columbia	13.04	12.00	11.64	12.20	9.44	8.58	8.91	9.29	11.78	11.94
Florida	11.60	11.93	9.58	9.91	8.03	8.31	8.80	9.19	10.50	10.83
Georgia	10.45	10.43	9.65	9.78	5.46	5.86	4.61	5.38	9.08	9.22
Maryland	14.03	13.07	10.94	11.10	7.86	9.13	7.58	9.16	12.33	12.06
North Carolina	10.44	10.54	8.58	8.44	6.16	6.27	8.06	7.67	9.12	9.14
South Carolina	11.72	11.77	9.89	9.92	5.86	5.97	--	--	9.41	9.45
Virginia	10.66	10.80	8.19	8.48	6.97	7.45	8.11	8.75	9.10	9.47
West Virginia	10.68	9.06	9.06	7.81	6.43	5.86	--	--	8.88	7.68
East South Central	10.28	10.28	9.95	10.10	5.57	5.68	--	--	8.75	8.83
Alabama	11.08	10.99	10.90	10.63	5.43	5.58	--	--	8.99	8.95
Kentucky	9.80	9.50	9.09	8.90	5.35	5.15	--	--	8.11	7.80
Mississippi	10.49	11.06	10.05	10.97	6.02	6.54	--	--	8.88	9.58
Tennessee	9.90	9.96	9.78	10.10	5.74	5.94	--	--	8.99	9.18
West South Central	10.12	10.56	7.63	8.03	5.05	5.73	5.58	5.56	7.82	8.45
Arkansas	8.93	8.73	7.85	7.62	5.59	5.64	9.19	10.88	7.58	7.54
Louisiana	8.54	8.80	8.38	8.84	4.94	5.50	7.81	8.38	7.12	7.62
Oklahoma	8.33	8.56	6.84	7.03	4.53	5.06	--	--	6.84	7.17
Texas	10.95	11.55	7.60	8.06	5.09	5.93	5.41	5.33	8.16	8.97
Mountain	10.77	11.13	8.83	9.23	5.75	6.04	9.08	9.84	8.67	8.97
Arizona	10.90	11.05	9.59	9.53	5.38	5.84	8.24	8.07	9.27	9.40
Colorado	10.97	11.40	8.44	9.18	6.50	6.65	8.58	9.88	8.87	9.31
Idaho	9.55	9.66	7.44	7.59	5.70	5.64	--	--	8.00	8.05
Montana	10.20	10.74	9.51	10.83	4.98	5.19	--	--	8.62	9.34
Nevada	11.42	12.70	8.15	9.42	4.97	5.89	8.01	8.70	8.13	9.16
New Mexico	11.45	12.19	9.54	10.24	5.68	6.16	--	--	9.03	9.65
Utah	10.54	10.33	8.19	7.97	5.74	5.63	9.96	10.18	8.20	7.89
Wyoming	10.44	10.28	9.12	8.74	6.56	6.52	--	--	7.97	7.76
Pacific Contiguous	14.11	13.67	12.05	12.08	7.88	7.87	8.25	8.04	12.12	11.86
California	17.76	17.42	13.73	13.85	10.52	10.75	8.21	8.00	14.75	14.62
Oregon	10.20	10.30	8.67	8.72	5.88	5.75	9.15	9.14	8.86	8.79
Washington	9.07	8.13	8.29	7.66	4.40	4.20	9.39	8.27	7.73	6.98
Pacific Noncontiguous	23.23	26.17	21.17	23.87	18.78	23.23	--	--	21.11	24.44
Alaska	19.44	19.36	17.60	17.24	13.76	14.44	--	--	17.50	17.51
Hawaii	26.92	33.08	24.74	30.92	20.80	26.68	--	--	23.85	29.94
U.S. Total	12.01	12.10	9.98	10.26	6.42	6.64	9.46	10.62	9.96	10.18

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

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

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD	January 2016 YTD	January 2015 YTD
New England	18.98	19.76	15.05	16.38	12.10	12.46	8.84	12.09	16.27	17.34
Connecticut	19.86	21.06	15.34	16.71	12.89	13.21	10.91	18.39	17.18	18.49
Maine	17.66	15.62	12.20	14.74	9.12	10.05	--	--	13.87	14.09
Massachusetts	19.34	20.78	15.40	16.53	13.05	13.16	7.39	8.33	16.59	17.84
New Hampshire	18.00	19.15	14.58	15.75	12.70	12.90	--	--	15.79	16.89
Rhode Island	18.41	17.73	15.76	18.00	14.14	15.38	18.23	17.57	16.75	17.63
Vermont	16.62	16.48	14.21	14.06	10.35	10.32	--	--	14.28	14.24
Middle Atlantic	15.15	15.70	11.77	12.53	6.98	7.13	11.05	12.53	12.16	12.85
New Jersey	15.45	15.49	11.87	11.98	9.98	10.26	10.10	12.43	13.10	13.28
New York	16.54	19.31	13.13	14.62	5.47	6.11	12.13	13.79	13.42	15.37
Pennsylvania	13.87	12.96	9.43	9.54	7.10	7.03	7.64	7.31	10.52	10.30
East North Central	12.25	12.13	9.48	9.56	6.74	6.70	6.92	7.13	9.66	9.65
Illinois	11.42	11.51	8.38	8.62	6.31	6.39	6.70	6.53	8.86	9.01
Indiana	10.47	10.64	9.23	9.63	6.51	6.72	9.52	9.66	8.60	8.86
Michigan	14.52	13.59	10.22	10.05	6.90	6.64	11.75	11.91	10.86	10.49
Ohio	12.05	12.07	9.59	9.63	6.84	6.66	7.40	11.73	9.76	9.75
Wisconsin	13.77	13.74	10.71	10.60	7.50	7.38	12.73	--	10.79	10.69
West North Central	10.29	10.07	8.71	8.50	6.54	6.38	8.87	8.15	8.78	8.58
Iowa	10.45	10.22	8.21	8.14	5.41	5.40	--	--	7.94	7.83
Kansas	11.91	11.34	9.93	9.53	7.37	7.36	--	--	10.01	9.67
Minnesota	11.99	11.51	9.50	9.07	6.95	6.68	10.50	9.55	9.72	9.28
Missouri	9.14	9.23	7.83	7.80	5.73	5.52	6.85	6.48	8.16	8.10
Nebraska	9.43	9.18	8.48	8.37	6.93	6.76	--	--	8.40	8.22
North Dakota	8.57	8.34	8.44	8.11	7.91	7.98	--	--	8.30	8.14
South Dakota	10.12	10.02	8.75	8.80	7.21	7.03	--	--	9.08	9.02
South Atlantic	11.28	11.25	9.40	9.51	6.37	6.56	7.74	8.64	9.80	9.88
Delaware	13.16	12.07	10.08	9.13	8.44	NM	--	--	11.27	10.38
District of Columbia	13.04	12.00	11.64	12.20	9.44	8.58	8.91	9.29	11.78	11.94
Florida	11.60	11.93	9.58	9.91	8.03	8.31	8.80	9.19	10.50	10.83
Georgia	10.45	10.43	9.65	9.78	5.46	5.86	4.61	5.38	9.08	9.22
Maryland	14.03	13.07	10.94	11.10	7.86	9.13	7.58	9.16	12.33	12.06
North Carolina	10.44	10.54	8.58	8.44	6.16	6.27	8.06	7.67	9.12	9.14
South Carolina	11.72	11.77	9.89	9.92	5.86	5.97	--	--	9.41	9.45
Virginia	10.66	10.80	8.19	8.48	6.97	7.45	8.11	8.75	9.10	9.47
West Virginia	10.68	9.06	9.06	7.81	6.43	5.86	--	--	8.88	7.68
East South Central	10.28	10.28	9.95	10.10	5.57	5.68	--	--	8.75	8.83
Alabama	11.08	10.99	10.90	10.63	5.43	5.58	--	--	8.99	8.95
Kentucky	9.80	9.50	9.09	8.90	5.35	5.15	--	--	8.11	7.80
Mississippi	10.49	11.06	10.05	10.97	6.02	6.54	--	--	8.88	9.58
Tennessee	9.90	9.96	9.78	10.10	5.74	5.94	--	--	8.99	9.18
West South Central	10.12	10.56	7.63	8.03	5.05	5.73	5.58	5.56	7.82	8.45
Arkansas	8.93	8.73	7.85	7.62	5.59	5.64	9.19	10.88	7.58	7.54
Louisiana	8.54	8.80	8.38	8.84	4.94	5.50	7.81	8.38	7.12	7.62
Oklahoma	8.33	8.56	6.84	7.03	4.53	5.06	--	--	6.84	7.17
Texas	10.95	11.55	7.60	8.06	5.09	5.93	5.41	5.33	8.16	8.97
Mountain	10.77	11.13	8.83	9.23	5.75	6.04	9.08	9.84	8.67	8.97
Arizona	10.90	11.05	9.59	9.53	5.38	5.84	8.24	8.07	9.27	9.40
Colorado	10.97	11.40	8.44	9.18	6.50	6.65	8.58	9.88	8.87	9.31
Idaho	9.55	9.66	7.44	7.59	5.70	5.64	--	--	8.00	8.05
Montana	10.20	10.74	9.51	10.83	4.98	5.19	--	--	8.62	9.34
Nevada	11.42	12.70	8.15	9.42	4.97	5.89	8.01	8.70	8.13	9.16
New Mexico	11.45	12.19	9.54	10.24	5.68	6.16	--	--	9.03	9.65
Utah	10.54	10.33	8.19	7.97	5.74	5.63	9.96	10.18	8.20	7.89
Wyoming	10.44	10.28	9.12	8.74	6.56	6.52	--	--	7.97	7.76
Pacific Contiguous	14.11	13.67	12.05	12.08	7.88	7.87	8.25	8.04	12.12	11.86
California	17.76	17.42	13.73	13.85	10.52	10.75	8.21	8.00	14.75	14.62
Oregon	10.20	10.30	8.67	8.72	5.88	5.75	9.15	9.14	8.86	8.79
Washington	9.07	8.13	8.29	7.66	4.40	4.20	9.39	8.27	7.73	6.98
Pacific Noncontiguous	23.23	26.17	21.17	23.87	18.78	23.23	--	--	21.11	24.44
Alaska	19.44	19.36	17.60	17.24	13.76	14.44	--	--	17.50	17.51
Hawaii	26.92	33.08	24.74	30.92	20.80	26.68	--	--	23.85	29.94
U.S. Total	12.01	12.10	9.98	10.26	6.42	6.64	9.46	10.62	9.96	10.18

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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 5.7. Number of Ultimate Customers Served by Sector: 2008 - January 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	130,468,339	18,008,040	799,119	77	149,275,575
Rolling 12 Months Ending in January					
2015	128,774,928	17,865,057	836,578	78	147,476,640
2016	129,925,253	17,965,114	813,176	75	148,703,618

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:
January 2016 and 2015

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	6,275,466	6,258,471	868,090	872,118	26,089	26,422	6	7	7,169,651	7,157,018
Connecticut	1,475,698	1,469,444	150,133	159,078	4,352	4,724	3	3	1,630,186	1,633,249
Maine	721,508	705,034	95,047	90,676	3,083	3,006	0	0	819,638	798,716
Massachusetts	2,721,557	2,718,803	404,354	405,373	13,362	13,350	2	3	3,139,275	3,137,529
New Hampshire	605,085	615,641	105,519	106,261	3,221	3,294	0	0	713,825	725,196
Rhode Island	439,779	438,652	59,126	58,121	1,852	1,837	1	1	500,758	498,611
Vermont	311,839	310,897	53,911	52,609	219	211	0	0	365,969	363,717
Middle Atlantic	15,920,223	15,843,187	2,269,509	2,249,708	43,070	43,792	19	18	18,232,821	18,136,705
New Jersey	3,500,522	3,469,907	514,134	509,649	12,129	12,277	6	6	4,026,791	3,991,839
New York	7,097,213	7,070,688	1,061,547	1,048,681	7,555	7,700	7	6	8,166,322	8,127,075
Pennsylvania	5,322,488	5,302,592	693,828	691,378	23,386	23,815	6	6	6,039,708	6,017,791
East North Central	19,938,319	19,813,986	2,461,982	2,449,208	51,947	52,227	8	7	22,452,256	22,315,428
Illinois	5,231,655	5,167,734	605,485	600,339	5,512	5,527	3	3	5,842,655	5,773,603
Indiana	2,807,105	2,788,844	345,903	344,316	17,402	17,430	1	1	3,170,411	3,150,591
Michigan	4,316,933	4,294,419	540,086	535,883	5,605	5,619	1	1	4,862,625	4,835,922
Ohio	4,911,777	4,905,715	618,201	617,880	18,806	18,989	2	2	5,548,786	5,542,586
Wisconsin	2,670,849	2,657,274	352,307	350,790	4,622	4,662	1	0	3,027,779	3,012,726
West North Central	9,317,149	9,277,562	1,424,609	1,412,602	111,267	111,074	2	2	10,853,027	10,801,240
Iowa	1,364,155	1,359,408	236,505	228,089	6,702	6,665	0	0	1,607,362	1,594,162
Kansas	1,250,719	1,240,945	231,953	228,619	25,320	25,343	0	0	1,507,992	1,494,907
Minnesota	2,346,952	2,364,443	283,287	288,001	7,863	8,074	1	1	2,638,103	2,660,519
Missouri	2,755,727	2,736,023	373,639	371,007	8,379	8,497	1	1	3,137,746	3,115,528
Nebraska	836,615	827,770	156,840	155,829	52,453	52,341	0	0	1,045,908	1,035,940
North Dakota	371,935	361,884	71,056	69,109	7,677	7,331	0	0	450,668	438,324
South Dakota	391,046	387,089	71,329	71,948	2,873	2,823	0	0	465,248	461,860
South Atlantic	27,008,049	26,601,506	3,703,784	3,643,472	77,706	77,308	11	11	30,789,550	30,322,297
Delaware	416,239	405,110	52,377	51,236	1,129	1,149	0	0	469,745	457,495
District of Columbia	256,960	236,258	25,911	23,408	1	1	1	1	282,873	259,668
Florida	8,993,863	8,844,116	1,194,526	1,177,229	20,092	19,238	2	2	10,208,483	10,040,585
Georgia	4,233,784	4,182,770	571,061	563,246	17,746	17,729	1	1	4,822,592	4,763,746
Maryland	2,283,361	2,216,475	250,037	243,733	8,793	8,771	5	5	2,542,196	2,468,984
North Carolina	4,405,431	4,355,977	682,073	666,497	9,995	10,068	1	1	5,097,500	5,032,543
South Carolina	2,205,648	2,175,123	356,188	351,357	4,402	4,497	0	0	2,566,238	2,530,977
Virginia	3,350,927	3,321,551	429,652	425,323	3,756	3,756	1	1	3,784,336	3,750,631
West Virginia	861,836	864,126	141,959	141,443	11,792	12,099	0	0	1,015,587	1,017,668
East South Central	8,259,493	8,193,270	1,368,625	1,355,681	24,957	24,820	0	0	9,653,075	9,573,771
Alabama	2,207,196	2,189,803	364,491	361,073	8,094	8,065	0	0	2,579,781	2,558,941
Kentucky	1,964,121	1,952,599	296,238	293,997	7,938	7,838	0	0	2,268,297	2,254,434
Mississippi	1,287,510	1,277,331	234,335	231,876	7,521	7,481	0	0	1,529,366	1,516,688
Tennessee	2,800,666	2,773,537	473,561	468,735	1,404	1,436	0	0	3,275,631	3,243,708
West South Central	15,543,824	15,264,962	2,188,738	2,186,329	185,221	176,742	6	6	17,917,789	17,628,039
Arkansas	1,362,850	1,354,505	187,932	185,447	34,959	34,701	2	2	1,585,743	1,574,655
Louisiana	2,031,870	2,034,073	286,912	285,576	18,239	18,436	1	1	2,337,022	2,338,086
Oklahoma	1,740,623	1,723,289	279,405	275,451	17,886	18,216	0	0	2,037,914	2,016,956
Texas	10,408,481	10,153,095	1,434,489	1,439,855	114,137	105,389	3	3	11,957,110	11,698,342
Mountain	9,496,696	9,344,834	1,355,972	1,346,069	84,393	83,600	4	4	10,937,065	10,774,507
Arizona	2,726,303	2,684,859	314,270	311,445	6,544	6,559	1	1	3,047,118	3,002,864
Colorado	2,243,474	2,211,607	353,678	351,902	13,770	13,592	1	1	2,610,923	2,577,102
Idaho	707,696	696,884	106,338	104,531	27,598	27,088	0	0	841,632	828,503
Montana	496,166	489,780	106,435	105,064	5,950	5,818	0	0	608,551	600,662
Nevada	1,138,922	1,115,170	160,393	162,565	NM	3,107	1	1	1,302,385	1,280,843
New Mexico	889,217	878,172	137,327	136,452	8,454	8,382	0	0	1,034,998	1,023,006
Utah	1,025,262	1,001,034	119,408	115,671	9,423	9,578	1	1	1,154,094	1,126,284
Wyoming	269,656	267,328	58,123	58,439	9,585	9,476	0	0	337,364	335,243
Pacific Contiguous	17,995,808	17,909,483	2,255,050	2,264,378	192,350	195,508	21	20	20,443,229	20,369,389
California	13,360,123	13,311,036	1,648,699	1,665,511	142,568	145,603	13	12	15,151,403	15,122,162
Oregon	1,705,902	1,685,919	233,634	231,130	22,199	22,064	2	2	1,961,737	1,939,115
Washington	2,929,783	2,912,528	372,717	367,737	27,583	27,841	6	6	3,330,089	3,308,112
Pacific Noncontiguous	713,312	708,390	111,681	111,269	2,119	2,013	0	0	827,112	821,672
Alaska	284,167	281,062	50,721	50,253	NM	NM	0	0	336,220	332,606
Hawaii	429,145	427,328	60,960	61,016	787	722	0	0	490,892	489,066
U.S. Total	130,468,339	129,215,651	18,008,040	17,890,834	799,119	793,506	77	75	149,275,575	147,900,066

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), December 2015 to January 2016

		As of End of December 2015	Activity During January 2016 as Reported to EIA		As of End of January 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*	*72,577.9*	*536.0*	*25.7*	*73,088.2*	*510.3*	*510.3*	*8,150.6*	*298.0*	*5,564.1*	*0.0*	*0.0*	*298.0*	*5,564.1*	*73,386.2*	*78,652.3*
..... *Offshore Wind (Summer Capacity)*	*Utility Scale Facilities*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*29.3*	*0.0*	*0.0*	*0.0*	*29.3*	*0.0*	*29.3*
..... Wind (Summer Capacity)	Utility Scale Facilities	72,577.9	536.0	25.7	73,088.2	510.3	510.3	8,150.6	298.0	5,593.4	0.0	0.0	298.0	5,593.4	73,386.2	78,681.6
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*11,629.7*	*213.3*	*11.4*	*11,831.6*	*201.9*	*201.9*	*3,012.9*	*316.7*	*8,590.6*	*0.0*	*0.0*	*316.7*	*8,590.6*	*12,148.3*	*20,422.2*
..... *Solar Thermal without Energy Storage*	*Utility Scale Facilities*	*1,371.3*	*0.0*	*43.8*	*1,327.5*	*-43.8*	*-43.8*	*-43.8*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*1,327.5*	*1,327.5*
..... *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	13,406.4	213.3	55.2	13,564.5	158.1	158.1	3,079.1	316.7	8,590.6	0.0	0.0	316.7	8,590.6	13,881.2	22,155.1
..... Conventional Hydroelectric	Utility Scale Facilities	79,741.7	52.7	27.4	79,767.0	25.3	25.3	89.7	89.6	401.6	0.0	16.7	89.6	384.9	79,856.6	80,151.9
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,554.4*	*31.8*	*34.7*	*8,551.5*	*-2.9*	*-2.9*	*56.3*	*0.0*	*63.5*	*0.0*	*13.5*	*0.0*	*50.0*	*8,551.5*	*8,601.5*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,117.6*	*10.5*	*0.0*	*2,128.1*	*10.5*	*10.5*	*9.1*	*23.8*	*56.9*	*0.0*	*10.0*	*23.8*	*46.9*	*2,151.9*	*2,175.0*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,253.9*	*0.5*	*0.0*	*2,254.4*	*0.5*	*0.5*	*21.1*	*0.0*	*0.0*	*0.0*	*2.0*	*0.0*	*-2.0*	*2,254.4*	*2,252.4*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*838.5*	*9.7*	*3.3*	*844.9*	*6.4*	*6.4*	*20.7*	*0.0*	*20.6*	*0.0*	*1.2*	*0.0*	*19.4*	*844.9*	*864.3*
..... Biomass Sources Subtotal	Utility Scale Facilities	13,764.4	52.5	38.0	13,778.9	14.5	14.5	107.2	23.8	141.0	0.0	26.7	23.8	114.3	13,802.7	13,893.2
..... Geothermal	Utility Scale Facilities	2,530.2	0.1	0.0	2,530.3	0.1	0.1	15.9	0.0	0.0	0.0	0.0	0.0	0.0	2,530.3	2,530.3
... Renewable Sources Subtotal	***Utility Scale Facilities***	***182,020.6***	***854.6***	***146.3***	***182,728.9***	***708.3***	***708.3***	***11,442.5***	***728.1***	***14,726.6***	***0.0***	***43.4***	***728.1***	***14,683.2***	***183,457.0***	***197,412.1***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*234,354.3*	*1,143.8*	*751.0*	*234,747.1*	*392.8*	*392.8*	*5,013.3*	*0.0*	*6,730.0*	*0.0*	*95.0*	*0.0*	*6,635.0*	*234,747.1*	*241,382.1*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*124,820.2*	*377.4*	*815.6*	*124,382.0*	*-438.2*	*-438.2*	*-606.2*	*0.0*	*2,039.7*	*15.0*	*128.0*	*-15.0*	*1,911.7*	*124,367.0*	*126,293.7*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*75,751.6*	*2,732.6*	*87.7*	*78,396.5*	*2,644.9*	*2,644.9*	*2,148.6*	*0.0*	*0.0*	*5.0*	*200.7*	*-5.0*	*-200.7*	*78,391.5*	*78,195.8*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*3,581.4*	*7.8*	*14.2*	*3,575.0*	*-6.4*	*-6.4*	*203.1*	*48.7*	*669.0*	*0.9*	*4.2*	*47.8*	*664.8*	*3,622.8*	*4,239.8*
..... *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*	*106.0*	*0.0*	*0.0*	*106.0*	*0.0*	*0.0*	*5.5*	*2.5*	*2.5*	*0.0*	*0.0*	*2.5*	*2.5*	*108.5*	*108.5*
..... Natural Gas Subtotal	Utility Scale Facilities	438,723.5	4,261.6	1,668.5	441,316.6	2,593.1	2,593.1	6,764.3	51.2	9,441.2	20.9	427.9	30.3	9,013.3	441,346.9	450,329.9
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*283,710.7*	*53.7*	*2,454.4*	*281,310.0*	*-2,400.7*	*-2,400.7*	*-16,354.3*	*0.0*	*62.2*	*438.5*	*5,913.5*	*-438.5*	*-5,851.3*	*280,871.5*	*275,458.7*
..... *Coal Integrated Gasification Combined Cycle*	*Utility Scale Facilities*	*791.0*	*0.0*	*0.0*	*791.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*791.0*	*791.0*
..... Coal Subtotal	Utility Scale Facilities	284,501.7	53.7	2,454.4	282,101.0	-2,400.7	-2,400.7	-16,354.3	0.0	62.2	438.5	5,913.5	-438.5	-5,851.3	281,662.5	276,249.7
..... Petroleum Coke	Utility Scale Facilities	2,190.2	0.0	0.0	2,190.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,190.2	2,190.2
..... Petroleum Liquids	Utility Scale Facilities	36,797.3	73.2	549.6	36,320.9	-476.4	-476.4	-1,420.6	7.8	50.3	51.7	155.7	-43.9	-105.4	36,277.0	36,215.5
..... Other Gases	Utility Scale Facilities	1,914.3	0.0	0.0	1,914.3	0.0	0.0	0.0	30.0	30.0	0.0	3.2	30.0	26.8	1,944.3	1,941.1
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***764,127.0***	***4,388.5***	***4,672.5***	***763,843.0***	***-284.0***	***-284.0***	***-11,010.6***	***89.0***	***9,583.7***	***511.1***	***6,500.3***	***-422.1***	***3,083.4***	***763,420.9***	***766,926.4***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,558.1	0.0	0.0	22,558.1	0.0	0.0	73.0	22.0	152.0	0.0	0.0	22.0	152.0	22,580.1	22,710.1
..... Flywheels	Utility Scale Facilities	43.0	0.0	1.0	42.0	-1.0	-1.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0
..... Batteries	Utility Scale Facilities	245.7	0.0	0.0	245.7	0.0	0.0	87.6	8.0	75.6	0.0	0.0	8.0	75.6	253.7	321.3
... Energy Storage Subtotal	***Utility Scale Facilities***	***22,846.8***	***0.0***	***1.0***	***22,845.8***	***-1.0***	***-1.0***	***159.6***	***30.0***	***227.6***	***0.0***	***0.0***	***30.0***	***227.6***	***22,875.8***	***23,073.4***
... Nuclear	***Utility Scale Facilities***	***98,729.0***	***29.3***	***51.5***	***98,706.8***	***-22.2***	***-22.2***	***116.6***	***0.0***	***1,122.0***	***0.0***	***0.0***	***0.0***	***1,122.0***	***98,706.8***	***99,828.8***
... All Other	***Utility Scale Facilities***	***1,608.8***	***145.4***	***106.1***	***1,648.1***	***39.3***	***39.3***	***53.3***	***0.0***	***15.0***	***0.0***	***0.0***	***0.0***	***15.0***	***1,648.1***	***1,663.1***
TOTAL	**UTILITY SCALE FACILITIES**	**1,069,332.2**	**5,417.8**	**4,977.4**	**1,069,772.6**	**440.4**	**440.4**	**761.4**	**847.1**	**25,674.9**	**511.1**	**6,543.7**	**336.0**	**19,131.2**	**1,070,108.6**	**1,088,903.8**
..... *Estimated Distributed Solar Photovoltaic*	*Distributed Facilities*	*8,379.1*			*8,586.5*	*207.4*	*207.4*	*2,196.7*								
..... Estimated Total Solar Photovoltaic	All Facilities	20,008.8			20,418.1	409.3	409.3	5,209.6								
... Estimated Total Solar	***All Facilities***	***21,785.5***			***22,151.0***	***365.5***	***365.5***	***5,275.8***								

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 - January 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	8,586.5	20,418.1

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 - January 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	4,528.7	3,336.8	721.1	8,586.5

Values are preliminary.

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

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

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	4,807.5	4,594.7	22,898.0	22,815.8	1,775.4	1,775.4	2.0	3.0	4,046.3	4,046.3	102.2	52.9	33,631.4	33,288.1
Connecticut	331.4	339.8	6,315.4	6,266.4	29.4	29.4	0.0	0.0	2,122.5	2,122.5	26.0	30.9	8,824.7	8,789.0
Maine	1,973.5	1,795.4	2,644.5	2,653.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	22.0	4,640.0	4,470.4
Massachusetts	953.8	923.8	9,776.2	9,800.4	1,746.0	1,746.0	2.0	3.0	677.6	677.6	54.2	0.0	13,209.8	13,150.8
New Hampshire	934.3	935.4	2,270.9	2,236.7	0.0	0.0	0.0	0.0	1,246.2	1,246.2	0.0	0.0	4,451.4	4,418.3
Rhode Island	51.3	50.3	1,791.3	1,759.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,842.6	1,810.1
Vermont	563.2	550.0	99.7	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	662.9	649.5
Middle Atlantic	10,593.7	10,575.4	69,063.7	69,348.8	3,409.1	3,409.1	40.0	40.0	19,271.3	19,182.5	11.2	11.2	102,389.0	102,567.0
New Jersey	687.2	668.6	14,036.1	14,211.4	420.0	420.0	0.0	0.0	4,107.9	4,110.1	11.2	11.2	19,262.4	19,421.3
New York	7,057.3	7,047.2	26,498.6	26,518.5	1,406.1	1,406.1	20.0	20.0	5,418.4	5,431.4	0.0	0.0	40,400.4	40,423.2
Pennsylvania	2,849.2	2,859.6	28,529.0	28,618.9	1,583.0	1,583.0	20.0	20.0	9,745.0	9,641.0	0.0	0.0	42,726.2	42,722.5
East North Central	10,158.1	9,708.1	116,642.5	120,818.2	1,945.0	1,872.0	100.6	27.5	18,901.6	18,873.3	109.1	109.1	147,856.9	151,408.2
Illinois	3,981.0	3,717.9	29,892.6	29,443.1	0.0	0.0	72.6	1.5	11,589.6	11,564.1	0.0	0.0	45,535.8	44,726.6
Indiana	2,146.3	1,969.0	24,240.0	25,445.0	0.0	0.0	0.0	0.0	0.0	0.0	88.0	88.0	26,474.3	27,502.0
Michigan	2,157.6	2,146.7	22,111.3	22,437.0	1,945.0	1,872.0	0.0	0.0	3,982.0	3,982.0	0.0	0.0	30,195.9	30,437.7
Ohio	715.6	717.0	26,036.7	28,702.2	0.0	0.0	28.0	26.0	2,134.0	2,134.0	0.0	0.0	28,914.3	31,579.2
Wisconsin	1,157.6	1,157.5	14,361.9	14,790.9	0.0	0.0	0.0	0.0	1,196.0	1,193.2	21.1	21.1	16,736.6	17,162.7
West North Central	21,186.7	19,060.5	61,557.0	62,393.9	657.0	657.0	2.0	2.0	5,805.5	5,806.0	24.5	24.5	89,232.7	87,943.9
Iowa	6,397.1	5,747.5	10,063.1	10,177.2	0.0	0.0	0.0	0.0	601.4	601.4	0.0	0.0	17,061.6	16,526.1
Kansas	3,793.5	2,990.9	9,945.6	10,060.8	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	14,914.9	14,227.5
Minnesota	3,658.7	3,423.9	10,155.4	10,596.8	0.0	0.0	1.0	1.0	1,594.0	1,594.0	18.4	18.4	15,427.5	15,634.1
Missouri	1,054.6	1,050.8	18,885.9	18,898.8	657.0	657.0	1.0	1.0	1,193.0	1,193.0	0.0	0.0	21,791.5	21,800.6
Nebraska	1,105.5	1,105.4	6,231.1	6,384.4	0.0	0.0	0.0	0.0	1,242.1	1,242.6	0.0	0.0	8,578.7	8,732.4
North Dakota	2,741.5	2,484.0	4,585.6	4,585.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	7,332.4	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	14,092.1	12,968.8	158,385.3	162,402.7	7,905.2	7,905.2	45.0	34.0	24,559.1	24,559.1	586.7	586.7	205,573.4	208,456.5
Delaware	44.9	43.7	3,354.4	3,042.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,399.3	3,086.1
District of Columbia	9.9	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.9	9.0
Florida	1,355.7	1,310.5	53,761.2	54,068.8	0.0	0.0	0.0	0.0	3,572.0	3,572.0	488.7	488.7	59,177.6	59,440.0
Georgia	3,129.3	2,934.3	27,150.4	29,437.1	1,862.2	1,862.2	0.0	0.0	4,061.0	4,061.0	44.0	44.0	36,246.9	38,338.6
Maryland	1,004.3	955.5	9,683.2	9,600.4	0.0	0.0	11.0	0.0	1,707.8	1,707.8	0.0	0.0	12,406.3	12,263.7
North Carolina	4,106.8	3,309.1	21,973.8	21,973.4	86.0	86.0	0.0	0.0	5,094.1	5,094.1	54.0	54.0	31,314.7	30,516.6
South Carolina	1,783.0	1,779.5	11,687.2	11,772.3	2,716.0	2,716.0	0.0	0.0	6,556.2	6,556.2	0.0	0.0	22,742.4	22,824.0
Virginia	1,750.2	1,750.2	16,602.8	17,143.4	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	0.0	25,162.0	25,702.6
West Virginia	908.0	886.0	14,163.3	15,355.9	0.0	0.0	34.0	34.0	0.0	0.0	0.0	0.0	15,105.3	16,275.9
East South Central	7,983.7	7,953.8	68,176.1	70,474.3	1,616.3	1,616.3	0.0	0.0	9,875.6	9,875.6	1.4	1.4	87,653.1	89,921.4
Alabama	3,876.3	3,886.9	22,328.0	23,000.0	0.0	0.0	0.0	0.0	5,066.4	5,066.4	0.0	0.0	31,270.7	31,953.3
Kentucky	943.6	905.6	19,280.5	19,974.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,224.1	20,879.8
Mississippi	274.7	274.7	14,253.7	14,405.7	0.0	0.0	0.0	0.0	1,408.5	1,408.5	1.4	1.4	15,938.3	16,090.3
Tennessee	2,889.1	2,886.6	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	20,998.0
West South Central	27,372.8	22,695.4	147,855.4	146,299.2	288.0	288.0	36.0	36.0	8,912.4	8,912.4	513.2	499.2	184,977.8	178,730.2
Arkansas	1,645.4	1,632.0	11,270.5	11,274.0	28.0	28.0	0.0	0.0	1,819.6	1,819.6	0.0	0.0	14,763.5	14,753.6
Louisiana	642.1	642.1	23,513.4	23,605.8	0.0	0.0	0.0	0.0	2,132.8	2,132.8	275.8	275.8	26,564.1	26,656.5
Oklahoma	5,943.3	4,718.9	19,251.8	19,069.3	260.0	260.0	0.0	0.0	0.0	0.0	0.0	0.0	25,455.1	24,048.2
Texas	19,142.0	15,702.4	93,819.7	92,350.1	0.0	0.0	36.0	36.0	4,960.0	4,960.0	237.4	223.4	118,195.1	113,271.9
Mountain	22,218.1	20,812.7	64,053.6	64,264.2	778.8	778.8	2.6	2.6	3,937.0	3,937.0	111.4	111.4	91,101.5	89,906.7
Arizona	4,542.6	4,401.2	19,414.4	19,694.4	216.3	216.3	0.0	0.0	3,937.0	3,937.0	0.0	0.0	28,110.3	28,248.9
Colorado	3,833.1	3,396.8	11,362.4	10,986.2	562.5	562.5	0.0	0.0	0.0	0.0	9.3	9.3	15,767.3	14,954.8
Idaho	3,774.7	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	4,947.0	4,943.8
Montana	3,398.7	3,397.8	2,722.2	2,892.7	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,164.9	6,334.5
Nevada	2,653.2	2,301.6	8,258.7	8,258.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,911.9	10,560.3
New Mexico	1,469.2	1,157.7	6,936.1	6,920.8	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,407.9	8,081.1
Utah	832.2	667.1	7,458.6	7,626.4	0.0	0.0	0.0	0.0	0.0	0.0	31.8	31.8	8,322.6	8,325.3
Wyoming	1,714.4	1,714.4	6,743.7	6,732.1	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,469.6	8,458.0
Pacific Contiguous	63,234.7	61,856.6	51,106.0	52,030.0	4,183.3	4,183.3	11.5	8.0	3,398.0	3,398.0	161.8	171.8	122,095.3	121,647.7
California	26,505.3	25,165.3	42,453.5	43,377.5	3,869.3	3,869.3	10.5	8.0	2,240.0	2,240.0	121.0	121.0	75,199.6	74,781.1
Oregon	12,043.6	12,037.0	3,859.6	3,859.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,903.2	15,896.6
Washington	24,685.8	24,654.3	4,792.9	4,792.9	314.0	314.0	1.0	0.0	1,158.0	1,158.0	40.8	50.8	30,992.5	30,970.0
Pacific Noncontiguous	1,081.5	1,060.4	4,105.4	4,006.5	0.0	0.0	48.0	48.0	0.0	0.0	26.6	26.6	5,261.5	5,141.5
Alaska	508.3	507.5	2,048.2	1,934.5	0.0	0.0	27.0	27.0	0.0	0.0	0.0	0.0	2,583.5	2,469.0
Hawaii	573.2	552.9	2,057.2	2,072.0	0.0	0.0	21.0	21.0	0.0	0.0	26.6	26.6	2,678.0	2,672.5
U.S. Total	182,728.9	171,286.4	763,843.0	774,853.6	22,558.1	22,485.1	287.7	201.1	98,706.8	98,590.2	1,648.1	1,594.8	1,069,772.6	1,069,011.2

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, January 2016 and 2015 (Megawatts)

	Summer Capacity at Utility Scale Facilities														Distributed Capacity		Summer Capacity From Utility Scale Facilities and Distributed Capacity			
Census Division and State	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	
	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	1,002.5	808.2	372.6	342.0	0.0	0.0	1,962.1	1,965.8	1,470.3	1,478.7	0.0	0.0	4,807.5	4,594.7	794.0	578.4	1,166.6	920.4	1,166.6	920.4
Connecticut	0.0	0.0	10.0	10.0	0.0	0.0	122.2	122.2	199.2	207.6	0.0	0.0	331.4	339.8	156.0	91.4	166.0	101.4	166.0	101.4
Maine	612.8	430.6	0.0	0.0	0.0	0.0	728.9	733.0	631.8	631.8	0.0	0.0	1,973.5	1,795.4	11.2	9.0	11.2	9.0	11.2	9.0
Massachusetts	82.6	82.6	324.5	294.9	0.0	0.0	263.4	263.0	283.3	283.3	0.0	0.0	953.8	923.8	541.2	430.6	865.7	725.5	865.7	725.5
New Hampshire	183.1	171.0	0.0	0.0	0.0	0.0	508.1	521.3	243.1	243.1	0.0	0.0	934.3	935.4	24.1	11.1	24.1	11.1	24.1	11.1
Rhode Island	3.8	3.8	7.9	6.9	0.0	0.0	2.7	2.7	36.9	36.9	0.0	0.0	51.3	50.3	10.4	7.9	18.3	14.8	18.3	14.8
Vermont	120.2	120.2	30.2	30.2	0.0	0.0	336.8	323.6	76.0	76.0	0.0	0.0	563.2	550.0	51.0	28.4	81.2	58.6	81.2	58.6
Middle Atlantic	3,088.1	3,098.5	541.3	512.3	0.0	0.0	5,618.8	5,618.8	1,345.5	1,345.8	0.0	0.0	10,593.7	10,575.4	1,427.4	1,169.4	1,968.7	1,681.7	1,968.7	1,681.7
New Jersey	7.6	7.6	436.2	417.9	0.0	0.0	12.3	12.3	231.1	230.8	0.0	0.0	687.2	668.6	828.5	746.4	1,264.7	1,164.3	1,264.7	1,164.3
New York	1,747.0	1,747.0	63.0	52.3	0.0	0.0	4,713.1	4,713.1	534.2	534.8	0.0	0.0	7,057.3	7,047.2	443.5	279.0	506.5	331.3	506.5	331.3
Pennsylvania	1,333.5	1,343.9	42.1	42.1	0.0	0.0	893.4	893.4	580.2	580.2	0.0	0.0	2,849.2	2,859.6	155.4	144.0	197.5	186.1	197.5	186.1
East North Central	7,814.5	7,382.4	199.1	164.6	0.0	0.0	918.2	918.2	1,226.3	1,242.9	0.0	0.0	10,158.1	9,708.1	140.5	120.3	339.6	284.9	339.6	284.9
Illinois	3,799.8	3,526.8	32.8	31.9	0.0	0.0	34.1	34.1	114.3	125.1	0.0	0.0	3,981.0	3,717.9	17.0	15.0	49.8	46.9	49.8	46.9
Indiana	1,889.7	1,739.7	121.7	94.1	0.0	0.0	60.4	60.4	74.5	74.8	0.0	0.0	2,146.3	1,969.0	11.1	7.3	132.8	101.4	132.8	101.4
Michigan	1,360.1	1,360.1	3.9	0.0	0.0	0.0	333.1	333.1	460.5	453.5	0.0	0.0	2,157.6	2,146.7	27.9	25.5	31.8	25.5	31.8	25.5
Ohio	433.1	424.1	39.7	37.6	0.0	0.0	101.9	101.9	140.9	153.4	0.0	0.0	715.6	717.0	63.5	54.7	103.2	92.3	103.2	92.3
Wisconsin	331.8	331.7	1.0	1.0	0.0	0.0	388.7	388.7	436.1	436.1	0.0	0.0	1,157.6	1,157.5	21.0	17.8	22.0	18.8	22.0	18.8
West North Central	17,317.2	15,233.5	16.5	9.4	0.0	0.0	3,300.9	3,300.8	552.1	516.8	0.0	0.0	21,186.7	19,060.5	149.6	124.6	166.1	134.0	166.1	134.0
Iowa	6,229.0	5,582.2	0.0	0.0	0.0	0.0	144.9	144.9	23.2	20.4	0.0	0.0	6,397.1	5,747.5	27.9	21.1	27.9	21.1	27.9	21.1
Kansas	3,770.5	2,968.9	1.0	0.0	0.0	0.0	7.0	7.0	15.0	15.0	0.0	0.0	3,793.5	2,990.9	3.2	2.3	4.2	2.3	4.2	2.3
Minnesota	2,987.8	2,787.8	4.0	1.7	0.0	0.0	195.0	195.0	471.9	439.4	0.0	0.0	3,658.7	3,423.9	20.0	15.2	24.0	16.9	24.0	16.9
Missouri	458.5	458.5	11.5	7.7	0.0	0.0	568.1	568.1	16.5	16.5	0.0	0.0	1,054.6	1,050.8	96.8	84.6	108.3	92.3	108.3	92.3
Nebraska	811.9	811.9	0.0	0.0	0.0	0.0	277.9	277.8	15.7	15.7	0.0	0.0	1,105.5	1,105.4	1.1	0.8	1.1	0.8	1.1	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	1,922.1	914.7	0.0	0.0	7,220.0	7,198.0	4,174.7	4,110.8	0.0	0.0	14,092.1	12,968.8	574.9	414.6	2,497.0	1,329.3	2,497.0	1,329.3
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	43.5	39.8	74.2	69.3	74.2	69.3
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0	9.9	0.0	16.6	16.3	16.6	16.3	16.6	16.3
Florida	0.0	0.0	82.4	72.9	0.0	0.0	54.5	54.5	1,218.8	1,183.1	0.0	0.0	1,355.7	1,310.5	100.8	75.3	183.2	148.2	183.2	148.2
Georgia	0.0	0.0	238.6	68.6	0.0	0.0	2,047.6	2,047.6	843.1	818.1	0.0	0.0	3,129.3	2,934.3	51.3	50.4	289.9	119.0	289.9	119.0
Maryland	190.0	160.0	79.2	60.4	0.0	0.0	590.0	590.0	145.1	145.1	0.0	0.0	1,004.3	955.5	258.2	154.8	337.4	215.2	337.4	215.2
North Carolina	0.0	0.0	1,485.2	680.8	0.0	0.0	1,999.1	1,999.1	622.5	629.2	0.0	0.0	4,106.8	3,309.1	73.7	57.0	1,558.9	737.8	1,558.9	737.8
South Carolina	0.0	0.0	6.0	2.5	0.0	0.0	1,340.3	1,340.3	436.7	436.7	0.0	0.0	1,783.0	1,779.5	6.1	3.1	12.1	5.6	12.1	5.6
Virginia	0.0	0.0	0.0	0.0	0.0	0.0	866.0	866.0	884.2	884.2	0.0	0.0	1,750.2	1,750.2	21.7	15.4	21.7	15.4	21.7	15.4
West Virginia	583.3	583.3	0.0	0.0	0.0	0.0	322.5	300.5	2.2	2.2	0.0	0.0	908.0	886.0	3.0	2.5	3.0	2.5	3.0	2.5
East South Central	29.1	29.1	45.2	45.2	0.0	0.0	6,761.9	6,722.4	1,147.5	1,157.1	0.0	0.0	7,983.7	7,953.8	49.6	48.7	94.8	93.9	94.8	93.9
Alabama	0.0	0.0	0.0	0.0	0.0	0.0	3,271.0	3,271.0	605.3	615.9	0.0	0.0	3,876.3	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	872.3	835.3	71.3	70.3	0.0	0.0	943.6	905.6	9.2	8.3	9.2	8.3	9.2	8.3
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	1.4	1.4	1.4	1.4	1.4	1.4
Tennessee	29.1	29.1	45.2	45.2	0.0	0.0	2,618.6	2,616.1	196.2	196.2	0.0	0.0	2,889.1	2,886.6	37.1	37.1	82.3	82.3	82.3	82.3
West South Central	22,664.3	18,133.5	330.4	185.7	0.0	0.0	3,048.7	3,049.6	1,329.4	1,326.6	0.0	0.0	27,372.8	22,695.4	246.6	171.6	577.0	357.3	577.0	357.3
Arkansas	0.0	0.0	12.0	0.0	0.0	0.0	1,323.6	1,323.6	309.8	308.4	0.0	0.0	1,645.4	1,632.0	3.8	3.1	15.8	3.1	15.8	3.1
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	107.6	73.5	107.6	73.5	107.6	73.5
Oklahoma	5,001.4	3,779.5	2.5	0.0	0.0	0.0	863.2	863.2	76.2	76.2	0.0	0.0	5,943.3	4,718.9	2.0	1.7	4.5	1.7	4.5	1.7
Texas	17,662.9	14,354.0	315.9	185.7	0.0	0.0	669.9	670.8	493.3	491.9	0.0	0.0	19,142.0	15,702.4	133.2	93.3	449.1	279.0	449.1	279.0
Mountain	7,807.1	7,096.8	2,671.4	2,114.5	473.9	363.9	10,560.3	10,560.8	176.8	178.2	528.6	498.5	22,218.1	20,812.7	1,185.8	892.4	3,857.2	3,006.9	4,331.1	3,370.8
Arizona	267.3	237.3	1,224.3	1,112.9	295.4	295.4	2,720.9	2,720.9	34.7	34.7	0.0	0.0	4,542.6	4,401.2	650.5	523.3	1,874.8	1,636.2	2,170.2	1,931.6
Colorado	2,943.8	2,566.1	185.6	127.0	0.0	0.0	676.3	676.3	27.4	27.4	0.0	0.0	3,833.1	3,396.8	256.9	220.9	442.5	347.9	442.5	347.9
Idaho	962.7	962.7	0.0	0.0	0.0	0.0	2,707.7	2,707.7	94.3	95.7	10.0	10.0	3,774.7	3,776.1	4.8	3.2	4.8	3.2	4.8	3.2
Montana	638.1	636.7	0.0	0.0	0.0	0.0	2,757.6	2,758.1	3.0	3.0	0.0	0.0	3,398.7	3,397.8	6.2	4.7	6.2	4.7	6.2	4.7
Nevada	150.0	150.0	826.1	614.6	178.5	68.5	1,051.4	1,051.4	3.2	3.2	444.0	413.9	2,653.2	2,301.6	136.3	49.2	962.4	663.8	1,140.9	732.3
New Mexico	1,113.5	812.3	269.0	258.7	0.0	0.0	82.9	82.9	2.2	2.2	1.6	1.6	1,469.2	1,157.7	75.0	63.3	344.0	322.0	344.0	322.0
Utah	324.4	324.4	166.4	1.3	0.0	0.0	256.4	256.4	12.0	12.0	73.0	73.0	832.2	667.1	54.3	26.4	220.7	27.7	220.7	27.7
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	1.9	1.5	1.9	1.5	1.9	1.5
Pacific Contiguous	12,323.7	12,144.7	5,688.8	4,498.1	1,259.0	1,302.8	39,910.6	39,877.4	2,093.9	2,060.7	1,958.7	1,972.9	63,234.7	61,856.6	3,622.4	2,550.6	9,311.2	7,048.7	10,570.2	8,351.5
California	6,093.2	5,914.2	5,669.4	4,483.7	1,259.0	1,302.8	10,184.6	10,175.9	1,359.9	1,333.5	1,939.2	1,955.2	26,505.3	25,165.3	3,495.0	2,457.2	9,164.4	6,940.9	10,423.4	8,243.7
Oregon	3,157.4	3,157.4	18.9	13.9	0.0	0.0	8,519.8	8,516.8	328.0	331.2	19.5	17.7	12,043.6	12,037.0	75.7	62.0	94.6	75.9	94.6	75.9
Washington	3,073.1	3,073.1	0.5	0.5	0.0	0.0	21,206.2	21,184.7	406.0	396.0	0.0	0.0	24,685.8	24,654.3	51.7	31.4	52.2	31.9	52.2	31.9
Pacific Noncontiguous	266.4	265.6	44.2	32.2	0.0	0.0	465.5	465.5	262.4	254.1	43.0	43.0	1,081.5	1,060.4	395.8	319.3	440.0	351.5	440.0	351.5
Alaska	60.8	60.0	0.0	0.0	0.0	0.0	440.5	440.5	7.0	7.0	0.0	0.0	508.3	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	255.4	247.1	43.0	43.0	573.2	552.9	395.8	319.3	440.0	351.5	440.0	351.5
U.S. Total	73,088.2	64,937.6	11,831.6	8,818.7	1,732.9	1,666.7	79,767.0	79,677.3	13,778.9	13,671.7	2,530.3	2,514.4	182,728.9	171,286.4	8,586.5	6,389.8	20,418.1	15,208.5	22,151.0	16,875.2

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 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, January 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	
	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015	January 2016	January 2015
New England	11,838.8	11,755.4	1,109.0	1,110.1	969.8	959.2	2,073.3	2,076.8	0.0	0.0	6,907.1	6,914.3	0.0	0.0	22,898.0	22,815.8
Connecticut	2,547.5	2,504.6	482.2	482.2	69.8	64.7	383.4	383.4	0.0	0.0	2,832.5	2,831.5	0.0	0.0	6,315.4	6,266.4
Maine	1,250.0	1,250.0	297.1	297.2	119.0	119.0	85.0	85.0	0.0	0.0	893.4	901.8	0.0	0.0	2,644.5	2,653.0
Massachusetts	5,044.4	5,067.6	325.9	326.9	768.6	765.1	1,071.0	1,074.5	0.0	0.0	2,566.3	2,566.3	0.0	0.0	9,776.2	9,800.4
New Hampshire	1,235.2	1,201.0	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	2,236.7
Rhode Island	1,761.7	1,732.2	0.0	0.0	12.4	10.4	0.0	0.0	0.0	0.0	17.2	17.2	0.0	0.0	1,791.3	1,759.8
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	24,835.8	23,325.8	7,830.8	8,831.3	11,883.5	11,070.7	18,058.8	18,571.2	11.6	11.6	6,342.8	7,437.8	100.4	100.4	69,063.7	69,348.8
New Jersey	8,111.9	6,620.9	3,067.5	4,081.5	512.6	514.6	1,865.0	1,870.0	11.6	11.6	467.5	1,112.8	0.0	0.0	14,036.1	14,211.4
New York	8,235.4	8,252.6	3,085.9	3,072.4	9,554.3	8,760.5	2,131.4	2,487.7	0.0	0.0	3,491.6	3,945.3	0.0	0.0	26,498.6	26,518.5
Pennsylvania	8,488.5	8,452.3	1,677.4	1,677.4	1,816.6	1,795.6	14,062.4	14,213.5	0.0	0.0	2,383.7	2,379.7	100.4	100.4	28,529.0	28,618.9
East North Central	17,018.1	16,454.9	25,625.0	25,665.9	3,806.2	3,679.2	66,013.6	70,814.1	521.6	521.6	2,723.3	2,747.8	934.7	934.7	116,642.5	120,818.2
Illinois	3,543.0	2,972.4	10,162.4	10,183.3	231.2	232.6	15,156.6	15,254.9	0.0	0.0	681.7	682.2	117.7	117.7	29,892.6	29,443.1
Indiana	2,480.2	2,480.2	3,142.6	3,142.6	276.0	76.0	17,194.0	18,599.0	274.0	274.0	273.3	273.3	599.9	599.9	24,240.0	25,445.0
Michigan	4,292.5	4,292.5	3,539.3	3,556.8	2,862.0	3,054.1	10,845.3	10,948.4	47.2	47.2	525.0	538.0	0.0	0.0	22,111.3	22,437.0
Ohio	4,044.6	4,044.6	5,427.7	5,427.7	131.4	131.4	15,428.0	18,082.5	142.0	142.0	645.9	656.9	217.1	217.1	26,036.7	28,702.2
Wisconsin	2,657.8	2,665.2	3,353.0	3,355.5	305.6	185.1	7,389.7	7,929.3	58.4	58.4	597.4	597.4	0.0	0.0	14,361.9	14,790.9
West North Central	5,751.8	5,751.8	11,516.4	11,547.8	3,494.2	3,342.9	36,667.3	37,626.3	32.0	32.0	4,086.9	4,084.7	8.4	8.4	61,557.0	62,393.9
Iowa	1,131.0	1,131.0	1,104.4	1,104.4	548.3	344.2	6,240.0	6,563.0	32.0	32.0	1,007.4	1,002.6	0.0	0.0	10,063.1	10,177.2
Kansas	0.0	0.0	2,324.8	2,336.8	2,034.0	2,088.0	5,047.1	5,097.1	0.0	0.0	539.7	538.9	0.0	0.0	9,945.6	10,060.8
Minnesota	2,158.2	2,158.2	2,533.7	2,575.7	265.1	263.9	4,398.0	4,801.1	0.0	0.0	800.4	797.9	0.0	0.0	10,155.4	10,596.8
Missouri	1,830.0	1,830.0	3,379.4	3,355.4	230.8	230.8	12,306.6	12,337.6	0.0	0.0	1,139.1	1,145.0	0.0	0.0	18,885.9	18,898.8
Nebraska	342.6	342.6	1,151.5	1,152.9	407.3	407.3	4,016.0	4,167.9	0.0	0.0	313.7	313.7	0.0	0.0	6,231.1	6,384.4
North Dakota	0.0	0.0	328.0	328.0	0.0	0.0	4,184.6	4,184.6	0.0	0.0	64.6	64.6	8.4	8.4	4,585.6	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	48,369.3	47,515.3	31,399.7	31,856.2	8,317.7	6,128.6	56,920.8	63,229.6	669.8	669.8	12,573.0	12,868.2	135.0	135.0	158,385.3	162,402.7
Delaware	1,505.0	1,196.0	314.0	311.0	876.0	876.0	410.0	410.0	0.0	0.0	114.4	114.4	135.0	135.0	3,354.4	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	26,101.6	25,545.6	7,796.4	8,404.0	4,319.3	2,792.3	8,483.0	10,177.0	586.0	586.0	6,474.9	6,563.9	0.0	0.0	53,761.2	54,068.8
Georgia	7,950.8	7,961.8	7,846.7	7,823.4	778.2	115.0	9,492.2	12,332.4	83.8	83.8	998.7	1,120.7	0.0	0.0	27,150.4	29,437.1
Maryland	250.0	250.0	1,580.9	1,471.1	1,489.8	1,489.8	4,712.0	4,739.0	0.0	0.0	1,650.5	1,650.5	0.0	0.0	9,683.2	9,600.4
North Carolina	4,738.5	4,738.5	6,031.7	6,031.7	0.0	0.0	10,800.8	10,800.8	0.0	0.0	402.8	402.4	0.0	0.0	21,973.8	21,973.4
South Carolina	2,409.0	2,409.0	2,855.6	2,855.6	269.7	270.8	5,575.5	5,575.5	0.0	0.0	577.4	661.4	0.0	0.0	11,687.2	11,772.3
Virginia	5,414.4	5,414.4	3,894.1	3,879.1	584.7	584.7	4,366.3	4,921.3	0.0	0.0	2,343.3	2,343.9	0.0	0.0	16,602.8	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	19,274.7	18,380.4	12,895.3	12,887.5	2,592.1	2,744.1	33,163.4	36,211.7	0.0	0.0	150.8	150.8	99.8	99.8	68,176.1	70,474.3
Alabama	9,391.3	9,391.3	2,530.6	2,530.6	189.3	189.3	10,074.4	10,746.4	0.0	0.0	42.6	42.6	99.8	99.8	22,328.0	23,000.0
Kentucky	894.3	0.0	4,870.6	4,870.6	0.0	0.0	13,503.7	15,091.7	0.0	0.0	11.9	11.9	0.0	0.0	19,280.5	19,974.2
Mississippi	7,586.1	7,586.1	1,716.9	1,716.9	2,381.6	2,533.6	2,526.0	2,526.0	0.0	0.0	43.1	43.1	0.0	0.0	14,253.7	14,405.7
Tennessee	1,403.0	1,403.0	3,777.2	3,769.4	21.2	21.2	7,059.3	7,847.6	0.0	0.0	53.2	53.2	0.0	0.0	12,313.9	13,094.4
West South Central	59,442.0	58,638.2	13,130.0	12,267.3	35,933.0	36,052.4	37,938.1	37,921.9	903.2	903.2	178.3	185.4	330.8	330.8	147,855.4	146,299.2
Arkansas	4,597.3	4,597.3	725.8	729.3	810.7	810.7	5,124.5	5,124.5	0.0	0.0	12.2	12.2	0.0	0.0	11,270.5	11,274.0
Louisiana	7,548.1	7,548.1	2,649.8	2,649.8	8,937.1	9,022.4	3,418.6	3,418.6	892.6	892.6	42.0	49.1	25.2	25.2	23,513.4	23,605.8
Oklahoma	7,216.1	7,161.8	1,300.2	1,194.7	5,369.6	5,381.1	5,291.5	5,257.3	0.0	0.0	74.4	74.4	0.0	0.0	19,251.8	19,069.3
Texas	40,080.5	39,331.0	8,454.2	7,693.5	20,815.6	20,838.2	24,103.5	24,121.5	10.6	10.6	49.7	49.7	305.6	305.6	93,819.7	92,350.1
Mountain	22,488.7	21,945.4	8,925.8	8,921.5	3,164.6	3,213.4	28,964.6	29,674.0	52.0	52.0	370.8	370.8	87.1	87.1	64,053.6	64,264.2
Arizona	9,868.7	9,888.7	2,367.6	2,367.6	1,177.6	1,177.6	5,910.0	6,170.0	0.0	0.0	90.5	90.5	0.0	0.0	19,414.4	19,694.4
Colorado	3,239.9	2,651.7	2,535.3	2,535.3	289.0	349.0	5,129.8	5,281.8	0.0	0.0	168.4	168.4	0.0	0.0	11,362.4	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	54.0	54.0	2,293.1	2,423.1	52.0	52.0	0.0	0.0	1.5	1.5	2,722.2	2,892.7
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	1,493.9	1,079.8	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	6,936.1	6,920.8
Utah	1,830.0	1,830.0	520.2	520.2	326.6	322.4	4,754.0	4,926.0	0.0	0.0	27.8	27.8	0.0	0.0	7,458.6	7,626.4
Wyoming	94.0	94.0	153.6	153.6	12.6	5.6	6,392.1	6,387.5	0.0	0.0	5.8	5.8	85.6	85.6	6,743.7	6,732.1
Pacific Contiguous	25,309.9	25,361.4	11,295.7	11,372.8	11,851.4	12,629.8	2,015.0	2,043.6	0.0	0.0	422.3	410.7	211.7	211.7	51,106.0	52,030.0
California	19,624.4	19,675.9	10,520.7	10,597.8	11,599.6	12,378.0	90.0	118.6	0.0	0.0	407.1	395.5	211.7	211.7	42,453.5	43,377.5
Oregon	2,916.6	2,916.6	133.8	133.8	224.2	224.2	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	3,859.6	3,859.6
Washington	2,768.9	2,768.9	641.2	641.2	27.6	27.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,792.9	4,792.9
Pacific Noncontiguous	418.0	605.2	654.3	527.8	175.0	10.0	286.1	286.1	0.0	0.0	2,565.6	2,571.0	6.4	6.4	4,105.4	4,006.5
Alaska	418.0	605.2	654.3	527.8	175.0	10.0	106.1	106.1	0.0	0.0	694.8	685.4	0.0	0.0	2,048.2	1,934.5
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	234,747.1	229,733.8	124,382.0	124,988.2	82,187.5	79,830.3	282,101.0	298,455.3	2,190.2	2,190.2	36,320.9	37,741.5	1,914.3	1,914.3	763,843.0	774,853.6

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

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

NOTES:

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

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

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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	2	40577	American Mun Power-Ohio, Inc	Electric Utility	Cannelton Hydroelectric Plant	KY	57399	CG1	29.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	29.3
2016	2	40577	American Mun Power-Ohio, Inc	Electric Utility	Willow Island Hydroelectric Plant	WV	57401	WIG2	22.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	22.0
2016	2	59789	Avalon Solar Partners II, LLC	IPP	Avalon Solar II	AZ	60062	ASII	16.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	16.0
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN01	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN02	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN03	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN04	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN05	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN06	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN07	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	57260	CSOLAR IV West LLC	IPP	Imperial Solar Energy Center West	CA	57491	56819	148.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	148.7
2016	2	7977	City of Hamilton - (OH)	Electric Utility	Meldahl Hydroelectric Project	KY	56872	1	35.0	Conventional Hydroelectric	WAT	HY	(TS) Construction complete, but not yet in commercial operation	35.0
2016	2	10908	City of Lenox - (IA)	Electric Utility	Lenox	IA	1158	5	1.8	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
2016	2	20069	City of Wamego - (KS)	Electric Utility	Wamego	KS	1328	10	2.9	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	3.2
2016	2	56769	Consolidated Edison Development Inc.	IPP	Corcoran Solar 3	CA	59900	C3CA	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	2	3046	Duke Energy Progress - (NC)	Electric Utility	Elm City Solar Facility	NC	59164	NSC 1	17.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2016	2	59735	Enerparc CA2, LLC	IPP	Enerparc CA2, LLC	CA	59978	ECA22	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2016	2	59784	Innovative Solar 63, LLC	IPP	Innovative Solar 63, LLC	NC	60053	FLS1	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2016	2	58773	Kingfisher Wind LLC	IPP	Kingfisher Wind LLC	OK	58902	KNG1	298.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	298.0
2016	2	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	2	59937	Lemoore PV1, LLC	IPP	Lemoore 1	CA	60142	LEPV1	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2016	2	59791	Lindberg Field Solar I LLC	IPP	Lindberg Field Solar	CA	60060	SDIA2	2.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.1
2016	2	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	10	9.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	2	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	11	9.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	2	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	12	9.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	2	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	2	9.1	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	2	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	3	9.1	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	9.3
2016	2	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG1	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	2	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG10	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	2	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG2	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	2	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG3	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	2	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG4	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	2	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG5	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	2	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG6	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	2	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG7	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	2	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG8	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	2	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG9	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	2	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK5	35.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	35.0
2016	2	57313	SolarCity Corporation	IPP	Onondaga County - Metro Water Board	NY	60097	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	2	57313	SolarCity Corporation	IPP	Town of Needham VNEM	MA	60110	PV1	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2016	2	17609	Southern California Edison Co	Electric Utility	Tehachapi Energy Storage Project	CA	59661	TSP1	8.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	8.0
2016	2	17650	Southern Power Co	IPP	Butler Solar Farm 20	GA	59891	1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	2	17650	Southern Power Co	IPP	Pawpaw Solar Plant	GA	59894	1	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2016	2	59788	Steel Bridge Solar. LLC	IPP	Steel Bridge Solar, LLC	OR	60057	STEEL	2.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.3
2016	2	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	2	59139	SunEdison LLC	IPP	SunE- E Philadelphia Ontario	CA	59916	12307	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	2	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	2	59885	UIL Distributed Resources, LLC	IPP	UDR Glastonbury Fuel Cell	CT	60109	UDRFC	2.5	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	3.4
2016	2	19876	Virginia Electric & Power Co	Electric Utility	Philip Morris	VA	59911	1	2.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.4
2016	2	19876	Virginia Electric & Power Co	Electric Utility	Western Branch High School	VA	59904	1	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2016	3	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	3	40577	American Mun Power-Ohio, Inc	Electric Utility	Cannelton Hydroelectric Plant	KY	57399	CG2	29.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	29.3
2016	3	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	3	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	3	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 1	0.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.2
2016	3	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 2	0.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.2
2016	3	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 3	0.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.2
2016	3	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 5	0.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.2
2016	3	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 6	0.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.2
2016	3	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 7	0.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.2
2016	3	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 8	0.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.2
2016	3	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 9	0.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.2
2016	3	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN10	0.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.2
2016	3	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN11	0.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.2
2016	3	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN12	0.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.2
2016	3	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN4	0.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.2
2016	3	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN1	0.1	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.1
2016	3	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN10	0.1	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.1
2016	3	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN11	0.1	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.1
2016	3	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN12	0.1	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.1
2016	3	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN2	0.1	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.1
2016	3	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN3	0.1	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.1
2016	3	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN4	0.1	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.1
2016	3	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN5	0.1	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.1
2016	3	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN6	0.1	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.1
2016	3	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN7	0.1	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.1
2016	3	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN8	0.1	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.1
2016	3	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN9	0.1	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	0.1
2016	3	59842	Blythe Solar 110, LLC	IPP	Blythe Solar 110, LLC	CA	60093	BLCK1	38.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	38.7
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	10	8.6	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	11	8.6	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	5	8.6	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	6	8.6	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	7	8.6	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	8	8.6	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	3	298	City of Alexandria - (LA)	Electric Utility	D G Hunter	LA	6558	9	8.6	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	3	7977	City of Hamilton - (OH)	Electric Utility	Meldahl Hydroelectric Project	KY	56872	3	35.0	Conventional Hydroelectric	WAT	HY	(TS) Construction complete, but not yet in commercial operation	35.0
2016	3	6455	Duke Energy Florida, Inc	Electric Utility	Central Florida Solar Facility	FL	59973	XXXXX	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2016	3	57249	EPP Renewable Energy	IPP	Nashua Plant	NH	55006	UNT3	1.5	Landfill Gas	LFG	IC	(TS) Construction complete, but not yet in commercial operation	1.6
2016	3	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	3	59402	Garysburg Solar LLC	IPP	Garysburg Solar	NC	59641	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	3	59403	Gaston Solar LLC	IPP	Gaston Solar	NC	59642	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	3	59462	Heelstone Energy Holdings, LLC	IPP	Crestwood Solar Center LLC	NC	59914	CREST	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	3	59971	Kenansville Solar 2, LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV1	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	3	59971	Kenansville Solar 2 LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV2	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	3	59971	Kenansville Solar 2 LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV3	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	3	59971	Kenansville Solar 2 LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV4	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	3	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	4	212.2	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	212.2
2016	3	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	5	118.9	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	118.9
2016	3	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	6	89.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	89.0
2016	3	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	7	89.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	89.0
2016	3	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	3	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	1	41.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	41.9

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	3	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN3	1.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
2016	3	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN4	0.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	0.3
2016	3	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	3	58417	Panda Liberty O&M LLC	IPP	Panda Liberty Generation Plant	PA	58420	GEN1	382.5	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	435.0
2016	3	58417	Panda Liberty O&M LLC	IPP	Panda Liberty Generation Plant	PA	58420	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	435.0
2016	3	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	3	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT1	8.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	8.5
2016	3	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT2	8.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	8.5
2016	3	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT3	8.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	8.5
2016	3	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT4	8.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	8.5
2016	3	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT5	8.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	8.5
2016	3	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT6	8.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	8.5
2016	3	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	3	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	3	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	3	17650	Southern Power Co	IPP	Grant Wind, LLC	OK	60013	GRANT	151.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	151.8
2016	3	58661	Sustainable Power Group, LLC	IPP	Latigo Wind Park	UT	59965	LTIGO	62.1	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	62.1
2016	3	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	3	19497	United Illuminating Co	Electric Utility	UI RCP Bridgeport Seaside	CT	60054	BPPV	2.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.2
2016	3	58984	Winton Solar LLC	IPP	Winton Solar	NC	59177	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	3	58982	Woodland Solar LLC	IPP	Woodland Solar	NC	59175	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	4	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	4	59912	Amethyst Solar	NC	58730	PV1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2016	4	59910	Audrey Solar LLC	NC	58732	PV1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2016	4	59359	BHE Renewables, LLC	IPP	Marshall Wind Farm	KS	59084	RPMA	73.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	73.8
2016	4	59842	Blythe Solar 110, LLC	IPP	Blythe Solar 110, LLC	CA	60093	BLCK2	36.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	36.3
2016	4	57365	Consolidated Edison Solutions Inc	IPP	Future Generation Wind	MA	59622	FGMA	7.9	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	8.0
2016	4	4254	Consumers Energy Co	Electric Utility	Grand Valley Solar Gardens	MI	60118	1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2016	4	6455	Duke Energy Florida, Inc	Electric Utility	Osceola Solar Facility	FL	59954	XXXXX	3.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.8
2016	4	58970	Ecoplexus, Inc	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	4	59745	First Solar Asset Management	IPP	Kingbird A Solar LLC	CA	59868	GEN01	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	4	59745	First Solar Asset Management	IPP	Kingbird B Solar, LLC	CA	60091	GEN01	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	4	57104	Golden Springs Development Company LLC	IPP	Buidling L	CA	60154	BLDG1	1.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.0
2016	4	57104	Golden Springs Development Company LLC	IPP	Building F	CA	60151	BLDGF	1.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.3
2016	4	57104	Golden Springs Development Company LLC	IPP	Building G	CA	60153	BLDGG	1.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.2
2016	4	7353	Golden Valley Elec Assn Inc	Electric Utility	Healy	AK	6288	2	50.0	Conventional Steam Coal	LIG	ST	(TS) Construction complete, but not yet in commercial operation	50.0
2016	4	59911	Milo Solar LLC	IPP	Milo Solar	NC	58739	PV1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2016	4	59913	Minnie Solar LLC	IPP	Minnie Solar	NC	58740	PV1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2016	4	59916	Owen Solar LLC	IPP	Owen Solar	NC	58742	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	4	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	4	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	4	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	4	57313	SolarCity Corporation	IPP	Williamsburg Solar LLC VNEM	MA	60111	PV1	2.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.2
2016	4	59914	Sophie Solar LLC	IPP	Sophie Solar	NC	58745	PV1	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2016	4	59915	Star Solar LLC	IPP	Star Solar	NC	58746	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2016	4	59772	SunE Solar XVII Project 1, LLC	IPP	SunE Redlands	CA	60031	RDND5	1.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.5
2016	4	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	4	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	4	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	4	58661	Sustainable Power Group, LLC	IPP	SEPV Mojave West	CA	59740	SPVMW	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	4	56694	Thermo No 1 BE 01 LLC	IPP	Thermo Solar PV-01	UT	59883	SOLAR	2.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.9
2016	4	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	4	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	5	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	4.4
2016	5	59842	Blythe Solar 110, LLC	IPP	Blythe Solar 110, LLC	CA	60093	BLCK3	34.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	34.8
2016	5	59903	Candace Solar LLC	IPP	Candace Solar	NC	59499	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	5	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	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	6455	Duke Energy Florida, Inc	Electric Utility	Perry Solar Facility	FL	60071	XXXXX	5.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.1
2016	5	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	5	5701	El Paso Electric Co	Electric Utility	Montana Power Station	TX	58562	GT-3	100.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	131.8
2016	5	6452	Florida Power & Light Co	Electric Utility	FIU Solar	FL	60006	1	0.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	202.0
2016	5	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	5	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	5	9273	Indianapolis Power & Light Co	Electric Utility	Harding Street	IN	990	BAT1	20.0	Batteries	MWH	BA	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	5	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	SOLAR	10.0	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	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK2	21.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	21.0
2016	5	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	5	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	5	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	5	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	5	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	5	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	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	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	5	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT01	263.9	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	297.5
2016	5	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT02	263.9	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	297.5
2016	5	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT03	263.9	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	297.5
2016	5	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	ST01	579.4	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	579.7
2016	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	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	57369	Apple, Inc	Industrial	Apple Campus 2 Fuel Cell	CA	59557	AC2FC	4.0	Other Waste Biomass	OBG	FC	(T) Regulatory approvals received. Not under construction	4.0

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
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	(OT) Other	38.5
2016	6	59935	Baltimore Church Solar, LLC	IPP	Baltimore Church Solar, LLC	NC	60144	FLS1	5.4	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.5
2016	6	57421	BayWa r.e Wind LLC	IPP	Chopin Wind LLC	OR	59076	WT1	10.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	10.0
2016	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
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	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	SEG	1.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
2016	6	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	6	5860	Empire District Electric Co	Electric Utility	Riverton	KS	1239	12-2	138.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	250.0
2016	6	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5A	1,260.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	296.0
2016	6	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5B		Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	296.0
2016	6	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5C		Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	296.0
2016	6	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5ST		Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	464.0
2016	6	59939	Floyd Solar, LLC	IPP	Floyd Solar, LLC	NC	60147	FLS1	6.5	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	6.5
2016	6	59776	Frontier Solar, LLC	IPP	Frontier Solar LLC	CA	60039	FTRS	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	6	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	6	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	6	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	6	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	6	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	6	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	6	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	6	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	6	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	6	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	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	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	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	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	54888	NRG Texas Power LLC	IPP	P H Robinson	TX	3466	PHR1	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	71.2
2016	6	54888	NRG Texas Power LLC	IPP	P H Robinson	TX	3466	PHR2	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	71.2
2016	6	54888	NRG Texas Power LLC	IPP	P H Robinson	TX	3466	PHR3	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	71.2
2016	6	54888	NRG Texas Power LLC	IPP	P H Robinson	TX	3466	PHR4	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	71.2
2016	6	54888	NRG Texas Power LLC	IPP	P H Robinson	TX	3466	PHR5	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	71.2
2016	6	54888	NRG Texas Power LLC	IPP	P H Robinson	TX	3466	PHR6	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	71.2
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	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	1	1.6	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2016	6	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	2	1.6	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2016	6	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	3	1.6	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2016	6	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	4	1.6	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2016	6	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	5	1.6	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2016	6	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	6	16179	Rochelle Municipal Utilities	Electric Utility	South Main Street	IL	961	16	1.8	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	1.8
2016	6	16179	Rochelle Municipal Utilities	Electric Utility	South Main Street	IL	961	17	1.8	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	1.8
2016	6	16179	Rochelle Municipal Utilities	Electric Utility	South Main Street	IL	961	18	1.8	Petroleum Liquids	DFO	IC	(P) Planned for installation, but regulatory approvals not initiated	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	BLK6	36.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	36.6
2016	6	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	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	59837	South Plains Wind Energy II, LLC	IPP	South Plains II	TX	60087	SPII	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
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	59569	TWE Ahoskie Solar Project, LLC	IPP	Ahoskie	NC	59795	FLS1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
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	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	56334	WEHRAN Energy Corporation	IPP	Brookhaven Facility	NY	55778	BH5	0.5	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	0.5
2016	6	56334	WEHRAN Energy Corporation	IPP	Brookhaven Facility	NY	55778	BH6	0.5	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	0.5
2016	7	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK4	33.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	33.2
2016	7	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 2	CA	60079	DU2CA	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	7	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 3	CA	60080	DU3CA	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2016	7	56769	Consolidated Edison Development Inc.	IPP	Oro Loma	CA	59915	ORCA	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	7	59155	First Wind O&M, LLC	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	59258	Five Points Solar Park, LLC	IPP	Five Points Solar Park	CA	59523	FRFSP	60.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	60.0
2016	7	9324	Indiana Michigan Power Co	Electric Utility	Twin Branch PV	IN	59861	TBPV1	2.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.6
2016	7	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Greenwood (MO)	MO	6074	5	3.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.0
2016	7	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	7	13511	New York State Elec & Gas Corp	Electric Utility	Harris Lake	NY	2528	2	2.3	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	2.5
2016	7	58489	OCI Solar Power	IPP	OCI Alamo 6 LLC	TX	59206	OCIA6	105.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	105.0
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	58661	Sustainable Power Group, LLC	IPP	Aspiration G	CA	59737	ASPRG	9.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	9.0
2016	7	58661	Sustainable Power Group, LLC	IPP	Elevation Solar C	CA	59964	ELVSC	40.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
2016	7	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 1	CA	59315	BEAC1	56.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	56.0
2016	7	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 3	CA	59316	BEAC3	56.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	56.0
2016	7	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 4	CA	59317	BEAC4	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2016	7	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	7	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
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	59841	70SM1 8ME LLC	IPP	Calipatria Solar Farm	CA	59988	GEN 1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
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

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	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK5	33.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	33.9
2016	8	17845	City of Springville - (UT)	Electric Utility	Whitehead	UT	7028	K8CAT	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	(P) Planned for installation, but regulatory approvals not initiated	6.5
2016	8	56769	Consolidated Edison Development Inc.	IPP	CED Avenal	CA	60077	AVCA	15.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.8
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	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	59155	First Wind O&M, LLC	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	8	59155	First Wind O&M, LLC	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	8	59155	First Wind O&M, LLC	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	59481	Franklinton Solar LLC	IPP	Franklinton Solar	NC	59708	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	8	59709	Granite Mountain Solar East LLC	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	59708	Granite Mountain Solar West, LLC	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	59705	Iron Springs Solar, LLC	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	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	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	58489	OCI Solar Power	IPP	OCI Alamo 7 LLC	TX	59207	OCIA7	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2016	8	17470	PUD 1 of Snohomish County	Electric Utility	MESA 1	WA	60016	B	1.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.0
2016	8	17470	PUD 1 of Snohomish County	Electric Utility	MESA 2	WA	60021	MESA2	2.4	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.4
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	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 Bme, LLC	IPP	Springbok Solar Farm 2	CA	59840	SB2	155.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	155.0
2016	9	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	9	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	9	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	9	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	9	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	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	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	9	4254	Consumers Energy Co	Electric Utility	Western Michigan Solar Gardens	MI	60117	1	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2016	9	58970	Ecoplexus, Inc	IPP	Turkey Creek PV1	NC	60000	TRKCK	13.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	13.5
2016	9	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
2016	9	6201	Farmer's Irrigation District	IPP	Copper Dam Plant	OR	10323	TURGO	1.0	Conventional Hydroelectric	WAT	HY	(OT) Other	2.6
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	59745	First Solar Asset Management	IPP	Stateline Solar	CA	58646	STL	299.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	299.9
2016	9	56615	First Solar Project Development	IPP	Little Bear Solar 1, LLC	CA	59870	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	9	56615	First Solar Project Development	IPP	Little Bear Solar 2, LLC	CA	59885	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
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	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
2016	9	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	9	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	9	59806	Grand View PV Solar Two, LLC	IPP	Grand View Solar Two	ID	60068	GVS2	60.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	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	(P) Planned for installation, but regulatory approvals not initiated	20.0
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	9324	Indiana Michigan Power Co	Electric Utility	OlivePV	IN	59854	OLPV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	9	59680	Lillington Solar LLC	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	9	58673	Longhorn Holdings, LLC	IPP	Longhorn Holdings	NC	58781	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	9	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	9	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 4	0.6	Conventional Steam Coal	BIT	ST	(T) Regulatory approvals received. Not under construction	2.9
2016	9	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 5	0.6	Conventional Steam Coal	BIT	ST	(T) Regulatory approvals received. Not under construction	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	(L) Regulatory approvals pending. 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	59741	RE Roserock	IPP	RE Roserock	TX	59994	ROSEK	157.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	160.0
2016	9	59700	RE Tranquillity LLC	IPP	RE Tranquillity	CA	59939	TQ	200.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	205.3
2016	9	59662	Riverside Fuel Cell, LLC	Commercial	Riverside RWQCP Fuel Cell	CA	59877	MB20	1.4	Other Waste Biomass	OBG	FC	(P) Planned for installation, but regulatory approvals not initiated	1.4
2016	9	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	9	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	9	59605	South Louisburg Solar LLC	IPP	South Louisburg Solar	NC	59825	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	9	59138	SunPower Corporation, Systems	IPP	Rio Bravo Solar 1 LLC	CA	59249	PV1	19.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	9	59138	SunPower Corporation, Systems	IPP	Wildwood Solar II	CA	59253	PV1	14.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	15.0
2016	9	54842	WM Renewable Energy LLC	IPP	Waste Management Tri-Cities LFGTE	CA	57164	GEN1	1.6	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2016	9	54842	WM Renewable Energy LLC	IPP	Waste Management Tri-Cities LFGTE	CA	57164	GEN2	1.6	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2016	9	59840	Wallace Solar 2 LLC	IPP	Wallace Solar 2	NC	60090	2MWPV	1.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.9
2016	10	59273	62SK Bme, LLC	IPP	Springbok Solar Farm 1	CA	59632	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	SG2	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	(V) Under construction, more than 50 percent complete	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	(V) Under construction, more than 50 percent complete	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	59777	Buckthorn Westex, LLC	IPP	Buckthorn Solar 1	TX	60044	BKTH1	150.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	150.0
2016	10	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	10	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	4TG	62.0	Wood/Wood Waste Biomass	BLQ	ST	(U) Under construction, less than or equal to 50 percent complete	75.0
2016	10	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	10	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
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	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
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	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	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	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

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	59018	Optimum Wind 6 LLC	IPP	Optimum Wind 6 LLC	IA	59224	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	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	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
2016	10	58579	Silverado Power	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	17650	Southern Power Co	IPP	Butler Solar Project 103	GA	59896	1	103.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	103.0
2016	10	17650	Southern Power Co	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	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	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	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED1	2.0	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	2.0
2016	10	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED2	2.0	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	2.0
2016	10	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
2016	11	55918	Acciona Wind Energy USA LLC	IPP	San Roman Wind I, LLC	TX	59712	SRW1	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	SG3	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2016	11	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK7	25.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	25.9
2016	11	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	10	43.1	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	59595	Copper Mountain Solar 4, LLC	IPP	Copper Mountain Solar 4, LLC	NV	59814	PV01	46.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	46.0
2016	11	59595	Copper Mountain Solar 4, LLC	IPP	Copper Mountain Solar 4, LLC	NV	59814	PV02	46.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	46.0
2016	11	57406	Deepwater Wind Block Island LLC	IPP	Block Island Wind Farm	RI	58035	BIWF	29.3	Offshore Wind Turbine	WND	WS	(U) Under construction, less than or equal to 50 percent complete	30.0
2016	11	58468	Dominion Renewable Energy	IPP	Eastern Shore Solar, LLC	VA	60127	PV1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2016	11	59155	First Wind O&M, LLC	IPP	Mililani South PV	HI	58281	1	14.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	14.7
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	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	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	11	58606	Mauka Fit One LLC	IPP	Mauka Fit One	HI	58662	3501	3.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.5
2016	11	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	11	59839	Sunflower Wind Project	IPP	Sunflower Wind Project	ND	60088	SNFLR	104.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	104.0
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	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	Izia Solar	NC	60141	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
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	Big Bend	FL	645	1	19.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	19.0
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	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	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	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	59482	Ameresco Tempe	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	59758	American Falls Solar II, LLC	IPP	American Falls Solar II	ID	60012	IPAF2	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. 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	(L) Regulatory approvals pending. 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	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
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	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
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	59259	Blackwell Solar Park, LLC	IPP	Blackwell Solar Park	CA	59524	FRBSP	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
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	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	Panoche Valley Solar Farm	CA	57340	1	240.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	240.0
2016	12	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
2016	12	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
2016	12	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
2016	12	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
2016	12	58695	Coronal Development Services	IPP	Holdrege Solar Center	NE	59713	HDSC	4.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.0
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	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	56215	E ON Climate Renewables N America LLC	IPP	Colbec's Corner, LLC	TX	59068	GVII	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2016	12	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
2016	12	58970	Ecoplexus, Inc	IPP	American Legion PV 1	NC	59516	AMLEG	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	58970	Ecoplexus, Inc	IPP	Baker PV 1	NC	59517	BAKE1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58970	Ecoplexus, Inc	IPP	Benthall Bridge PV 1	NC	59515	BENT1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. 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	3.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.4
2016	12	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. 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	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	58720	Enbridge	IPP	New Creek Wind	WV	60132	NCG01	103.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	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	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
2016	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
2016	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
2016	12	56615	First Solar Project Development	IPP	Playa Solar	NV	59827	GEN01	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2016	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
2016	12	56615	First Solar Project Development	IPP	Windhub Solar A LLC	CA	59878	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	56615	First Solar Project Development	IPP	Windhub Solar B, LLC	CA	59969	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	59155	First Wind O&M, LLC	IPP	Bingham Wind	ME	57531	1	186.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	7140	Georgia Power Co	Electric Utility	Fort Gordon Solar Facility	GA	59863	1	30.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	30.0
2016	12	7140	Georgia Power Co	Electric Utility	Fort Stewart Solar Facility	GA	59865	1	30.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	30.0
2016	12	7140	Georgia Power Co	Electric Utility	King's Bay Solar Facility	GA	59864	1	30.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	(L) Regulatory approvals pending. Not under construction	46.0

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	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	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
2016	12	9267	Hoosier Energy R E C, Inc	Electric Utility	Ellettsville Solar RES	IN	59985	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1
2016	12	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	12	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
2016	12	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	12	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
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	9324	Indiana Michigan Power Co	Electric Utility	Waterdliet PV	MI	59853	WVPV1	4.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.6
2016	12	59628	Infigen Energy US Development LLC	IPP	Caprock Solar 1 LLC	NM	59251	PV1	24.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	25.0
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	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
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	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
2016	12	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
2016	12	11664	Mark Technologies Corp	IPP	Alla 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	59469	Mountain Home Solar, 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	(L) Regulatory approvals pending. 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	58477	O2energies, Inc.	IPP	Five Forks Solar	NC	59951	5FRK	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	12	59756	Orchard Ranch Solar, LLC	IPP	Orchard Ranch Solar	ID	60010	IPOR	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	59470	Pocatello Solar 1, LLC	IPP	Pocatello Solar	ID	59696	PAPV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
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	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	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	17650	Southern Power Co	IPP	Taylor County Solar	GA	59897	1	148.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	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	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	58661	Sustainable Power Group, LLC	IPP	Central Arkansas Dry Ranch C	CA	59963	CADRC	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
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	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	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	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	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	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	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	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
2017	1	56146	Black Hills/Colorado Elec.Util	Electric Utility	Peak View Wind Farm	CO	60143	WTG	60.8	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	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	59306	Keen Farm, LLC	IPP	Keen Farm	NC	59565	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	1	6.8	Natural Gas Internal Combustion Engine	NG	IC	(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	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	1	59056	Tri Global Energy, LLC	IPP	Haile Community Wind Farm	TX	59247	HALE1	478.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	478.0
2017	2	57369	Apple, Inc	Industrial	Apple Campus 2 PV	CA	59473	AC2PV	14.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	14.4
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	215.0
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG2	205.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	316.0
2017	2	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	2	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	2	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	2	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	2	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	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	Conventional Hydroelectric	WAT	OT	(L) Regulatory approvals pending. Not under construction	3.0
2017	3	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	Conventional Hydroelectric	WAT	OT	(L) Regulatory approvals pending. Not under construction	1.3
2017	3	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	Conventional Hydroelectric	WAT	OT	(L) Regulatory approvals pending. Not under construction	1.7
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	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
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy JN, LLC	NM	60145	1	181.7	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	181.7
2017	3	56545	Pattern Operators LP	IPP	Broadview Energy KW, LLC	NM	60152	1	142.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	142.6
2017	3	59056	Tri Global Energy, LLC	IPP	Fluvanna	TX	59245	FLUV1	240.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	240.0
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	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	4	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	4	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	4	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	4	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	4	6035	Exelon Power	IPP	Colorado Bend II	TX	60122	CTB	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	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	170.5

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	4	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	4	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	4	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3CT	324.6	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	365.5
2017	4	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3ST	191.8	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	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	209.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.7
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG2	209.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.7
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	STG1	238.8	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	260.5
2017	4	58849	Mariah North East LLC	IPP	Mariah North	TX	59005	MAR1	139.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	139.2
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	Enviromission, 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	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	58849	Mariah North East 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	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	5	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	5	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	5	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	5	12258	Medical Area Total Egy Pll 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	59101	NTE Texas, LLC	IPP	Pecan Creek Energy Center	TX	59298	PCEC1	230.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	285.0
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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	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	(L) Regulatory approvals pending. Not under construction	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	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	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	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	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	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	9267	Hoosier Energy R E C, Inc	Electric Utility	Cabin Creek Renewable Energy Station	IN	59791	1	1.9	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	2.0
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	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
2017	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
2017	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
2017	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
2017	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
2017	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
2017	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
2017	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
2017	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
2017	6	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG11	256.5	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 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	(U) Under construction, less than or equal to 50 percent complete	404.0
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	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	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	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	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	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	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	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	58588	National Solar Power Partners LLC	IPP	Hardee County Solar Farms 1 LLC	FL	58637	HCSF1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
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	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2017	10	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
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 South 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	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	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
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	350.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	350.0
2017	10	57028	West Butte Wind Power Project	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	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	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

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	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	59662	VIC	104.4	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.4
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	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	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	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	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	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	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	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	58626	Paynesville Wind, LLC	IPP	Paynesville Wind Farm	MN	58693	1	95.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	95.0
2017	12	56424	Quilt Block Wind Farm LLC	IPP	Quilt Block Wind Farm LLC	WI	57116	GEN 1	98.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	98.0
2017	12	59701	RE Tranquillity 8 LLC	IPP	RE Tranquillity 8	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	205.3
2017	12	58843	Searchlight Wind Energy LLC	IPP	Searchlight Wind	NV	58988	1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2017	12	57331	Soitec Solar Development LLC	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2017	12	59080	Soleil Energy Solutions, LLC	IPP	Westside Solar Farm	NC	59258	WEST1	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2017	12	58860	Southbridge Recycling and Disposal Park, Inc	IPP	Southbridge Landfill Gas-to-Energy	MA	59011	CAT2	1.5	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2017	12	59056	Tri Global Energy, LLC	IPP	Bearkat	TX	59972	BRKAT	240.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	240.0
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
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	CTG2	186.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	235.0
2018	1	56204	Diamond Generating Corporation - Operations, LLC	IPP	CPV Valley Energy Center	NY	56940	STG	305.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	350.0
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	58763	LotusWorks-Summit Ridge I, LLC	IPP	Summit Ridge I Wind Farm	OR	58894	SRWF	151.8	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	151.8
2018	1	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	460.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	475.0
2018	1	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	248.8	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	248.8
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	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 Biorefinery	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	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	2	59056	Tri Global Energy, LLC	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	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	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	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	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	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	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
2018	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
2018	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	246.5
2018	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
2018	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
2018	6	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	310.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	310.3
2018	6	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	284.8	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	284.8
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
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

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	40192	Shady Hills Power Co LLC	IPP	Shady Hills Generating Station	FL	55414	G401	200.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	259.0
2018	6	40192	Shady Hills Power Co LLC	IPP	Shady Hills Generating Station	FL	55414	G501	200.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	259.0
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	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	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	Evergrow Wind Holdings Inc	IPP	Cassadaga Wind Farm	NY	58777	1	125.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	125.0
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	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	59628	Infigen Energy US Development LLC	IPP	Capirock Solar 2 LLC	NM	59846	PV1	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
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	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	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
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	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	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	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	(P) Planned for installation, but regulatory approvals not initiated	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	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	235.0
2019	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	235.0
2019	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	250.0
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	59111	Crawford Renewable Energy, LLC	IPP	Crawford Renewable Energy - Meadville Power Station	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	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	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT1	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2019	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
2019	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
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	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	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	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	28086	Energy Unlimited Inc	IPP	Painted Hills IV Wind	CA	56926	1	19.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	19.5
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	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	56983	Gibson County Generation LLC	IPP	Gibson County Generation Station	TN	57709	1	371.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	432.0

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	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	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	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	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	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	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	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	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS2	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS3	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS4	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS5	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS6	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
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	CCGS7	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2023	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS8	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2023	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS9	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
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	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 significiant 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	2	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	1	200.0	Conventional Steam Coal	BIT	ST
2016	2	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	2	200.0	Conventional Steam Coal	BIT	ST
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	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2016	2	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2016	2	4161	Constellation Power Source Gen	IPP	Perryman	MD	1556	GT2	51.0	Petroleum Liquids	DFO	GT
2016	3	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	5	0.5	Petroleum Liquids	DFO	IC
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	3	54843	WM Illinois Renewable Energy LLC	IPP	Lake Gas Recovery	IL	50575	GEN2	2.9	Landfill Gas	LFG	GT
2016	3	54843	WM Illinois Renewable Energy LLC	IPP	Lake Gas Recovery	IL	50575	GEN3	2.9	Landfill Gas	LFG	GT
2016	3	54842	WM Renewable Energy LLC	IPP	BJ Gas Recovery	GA	54392	GEN1	0.8	Landfill Gas	LFG	IC
2016	3	54842	WM Renewable Energy LLC	IPP	BJ Gas Recovery	GA	54392	GEN3	0.8	Landfill Gas	LFG	IC
2016	3	54842	WM Renewable Energy LLC	IPP	Monroe Livingston Gas Recovery	NY	50565	GEN2	0.8	Landfill Gas	LFG	IC
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	15470	Duke Energy Indiana Inc	Electric Utility	Wabash River	IN	1010	2	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana Inc	Electric Utility	Wabash River	IN	1010	3	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana Inc	Electric Utility	Wabash River	IN	1010	4	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana Inc	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	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	1	170.0	Conventional Steam Coal	SUB	ST
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	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J98	1.0	Landfill Gas	LFG	IC
2016	4	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	1	61.0	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	5	4161	Constellation Power Source Gen	IPP	Riverside (MD)	MD	1559	4	74.0	Natural Gas Steam Turbine	NG	ST
2016	5	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P1	10.0	Petroleum Liquids	DFO	GT
2016	5	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P2	10.0	Petroleum Liquids	DFO	GT
2016	5	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P4	59.0	Petroleum Liquids	DFO	GT
2016	5	6455	Duke Energy Florida, Inc	Electric Utility	Rio Pinar	FL	637	P1	12.0	Petroleum Liquids	DFO	GT
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	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	59919	Dynegy Miami Fort	Electric Utility	Miami Fort	OH	2832	6	163.0	Conventional Steam Coal	BIT	ST
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	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2016	6	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2016	6	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2016	6	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2016	6	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2016	6	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2016	6	18125	Stillwater Utilities Authority	Electric Utility	Boomer Lake Station	OK	3000	2	13.0	Natural Gas Steam Turbine	NG	ST
2016	6	54842	WM Renewable Energy LLC	IPP	New Milford Gas Recovery	CT	50564	GEN4	0.8	Landfill Gas	LFG	IC
2016	7	7140	Georgia Power Co	Electric Utility	Mitchell (GA)	GA	727	3	155.0	Conventional Steam Coal	BIT	ST
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	14127	Omaha Public Power District	Electric Utility	North Omaha	NE	2291	3	87.0	Conventional Steam Coal	SUB	ST
2016	11	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	1TG	10.5	Wood/Wood Waste Biomass	BLQ	ST
2016	12	5347	Dow Chemical Co	Industrial	LaO Energy Systems	LA	52006	GEN7	95.0	Natural Gas Fired Combined Cycle	NG	CT
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	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	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY
2017	1	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2017	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2017	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
2017	3	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	3	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT2	24.0	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

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	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	37.3	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	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	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.5	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.3	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	15.3	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	1	1.9	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	1.8	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT1	21.8	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT2	25.9	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	1	13.0	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	3	85.6	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	2	20.4	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	1	28.7	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	3	82.0	Natural Gas Steam Turbine	NG	ST
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	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	ST1	106.0	Natural Gas Steam Turbine	NG	ST
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	1	51.0	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	2	51.0	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	3	116.5	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	4	257.0	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	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	6455	Duke Energy Florida, Inc	Electric Utility	Crystal River	FL	628	1	370.0	Conventional Steam Coal	BIT	ST
2018	4	6455	Duke Energy Florida, Inc	Electric Utility	Crystal River	FL	628	2	499.0	Conventional Steam Coal	BIT	ST
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	1	28.0	Natural Gas Steam Turbine	NG	ST
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	2	29.0	Natural Gas Steam Turbine	NG	ST
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	3	71.0	Natural Gas Steam Turbine	NG	ST
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	7	7308	Hawkeye Energy Greenport LLC	IPP	Hawkeye Energy Greenport LLC	NY	55969	U-01	52.7	Petroleum Liquids	KER	GT
2018	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		All Other	WH	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	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	1	125.0	Conventional Steam Coal	BIT	ST
2018	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	2	125.0	Conventional Steam Coal	BIT	ST
2018	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	294.9	Conventional Steam Coal	SUB	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	191.0	Conventional Steam Coal	BIT	ST
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	2	185.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	1	138.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	2	137.0	Conventional Steam Coal	BIT	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

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

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2019	12	56706	Chevron Technology Ventures	IPP	Questa Solar Facility	NM	57369	QST	1.0	Solar Photovoltaic	SUN	PV
2019	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant	CA	260	6	754.0	Natural Gas Steam Turbine	NG	ST
2019	12	54802	Dynegy -Moss Landing LLC	IPP	Dynegy Moss Landing Power Plant	CA	260	7	755.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	102.0	Natural Gas Steam Turbine	NG	ST
2019	12	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	607.7	Nuclear	NUC	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	1	49.8	Conventional Steam Coal	SUB	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	47.1	Conventional Steam Coal	SUB	ST
2019	12	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	CTG1	19.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	1	71.0	Natural Gas Steam Turbine	NG	ST
2019	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	1	38.0	Natural Gas Steam Turbine	NG	ST
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	41.5	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	43.4	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	30.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Higgins	FL	630	P4	30.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	2	173.0	Conventional Steam Coal	BIT	ST
2020	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	3	173.0	Conventional Steam Coal	BIT	ST
2020	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	ST1	173.0	Conventional Steam Coal	BIT	ST
2020	6	58177	Raven Power Holdings LLC	IPP	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	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	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	4	96.3	Conventional Steam Coal	SUB	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	174.0	Natural Gas Steam Turbine	NG	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	177.0	Natural Gas Steam Turbine	NG	ST
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D1	0.2	Petroleum Liquids	DFO	IC
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D2	0.1	Petroleum Liquids	DFO	IC
2020	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	2	90.0	Natural Gas Steam Turbine	NG	ST
2020	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	1	670.0	Conventional Steam Coal	SUB	ST
2021	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	1	76.0	Natural Gas Steam Turbine	NG	ST
2021	1	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
2021	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST
2021	6	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	3	80.0	Conventional Steam Coal	SUB	ST
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	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	12686	Mississippi Power Co	Electric Utility	Sweatt	MS	2048	1	46.0	Natural Gas Steam Turbine	NG	ST
2021	12	12686	Mississippi Power Co	Electric Utility	Sweatt	MS	2048	2	46.0	Natural Gas Steam Turbine	NG	ST
2021	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	BIT	ST
2022	1	59409	Eco Services Operations LLC	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	OTH	ST
2022	8	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	Natural Gas Steam Turbine	NG	ST
2022	9	177	AES Hawaii Inc	Electric CHP	AES Hawaii	HI	10673	GEN1	180.0	Conventional Steam Coal	BIT	ST
2022	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	1	107.0	Natural Gas Steam Turbine	NG	ST
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY1	0.7	Conventional Hydroelectric	WAT	HY
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY2	0.7	Conventional Hydroelectric	WAT	HY
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT1	1.5	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT2	1.8	Landfill Gas	LFG	IC
2023	3	57173	AC Landfill Energy LLC	IPP	AC Landfill Energy LLC	NJ	57845	UNIT3	1.8	Landfill Gas	LFG	IC
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTA	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTB	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTC	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	STM	24.0	Natural Gas Fired Combined Cycle	NG	CA
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTA	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTB	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	GTC	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13365	Nevada Cogeneration Assoc # 2	Electric CHP	Nevada Cogen Associates 2 Black Mountain	NV	54349	STM	28.0	Natural Gas Fired Combined Cycle	NG	CA
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
2023	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	6	166.0	Natural Gas Steam Turbine	NG	ST
2023	12	17718	Southwestern Public Service Co	Electric Utility	Nichols	TX	3484	2	106.0	Natural Gas Steam Turbine	NG	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN1	18.0	Natural Gas Steam Turbine	NG	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN3	18.0	Natural Gas Steam Turbine	NG	ST
2024	12	17718	Southwestern Public Service Co	Electric Utility	Plant X	TX	3485	3	93.0	Natural Gas Steam Turbine	NG	ST
2025	12	17718	Southwestern Public Service Co	Electric Utility	Carlsbad	NM	2453	5	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Cunningham	NM	2454	2	183.0	Natural Gas Steam Turbine	NG	ST
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	2	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	17718	Southwestern Public Service Co	Electric Utility	Maddox	NM	2446	3	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2025	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	2	670.0	Conventional Steam Coal	SUB	ST
2034	3	58710	Lakeswind Power Partners	IPP	Lakeswind Power Partners	MN	58836	LW1	50.0	Onshore Wind Turbine	WND	WT
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
2050	7	59381	EE Kettleman California LLC	IPP	Kettleman Solar -Centaurus	CA	59633	KS	20.0	Solar Photovoltaic	SUN	PV
2051	1	12199	Montana-Dakota Utilities Co	IPP	Thunder Spirit Wind, LLC	ND	58965	THNDR	107.5	Onshore Wind Turbine	WND	WT

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-January 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%

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-January 2016

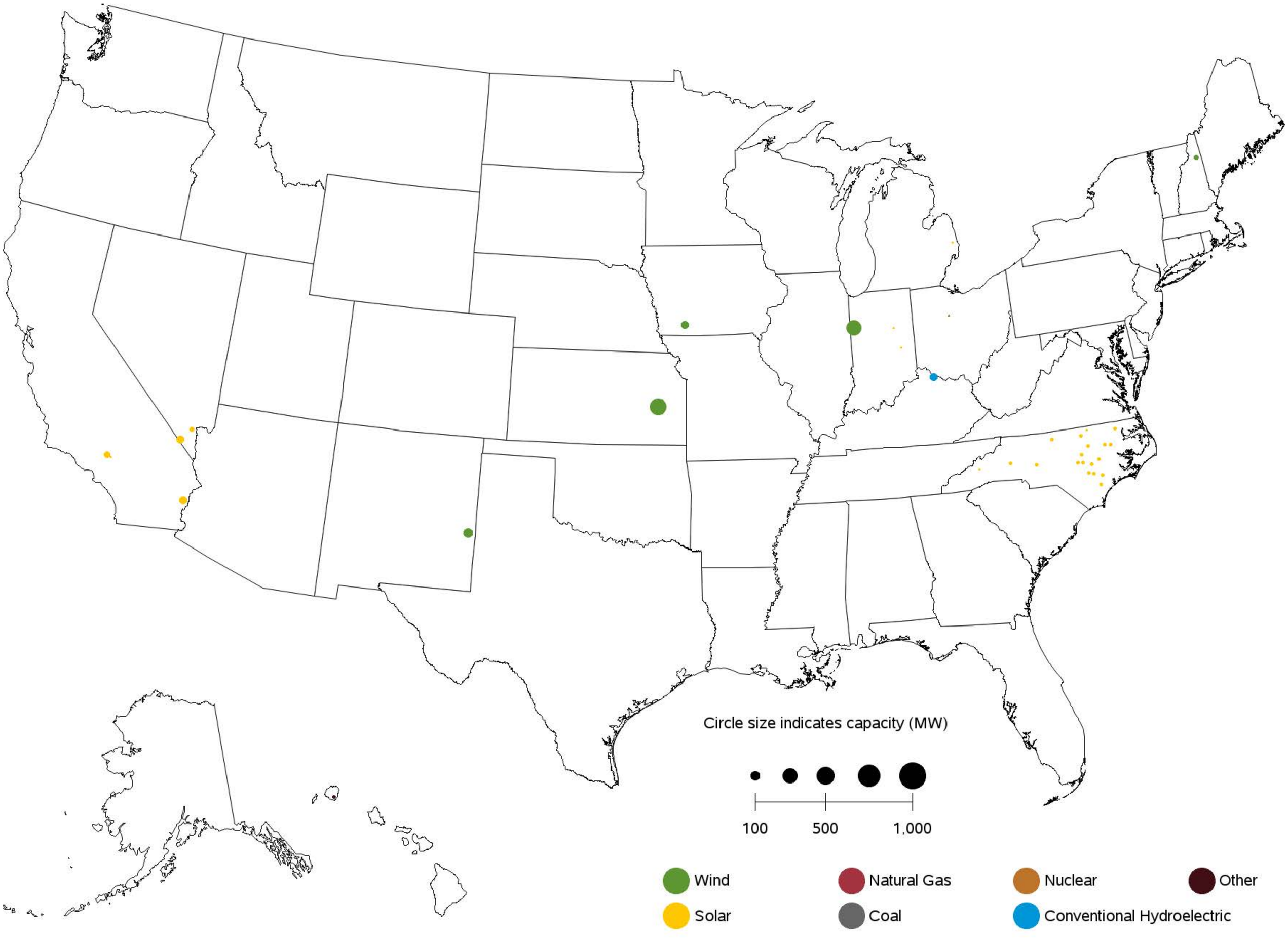
Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
2015	92.2%	35.9%	32.5%	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%	38.7%	34.2%	17.9%	6.9%	69.2%	52.3%	72.8%

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.

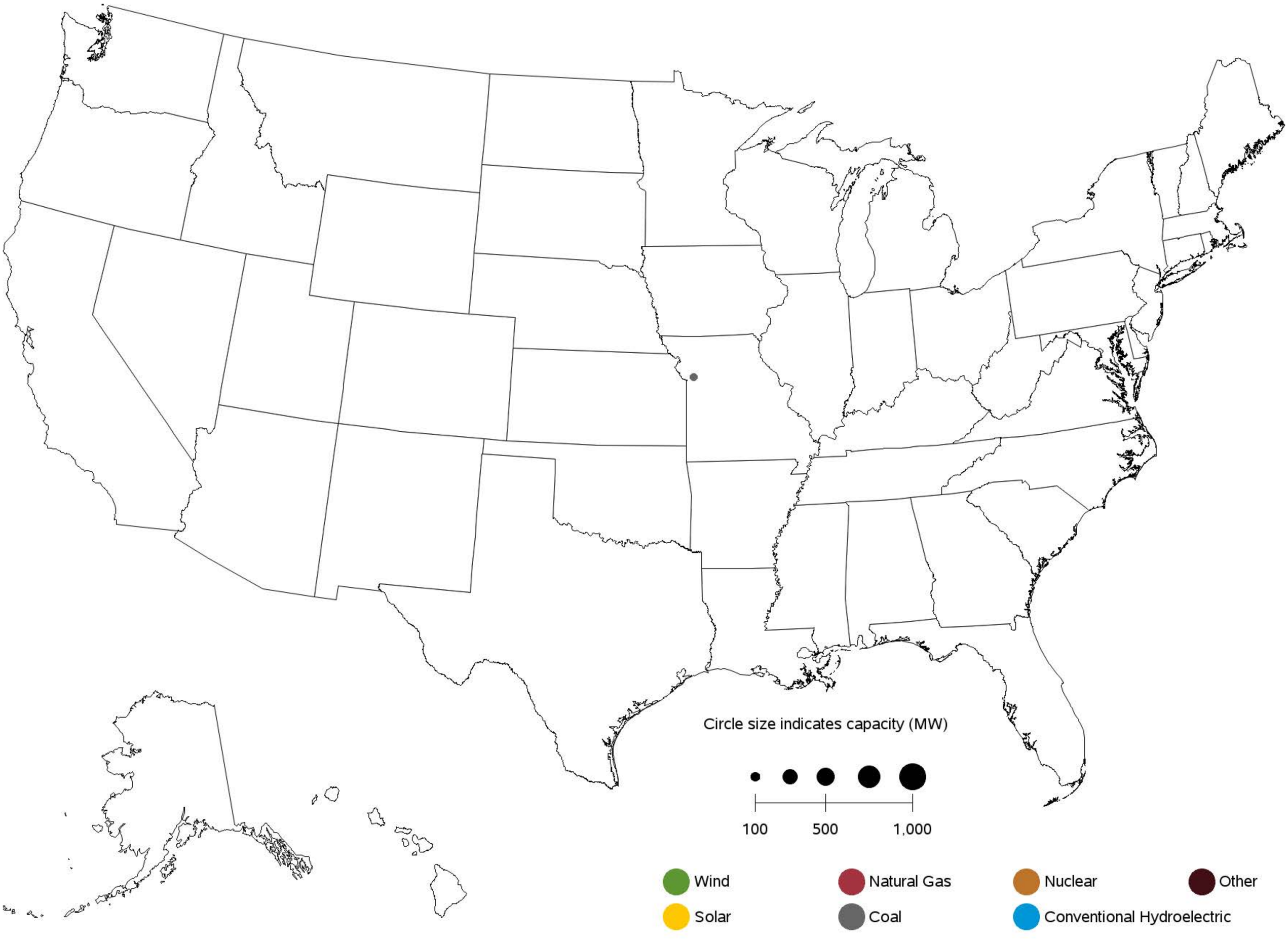
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



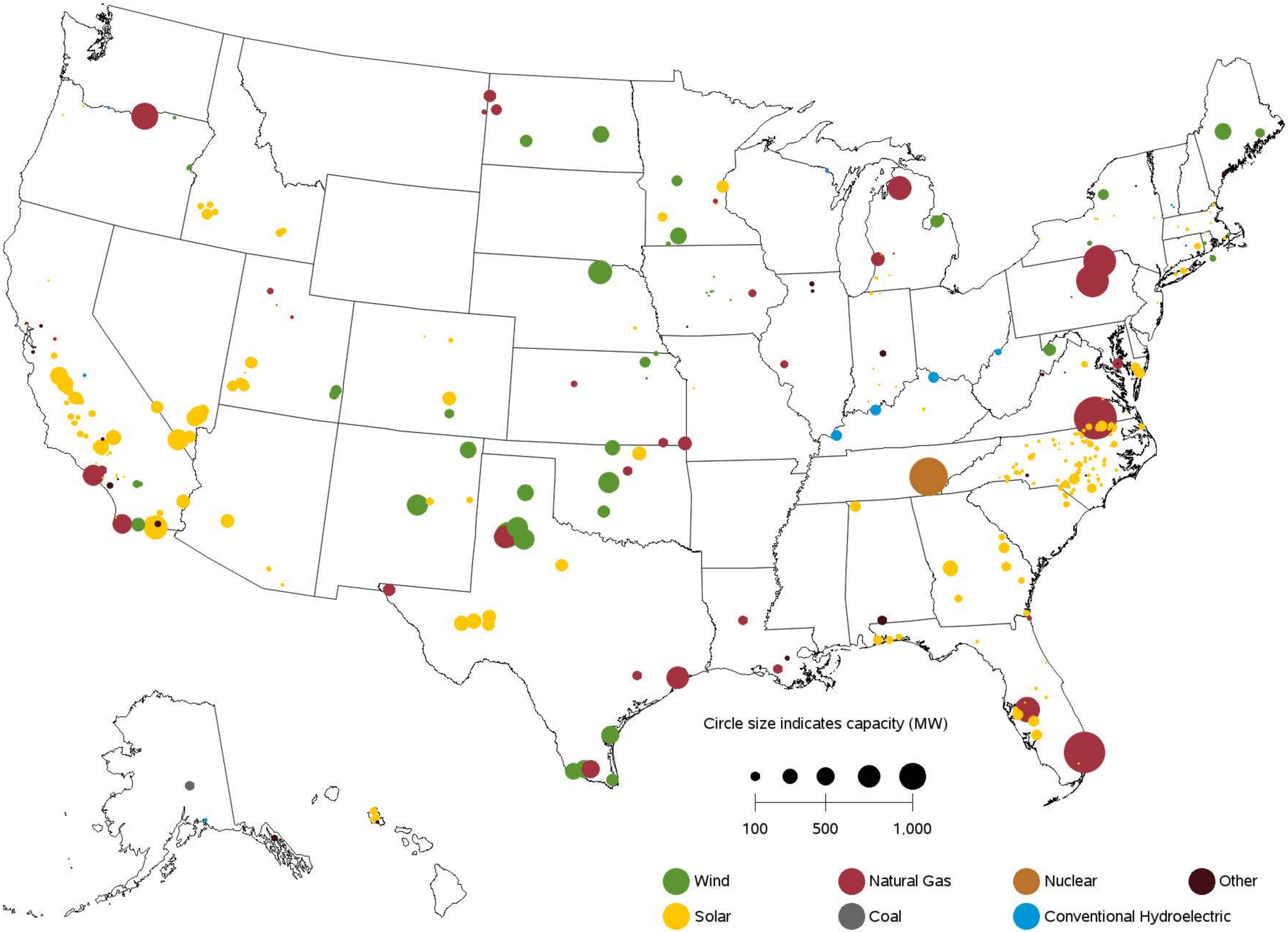
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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



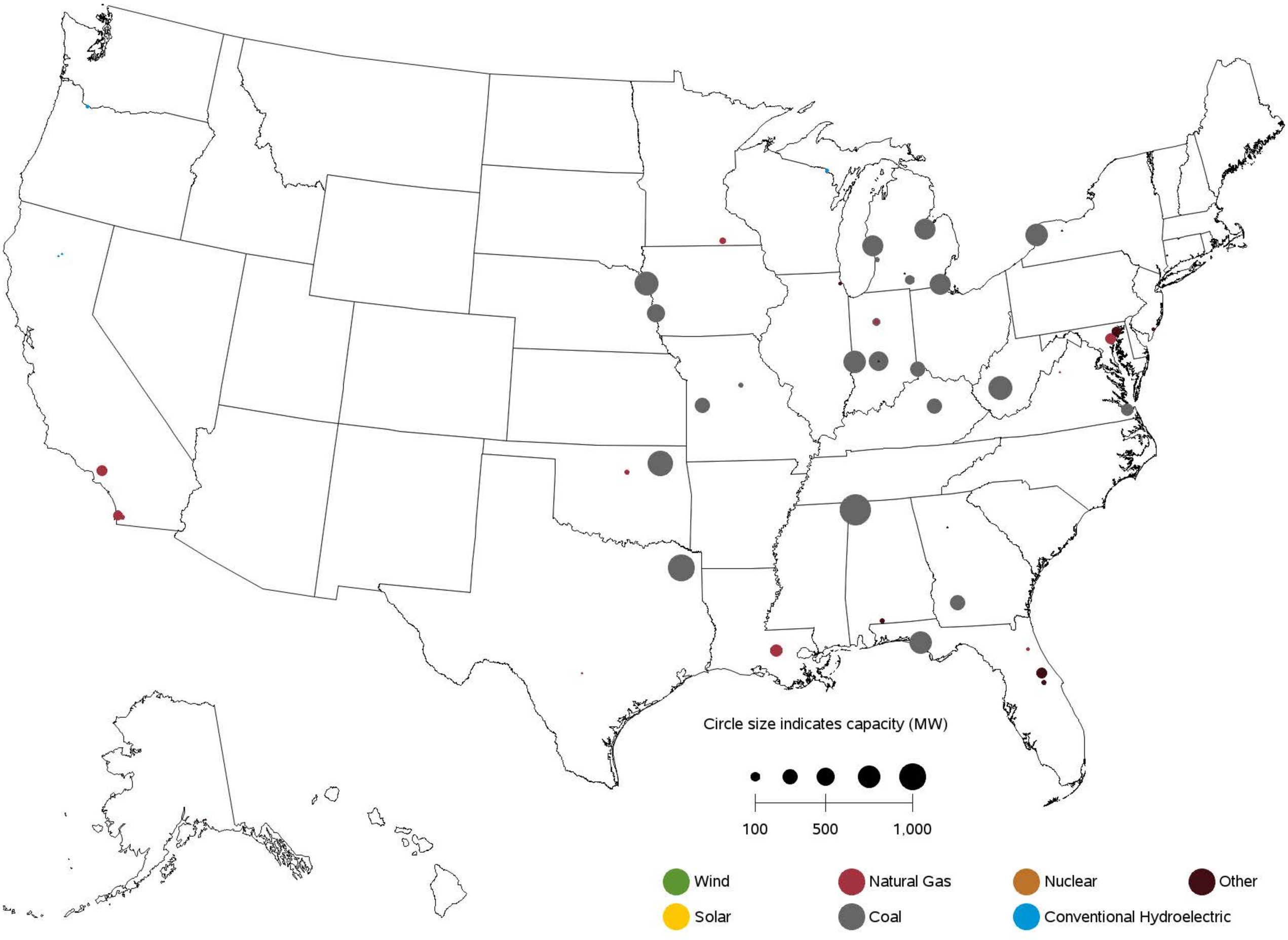
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**7**	**0**	**2**	**0**	**0**	**10**
Connecticut	0	15	0	2	0	0	45
Maine	0	4	0	5	0	0	14
Massachusetts	1	13	0	3	0	0	27
New Hampshire	0	72	0	2	0	0	19
Rhode Island	0	24	0	2	0	0	415
Vermont	0	202	0	0	0	0	27
Middle Atlantic	**1**	**4**	**117**	**2**	**24**	**0**	**3**
New Jersey	0	9	214	2	53	0	147
New York	5	5	0	3	0	0	3
Pennsylvania	2	7	132	2	21	0	11
East North Central	**1**	**4**	**10**	**2**	**9**	**0**	**19**
Illinois	3	8	0	3	36	0	68
Indiana	0	5	0	2	12	0	27
Michigan	1	10	108	6	0	0	40
Ohio	1	2	379	1	23	0	30
Wisconsin	0	57	0	3	0	0	33
West North Central	**0**	**14**	**153**	**5**	**96**	**0**	**5**
Iowa	2	31	153	14	0	0	53
Kansas	0	15	0	31	0	0	200
Minnesota	2	49	0	6	0	0	66
Missouri	0	3	0	10	0	0	5
Nebraska	2	60	0	47	0	0	48
North Dakota	1	65	0	61	96	0	0
South Dakota	0	261	0	20	0	0	1
South Atlantic	**0**	**2**	**0**	**0**	**0**	**0**	**4**
Delaware	0	4	0	7	0	0	0
District of Columbia	0	0	0	120	0	0	0
Florida	1	9	0	1	0	0	65
Georgia	0	6	0	0	0	0	9
Maryland	0	4	0	14	0	0	4
North Carolina	1	4	0	0	0	0	5
South Carolina	0	11	0	1	0	0	8
Virginia	1	1	0	0	0	0	15
West Virginia	0	0	0	5	0	0	20
East South Central	**0**	**6**	**0**	**1**	**81**	**0**	**3**
Alabama	1	19	0	2	105	0	4
Kentucky	1	4	0	3	0	0	8
Mississippi	0	10	0	1	0	0	0
Tennessee	0	3	0	1	0	0	6
West South Central	**0**	**6**	**7**	**1**	**4**	**0**	**6**
Arkansas	0	0	0	1	0	0	8
Louisiana	0	1	7	1	4	0	0
Oklahoma	1	28	0	1	0	0	8
Texas	0	16	79	1	6	0	25
Mountain	**1**	**19**	**0**	**1**	**11**	**0**	**5**
Arizona	0	15	0	0	0	0	3
Colorado	0	337	0	1	0	0	27
Idaho	59	13,142	0	6	0	0	13
Montana	4	113	0	35	0	0	8
Nevada	0	0	0	1	0	0	7
New Mexico	0	27	0	4	0	0	146
Utah	1	44	0	5	0	0	66
Wyoming	2	13	0	46	11	0	23
Pacific Contiguous	**0**	**32**	**0**	**1**	**5**	**0**	**2**
California	0	36	0	2	6	0	10
Oregon	0	77	0	2	0	0	4
Washington	0	81	0	2	0	0	2
Pacific Noncontiguous	**5**	**2**	**0**	**15**	**83**	**0**	**24**
Alaska	9	6	0	15	0	0	24
Hawaii	5	2	0	0	83	0	165
U.S. Total	**0**	**2**	**5**	**0**	**4**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, January 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**	**21**	**3**	**0**	**4**	**1**
Connecticut	0	0	0	123	4	0	5	1
Maine	0	0	0	0	1	0	15	4
Massachusetts	0	0	0	22	8	0	5	2
New Hampshire	0	0	0	0	11	0	32	2
Rhode Island	0	0	0	150	11	0	0	2
Vermont	0	0	0	72	11	0	0	18
Middle Atlantic	**0**	**0**	**0**	**18**	**2**	**0**	**4**	**1**
New Jersey	0	0	0	21	8	0	5	1
New York	0	0	0	35	2	0	7	1
Pennsylvania	0	0	0	65	2	0	6	1
East North Central	**0**	**0**	**0**	**28**	**1**	**0**	**7**	**0**
Illinois	0	0	0	71	1	0	25	1
Indiana	0	0	0	35	1	0	4	0
Michigan	0	0	0	193	3	0	10	1
Ohio	0	0	0	65	4	0	45	1
Wisconsin	0	0	0	460	5	0	39	1
West North Central	**0**	**0**	**0**	**94**	**1**	**0**	**10**	**0**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	381	0	0	236	0
Minnesota	0	0	0	196	2	0	11	1
Missouri	0	0	0	112	3	0	6	0
Nebraska	0	0	0	0	1	0	0	1
North Dakota	0	0	0	0	1	0	43	1
South Dakota	0	0	0	0	2	0	0	2
South Atlantic	**0**	**0**	**0**	**8**	**2**	**0**	**3**	**0**
Delaware	0	0	0	72	32	0	0	4
District of Columbia	0	0	0	0	0	0	0	120
Florida	0	0	0	26	4	0	3	0
Georgia	0	0	0	14	3	0	0	0
Maryland	0	0	0	39	4	0	1	1
North Carolina	0	0	0	10	6	0	20	1
South Carolina	0	0	0	155	5	0	31	1
Virginia	0	0	0	0	2	0	8	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**57**	**4**	**0**	**12**	**0**
Alabama	0	0	0	0	6	0	0	1
Kentucky	0	0	0	0	6	0	0	1
Mississippi	0	0	0	0	4	0	184	0
Tennessee	0	0	0	57	10	0	0	1
West South Central	**0**	**0**	**0**	**9**	**0**	**0**	**9**	**0**
Arkansas	0	0	0	110	4	0	0	1
Louisiana	0	0	0	0	6	0	10	1
Oklahoma	0	0	0	0	0	0	94	1
Texas	0	0	0	9	0	0	12	0
Mountain	**0**	**7**	**0**	**3**	**1**	**0**	**5**	**1**
Arizona	0	0	0	4	3	0	0	0
Colorado	0	0	0	17	1	0	60	1
Idaho	0	74	0	0	7	0	0	6
Montana	0	0	0	0	4	0	0	3
Nevada	0	8	0	5	6	0	61	1
New Mexico	0	193	0	17	2	0	316	1
Utah	0	14	0	14	7	0	5	1
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	**0**	**6**	**0**	**3**	**2**	**0**	**9**	**1**
California	0	6	0	3	2	0	11	1
Oregon	0	12	0	85	4	0	34	2
Washington	0	0	0	0	2	0	14	1
Pacific Noncontiguous	**0**	**0**	**0**	**59**	**8**	**0**	**6**	**4**
Alaska	0	0	0	0	32	0	770	9
Hawaii	0	0	0	59	6	0	0	2
U.S. Total	**0**	**5**	**0**	**3**	**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 January 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**7**	**0**	**2**	**0**	**0**	**10**
Connecticut	0	15	0	2	0	0	45
Maine	0	4	0	5	0	0	14
Massachusetts	1	13	0	3	0	0	27
New Hampshire	0	72	0	2	0	0	19
Rhode Island	0	24	0	2	0	0	415
Vermont	0	202	0	0	0	0	27
Middle Atlantic	**1**	**4**	**117**	**2**	**24**	**0**	**3**
New Jersey	0	9	214	2	53	0	147
New York	5	5	0	3	0	0	3
Pennsylvania	2	7	132	2	21	0	11
East North Central	**1**	**4**	**10**	**2**	**9**	**0**	**19**
Illinois	3	8	0	3	36	0	68
Indiana	0	5	0	2	12	0	27
Michigan	1	10	108	6	0	0	40
Ohio	1	2	379	1	23	0	30
Wisconsin	0	57	0	3	0	0	33
West North Central	**0**	**14**	**153**	**5**	**96**	**0**	**5**
Iowa	2	31	153	14	0	0	53
Kansas	0	15	0	31	0	0	200
Minnesota	2	49	0	6	0	0	66
Missouri	0	3	0	10	0	0	5
Nebraska	2	60	0	47	0	0	48
North Dakota	1	65	0	61	96	0	0
South Dakota	0	261	0	20	0	0	1
South Atlantic	**0**	**2**	**0**	**0**	**0**	**0**	**4**
Delaware	0	4	0	7	0	0	0
District of Columbia	0	0	0	120	0	0	0
Florida	1	9	0	1	0	0	65
Georgia	0	6	0	0	0	0	9
Maryland	0	4	0	14	0	0	4
North Carolina	1	4	0	0	0	0	5
South Carolina	0	11	0	1	0	0	8
Virginia	1	1	0	0	0	0	15
West Virginia	0	0	0	5	0	0	20
East South Central	**0**	**6**	**0**	**1**	**81**	**0**	**3**
Alabama	1	19	0	2	105	0	4
Kentucky	1	4	0	3	0	0	8
Mississippi	0	10	0	1	0	0	0
Tennessee	0	3	0	1	0	0	6
West South Central	**0**	**6**	**7**	**1**	**4**	**0**	**6**
Arkansas	0	0	0	1	0	0	8
Louisiana	0	1	7	1	4	0	0
Oklahoma	1	28	0	1	0	0	8
Texas	0	16	79	1	6	0	25
Mountain	**1**	**19**	**0**	**1**	**11**	**0**	**5**
Arizona	0	15	0	0	0	0	3
Colorado	0	337	0	1	0	0	27
Idaho	59	13,142	0	6	0	0	13
Montana	4	113	0	35	0	0	8
Nevada	0	0	0	1	0	0	7
New Mexico	0	27	0	4	0	0	146
Utah	1	44	0	5	0	0	66
Wyoming	2	13	0	46	11	0	23
Pacific Contiguous	**0**	**32**	**0**	**1**	**5**	**0**	**2**
California	0	36	0	2	6	0	10
Oregon	0	77	0	2	0	0	4
Washington	0	81	0	2	0	0	2
Pacific Noncontiguous	**5**	**2**	**0**	**15**	**83**	**0**	**24**
Alaska	9	6	0	15	0	0	24
Hawaii	5	2	0	0	83	0	165
U.S. Total	**0**	**2**	**5**	**0**	**4**	**0**	**2**

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

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

Total (All Sectors) by Census Division and State, Year-to-Date through January 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**	**21**	**3**	**0**	**4**	**1**
Connecticut	0	0	0	123	4	0	5	1
Maine	0	0	0	0	1	0	15	4
Massachusetts	0	0	0	22	8	0	5	2
New Hampshire	0	0	0	0	11	0	32	2
Rhode Island	0	0	0	150	11	0	0	2
Vermont	0	0	0	72	11	0	0	18
Middle Atlantic	**0**	**0**	**0**	**18**	**2**	**0**	**4**	**1**
New Jersey	0	0	0	21	8	0	5	1
New York	0	0	0	35	2	0	7	1
Pennsylvania	0	0	0	65	2	0	6	1
East North Central	**0**	**0**	**0**	**28**	**1**	**0**	**7**	**0**
Illinois	0	0	0	71	1	0	25	1
Indiana	0	0	0	35	1	0	4	0
Michigan	0	0	0	193	3	0	10	1
Ohio	0	0	0	65	4	0	45	1
Wisconsin	0	0	0	460	5	0	39	1
West North Central	**0**	**0**	**0**	**94**	**1**	**0**	**10**	**0**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	381	0	0	236	0
Minnesota	0	0	0	196	2	0	11	1
Missouri	0	0	0	112	3	0	6	0
Nebraska	0	0	0	0	1	0	0	1
North Dakota	0	0	0	0	1	0	43	1
South Dakota	0	0	0	0	2	0	0	2
South Atlantic	**0**	**0**	**0**	**8**	**2**	**0**	**3**	**0**
Delaware	0	0	0	72	32	0	0	4
District of Columbia	0	0	0	0	0	0	0	120
Florida	0	0	0	26	4	0	3	0
Georgia	0	0	0	14	3	0	0	0
Maryland	0	0	0	39	4	0	1	1
North Carolina	0	0	0	10	6	0	20	1
South Carolina	0	0	0	155	5	0	31	1
Virginia	0	0	0	0	2	0	8	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**57**	**4**	**0**	**12**	**0**
Alabama	0	0	0	0	6	0	0	1
Kentucky	0	0	0	0	6	0	0	1
Mississippi	0	0	0	0	4	0	184	0
Tennessee	0	0	0	57	10	0	0	1
West South Central	**0**	**0**	**0**	**9**	**0**	**0**	**9**	**0**
Arkansas	0	0	0	110	4	0	0	1
Louisiana	0	0	0	0	6	0	10	1
Oklahoma	0	0	0	0	0	0	94	1
Texas	0	0	0	9	0	0	12	0
Mountain	**0**	**7**	**0**	**3**	**1**	**0**	**5**	**1**
Arizona	0	0	0	4	3	0	0	0
Colorado	0	0	0	17	1	0	60	1
Idaho	0	74	0	0	7	0	0	6
Montana	0	0	0	0	4	0	0	3
Nevada	0	8	0	5	6	0	61	1
New Mexico	0	193	0	17	2	0	316	1
Utah	0	14	0	14	7	0	5	1
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	**0**	**6**	**0**	**3**	**2**	**0**	**9**	**1**
California	0	6	0	3	2	0	11	1
Oregon	0	12	0	85	4	0	34	2
Washington	0	0	0	0	2	0	14	1
Pacific Noncontiguous	**0**	**0**	**0**	**59**	**8**	**0**	**6**	**4**
Alaska	0	0	0	0	32	0	770	9
Hawaii	0	0	0	59	6	0	0	2
U.S. Total	**0**	**5**	**0**	**3**	**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, January 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**6**	**0**	**68**	**0**	**0**	**25**
Connecticut	0	36	0	0	0	0	158
Maine	0	216	0	0	0	0	0
Massachusetts	0	3	0	70	0	0	60
New Hampshire	0	27	0	0	0	0	22
Rhode Island	0	26	0	0	0	0	0
Vermont	0	168	0	0	0	0	44
Middle Atlantic	**0**	**4**	**0**	**7**	**0**	**0**	**2**
New Jersey	0	268	0	185	0	0	0
New York	0	4	0	6	0	0	2
Pennsylvania	0	81	0	627	0	0	104
East North Central	**1**	**6**	**0**	**1**	**82**	**0**	**20**
Illinois	20	36	0	50	0	0	134
Indiana	0	4	0	1	167	0	27
Michigan	1	10	0	6	0	0	42
Ohio	2	2	0	2	0	0	21
Wisconsin	0	61	0	1	0	0	35
West North Central	**0**	**15**	**0**	**4**	**0**	**0**	**5**
Iowa	2	32	0	5	0	0	53
Kansas	0	15	0	29	0	0	0
Minnesota	2	82	0	2	0	0	87
Missouri	0	3	0	14	0	0	5
Nebraska	2	60	0	54	0	0	48
North Dakota	1	66	0	54	0	0	0
South Dakota	0	266	0	20	0	0	1
South Atlantic	**0**	**2**	**0**	**0**	**0**	**0**	**4**
Delaware	0	142	0	293	0	0	0
Florida	0	8	0	1	0	0	65
Georgia	0	11	0	0	0	0	9
Maryland	0	29	0	0	0	0	0
North Carolina	0	6	0	0	0	0	5
South Carolina	0	12	0	0	0	0	8
Virginia	0	1	0	0	0	0	15
West Virginia	0	0	0	0	0	0	45
East South Central	**0**	**2**	**0**	**1**	**0**	**0**	**3**
Alabama	1	0	0	5	0	0	4
Kentucky	1	4	0	3	0	0	8
Mississippi	0	10	0	1	0	0	0
Tennessee	0	1	0	0	0	0	6
West South Central	**0**	**4**	**0**	**1**	**0**	**0**	**6**
Arkansas	0	0	0	0	0	0	8
Louisiana	0	1	0	0	0	0	0
Oklahoma	0	3	0	1	0	0	8
Texas	0	12	0	2	0	0	25
Mountain	**0**	**22**	**0**	**1**	**0**	**0**	**5**
Arizona	0	15	0	1	0	0	3
Colorado	0	338	0	0	0	0	26
Idaho	0	13,142	0	3	0	0	13
Montana	98	479	0	37	0	0	7
Nevada	0	0	0	0	0	0	3
New Mexico	0	27	0	6	0	0	146
Utah	0	5	0	2	0	0	66
Wyoming	2	4	0	266	0	0	21
Pacific Contiguous	**0**	**25**	**0**	**2**	**0**	**0**	**2**
California	0	18	0	3	0	0	9
Oregon	0	0	0	0	0	0	4
Washington	0	239	0	3	0	0	2
Pacific Noncontiguous	**0**	**1**	**0**	**12**	**0**	**0**	**24**
Alaska	0	7	0	12	0	0	24
Hawaii	0	1	0	0	0	0	326
U.S. Total	**0**	**1**	**0**	**0**	**82**	**0**	**1**

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

Electric Utilities by Census Division and State, January 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**	**135**	**4**	**0**	**0**	**10**
Connecticut	0	0	0	0	0	0	0	136
Maine	0	0	0	0	0	0	0	216
Massachusetts	0	0	0	135	65	0	0	42
New Hampshire	0	0	0	0	0	0	0	5
Rhode Island	0	0	0	0	0	0	0	26
Vermont	0	0	0	0	0	0	0	22
Middle Atlantic	**0**	**0**	**0**	**54**	**54**	**0**	**0**	**2**
New Jersey	0	0	0	54	54	0	0	25
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	105
East North Central	**0**	**0**	**0**	**72**	**2**	**0**	**26**	**1**
Illinois	0	0	0	311	132	0	0	19
Indiana	0	0	0	90	16	0	0	0
Michigan	0	0	0	193	2	0	57	1
Ohio	0	0	0	169	84	0	0	2
Wisconsin	0	0	0	0	1	0	0	1
West North Central	**0**	**0**	**0**	**0**	**1**	**0**	**5**	**0**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	0	0	0	0	0
Minnesota	0	0	0	0	4	0	0	1
Missouri	0	0	0	0	41	0	6	0
Nebraska	0	0	0	0	14	0	0	2
North Dakota	0	0	0	0	2	0	43	1
South Dakota	0	0	0	0	1	0	0	2
South Atlantic	**0**	**0**	**0**	**14**	**2**	**0**	**0**	**0**
Delaware	0	0	0	206	206	0	0	244
Florida	0	0	0	9	4	0	0	0
Georgia	0	0	0	25	25	0	0	0
Maryland	0	0	0	176	176	0	0	54
North Carolina	0	0	0	22	22	0	0	0
South Carolina	0	0	0	0	7	0	0	1
Virginia	0	0	0	0	0	0	0	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**36**	**0**	**0**	**0**
Alabama	0	0	0	0	520	0	0	1
Kentucky	0	0	0	0	29	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0	1
Louisiana	0	0	0	0	0	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	0	0	0	0	1
Mountain	**0**	**0**	**0**	**16**	**2**	**0**	**60**	**1**
Arizona	0	0	0	16	16	0	0	0
Colorado	0	0	0	0	11	0	0	1
Idaho	0	0	0	0	5	0	0	9
Montana	0	0	0	0	0	0	0	8
Nevada	0	0	0	98	98	0	61	0
New Mexico	0	0	0	45	45	0	316	1
Utah	0	0	0	0	0	0	0	1
Wyoming	0	0	0	0	1	0	0	1
Pacific Contiguous	**0**	**4**	**0**	**24**	**2**	**0**	**284**	**1**
California	0	0	0	24	5	0	284	2
Oregon	0	216	0	204	7	0	0	3
Washington	0	0	0	0	1	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**78**	**31**	**0**	**846**	**4**
Alaska	0	0	0	0	50	0	770	8
Hawaii	0	0	0	78	27	0	0	2
U.S. Total	**0**	**3**	**0**	**11**	**1**	**0**	**4**	**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 January 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**6**	**0**	**68**	**0**	**0**	**25**
Connecticut	0	36	0	0	0	0	158
Maine	0	216	0	0	0	0	0
Massachusetts	0	3	0	70	0	0	60
New Hampshire	0	27	0	0	0	0	22
Rhode Island	0	26	0	0	0	0	0
Vermont	0	168	0	0	0	0	44
Middle Atlantic	**0**	**4**	**0**	**7**	**0**	**0**	**2**
New Jersey	0	268	0	185	0	0	0
New York	0	4	0	6	0	0	2
Pennsylvania	0	81	0	627	0	0	104
East North Central	**1**	**6**	**0**	**1**	**82**	**0**	**20**
Illinois	20	36	0	50	0	0	134
Indiana	0	4	0	1	167	0	27
Michigan	1	10	0	6	0	0	42
Ohio	2	2	0	2	0	0	21
Wisconsin	0	61	0	1	0	0	35
West North Central	**0**	**15**	**0**	**4**	**0**	**0**	**5**
Iowa	2	32	0	5	0	0	53
Kansas	0	15	0	29	0	0	0
Minnesota	2	82	0	2	0	0	87
Missouri	0	3	0	14	0	0	5
Nebraska	2	60	0	54	0	0	48
North Dakota	1	66	0	54	0	0	0
South Dakota	0	266	0	20	0	0	1
South Atlantic	**0**	**2**	**0**	**0**	**0**	**0**	**4**
Delaware	0	142	0	293	0	0	0
Florida	0	8	0	1	0	0	65
Georgia	0	11	0	0	0	0	9
Maryland	0	29	0	0	0	0	0
North Carolina	0	6	0	0	0	0	5
South Carolina	0	12	0	0	0	0	8
Virginia	0	1	0	0	0	0	15
West Virginia	0	0	0	0	0	0	45
East South Central	**0**	**2**	**0**	**1**	**0**	**0**	**3**
Alabama	1	0	0	5	0	0	4
Kentucky	1	4	0	3	0	0	8
Mississippi	0	10	0	1	0	0	0
Tennessee	0	1	0	0	0	0	6
West South Central	**0**	**4**	**0**	**1**	**0**	**0**	**6**
Arkansas	0	0	0	0	0	0	8
Louisiana	0	1	0	0	0	0	0
Oklahoma	0	3	0	1	0	0	8
Texas	0	12	0	2	0	0	25
Mountain	**0**	**22**	**0**	**1**	**0**	**0**	**5**
Arizona	0	15	0	1	0	0	3
Colorado	0	338	0	0	0	0	26
Idaho	0	13,142	0	3	0	0	13
Montana	98	479	0	37	0	0	7
Nevada	0	0	0	0	0	0	3
New Mexico	0	27	0	6	0	0	146
Utah	0	5	0	2	0	0	66
Wyoming	2	4	0	266	0	0	21
Pacific Contiguous	**0**	**25**	**0**	**2**	**0**	**0**	**2**
California	0	18	0	3	0	0	9
Oregon	0	0	0	0	0	0	4
Washington	0	239	0	3	0	0	2
Pacific Noncontiguous	**0**	**1**	**0**	**12**	**0**	**0**	**24**
Alaska	0	7	0	12	0	0	24
Hawaii	0	1	0	0	0	0	326
U.S. Total	**0**	**1**	**0**	**0**	**82**	**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.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Electric Utilities by Census Division and State, Year-to-Date through January 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**	**135**	**4**	**0**	**0**	**10**
Connecticut	0	0	0	0	0	0	0	136
Maine	0	0	0	0	0	0	0	216
Massachusetts	0	0	0	135	65	0	0	42
New Hampshire	0	0	0	0	0	0	0	5
Rhode Island	0	0	0	0	0	0	0	26
Vermont	0	0	0	0	0	0	0	22
Middle Atlantic	**0**	**0**	**0**	**54**	**54**	**0**	**0**	**2**
New Jersey	0	0	0	54	54	0	0	25
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	105
East North Central	**0**	**0**	**0**	**72**	**2**	**0**	**26**	**1**
Illinois	0	0	0	311	132	0	0	19
Indiana	0	0	0	90	16	0	0	0
Michigan	0	0	0	193	2	0	57	1
Ohio	0	0	0	169	84	0	0	2
Wisconsin	0	0	0	0	1	0	0	1
West North Central	**0**	**0**	**0**	**0**	**1**	**0**	**5**	**0**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	0	0	0	0	0
Minnesota	0	0	0	0	4	0	0	1
Missouri	0	0	0	0	41	0	6	0
Nebraska	0	0	0	0	14	0	0	2
North Dakota	0	0	0	0	2	0	43	1
South Dakota	0	0	0	0	1	0	0	2
South Atlantic	**0**	**0**	**0**	**14**	**2**	**0**	**0**	**0**
Delaware	0	0	0	206	206	0	0	244
Florida	0	0	0	9	4	0	0	0
Georgia	0	0	0	25	25	0	0	0
Maryland	0	0	0	176	176	0	0	54
North Carolina	0	0	0	22	22	0	0	0
South Carolina	0	0	0	0	7	0	0	1
Virginia	0	0	0	0	0	0	0	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**36**	**0**	**0**	**0**
Alabama	0	0	0	0	520	0	0	1
Kentucky	0	0	0	0	29	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Arkansas	0	0	0	0	0	0	0	1
Louisiana	0	0	0	0	0	0	0	0
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	0	0	0	0	1
Mountain	**0**	**0**	**0**	**16**	**2**	**0**	**60**	**1**
Arizona	0	0	0	16	16	0	0	0
Colorado	0	0	0	0	11	0	0	1
Idaho	0	0	0	0	5	0	0	9
Montana	0	0	0	0	0	0	0	8
Nevada	0	0	0	98	98	0	61	0
New Mexico	0	0	0	45	45	0	316	1
Utah	0	0	0	0	0	0	0	1
Wyoming	0	0	0	0	1	0	0	1
Pacific Contiguous	**0**	**4**	**0**	**24**	**2**	**0**	**284**	**1**
California	0	0	0	24	5	0	284	2
Oregon	0	216	0	204	7	0	0	3
Washington	0	0	0	0	1	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**78**	**31**	**0**	**846**	**4**
Alaska	0	0	0	0	50	0	770	8
Hawaii	0	0	0	78	27	0	0	2
U.S. Total	**0**	**3**	**0**	**11**	**1**	**0**	**4**	**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, January 2016

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**5**	**0**	**1**	**0**	**0**	**11**
Connecticut	0	14	0	1	0	0	47
Maine	0	1	0	0	0	0	15
Massachusetts	0	15	0	3	0	0	29
New Hampshire	0	969	0	0	0	0	25
Rhode Island	0	0	0	2	0	0	415
Vermont	0	0	0	0	0	0	34
Middle Atlantic	**1**	**6**	**0**	**1**	**0**	**0**	**10**
New Jersey	0	8	0	2	0	0	147
New York	6	11	0	4	0	0	14
Pennsylvania	2	7	0	2	0	0	10
East North Central	**0**	**3**	**0**	**2**	**10**	**0**	**46**
Illinois	0	0	0	2	0	0	64
Indiana	2	3,113	0	6	0	0	0
Michigan	5	0	0	6	0	0	128
Ohio	0	2	0	1	26	0	64
Wisconsin	0	227	0	3	0	0	160
West North Central	**92**	**13**	**0**	**12**	**0**	**0**	**96**
Iowa	0	101	0	0	0	0	624
Kansas	0	0	0	0	0	0	200
Minnesota	0	9	0	25	0	0	111
Missouri	92	0	0	5	0	0	0
South Dakota	0	369	0	0	0	0	0
South Atlantic	**1**	**2**	**0**	**1**	**0**	**0**	**8**
Delaware	0	4	0	8	0	0	0
Florida	0	133	0	7	0	0	0
Georgia	0	2	0	1	0	0	225
Maryland	0	4	0	11	0	0	4
North Carolina	76	4	0	0	0	0	118
South Carolina	0	82	0	15	0	0	106
Virginia	0	10	0	1	0	0	112
West Virginia	1	0	0	8	0	0	20
East South Central	**0**	**3**	**0**	**0**	**0**	**0**	**335**
Alabama	0	2	0	0	0	0	0
Kentucky	0	0	0	0	0	0	335
Mississippi	0	0	0	0	0	0	0
Tennessee	0	90	0	650	0	0	0
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**8**
Arkansas	0	0	0	0	0	0	148
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	1	0	0	0
Texas	0	0	0	0	0	0	159
Mountain	**4**	**14**	**0**	**2**	**0**	**0**	**53**
Arizona	0	0	0	0	0	0	0
Colorado	152	0	0	6	0	0	114
Idaho	0	0	0	12	0	0	71
Montana	3	7	0	129	0	0	129
Nevada	0	0	0	8	0	0	271
New Mexico	0	0	0	2	0	0	0
Utah	96	546	0	70	0	0	615
Wyoming	60	0	0	542	0	0	539
Pacific Contiguous	**0**	**118**	**0**	**1**	**0**	**0**	**39**
California	0	167	0	2	0	0	58
Oregon	0	0	0	1	0	0	75
Washington	0	46	0	0	0	0	73
Pacific Noncontiguous	**4**	**3**	**0**	**0**	**0**	**0**	**0**
Alaska	36	0	0	0	0	0	0
Hawaii	0	3	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**0**	**6**	**0**	**6**

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

Independent Power Producers by Census Division and State, January 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**	**21**	**4**	**0**	**3**	**1**
Connecticut	0	0	0	123	4	0	5	1
Maine	0	0	0	0	2	0	9	5
Massachusetts	0	0	0	22	8	0	5	2
New Hampshire	0	0	0	0	13	0	32	2
Rhode Island	0	0	0	150	9	0	0	2
Vermont	0	0	0	72	35	0	0	27
Middle Atlantic	**0**	**0**	**0**	**21**	**2**	**0**	**4**	**1**
New Jersey	0	0	0	26	9	0	7	1
New York	0	0	0	35	2	0	4	2
Pennsylvania	0	0	0	72	2	0	6	1
East North Central	**0**	**0**	**0**	**31**	**1**	**0**	**15**	**0**
Illinois	0	0	0	73	1	0	0	0
Indiana	0	0	0	39	1	0	0	1
Michigan	0	0	0	0	4	0	15	4
Ohio	0	0	0	74	3	0	69	0
Wisconsin	0	0	0	460	12	0	0	2
West North Central	**0**	**0**	**0**	**97**	**1**	**0**	**20**	**1**
Iowa	0	0	0	0	2	0	0	1
Kansas	0	0	0	381	0	0	0	1
Minnesota	0	0	0	196	3	0	20	4
Missouri	0	0	0	117	2	0	0	3
Nebraska	0	0	0	0	1	0	0	1
North Dakota	0	0	0	0	1	0	0	1
South Dakota	0	0	0	0	3	0	0	3
South Atlantic	**0**	**0**	**0**	**9**	**3**	**0**	**4**	**1**
Delaware	0	0	0	78	35	0	0	5
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	64	5	0	4	4
Georgia	0	0	0	16	10	0	0	1
Maryland	0	0	0	40	4	0	0	1
North Carolina	0	0	0	10	8	0	20	5
South Carolina	0	0	0	155	42	0	155	16
Virginia	0	0	0	0	6	0	0	1
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**58**	**10**	**0**	**0**	**0**
Alabama	0	0	0	0	8	0	0	0
Kentucky	0	0	0	0	121	0	0	11
Mississippi	0	0	0	0	78	0	0	0
Tennessee	0	0	0	58	22	0	0	30
West South Central	**0**	**0**	**0**	**9**	**0**	**0**	**103**	**0**
Arkansas	0	0	0	110	24	0	0	1
Louisiana	0	0	0	0	29	0	0	0
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	9	0	0	103	0
Mountain	**0**	**8**	**0**	**3**	**2**	**0**	**3**	**2**
Arizona	0	0	0	4	3	0	0	1
Colorado	0	0	0	16	1	0	120	2
Idaho	0	74	0	0	8	0	0	8
Montana	0	0	0	0	4	0	0	3
Nevada	0	8	0	4	6	0	0	5
New Mexico	0	193	0	17	2	0	0	1
Utah	0	27	0	14	9	0	214	25
Wyoming	0	0	0	0	3	0	0	13
Pacific Contiguous	**0**	**6**	**0**	**2**	**2**	**0**	**14**	**1**
California	0	6	0	2	3	0	17	1
Oregon	0	0	0	93	4	0	34	2
Washington	0	0	0	0	2	0	27	2
Pacific Noncontiguous	**0**	**0**	**0**	**92**	**11**	**0**	**0**	**3**
Alaska	0	0	0	0	77	0	0	32
Hawaii	0	0	0	92	9	0	0	2
U.S. Total	**0**	**6**	**0**	**2**	**1**	**0**	**2**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**5**	**0**	**1**	**0**	**0**	**11**
Connecticut	0	14	0	1	0	0	47
Maine	0	1	0	0	0	0	15
Massachusetts	0	15	0	3	0	0	29
New Hampshire	0	969	0	0	0	0	25
Rhode Island	0	0	0	2	0	0	415
Vermont	0	0	0	0	0	0	34
Middle Atlantic	**1**	**6**	**0**	**1**	**0**	**0**	**10**
New Jersey	0	8	0	2	0	0	147
New York	6	11	0	4	0	0	14
Pennsylvania	2	7	0	2	0	0	10
East North Central	**0**	**3**	**0**	**2**	**10**	**0**	**46**
Illinois	0	0	0	2	0	0	64
Indiana	2	3,113	0	6	0	0	0
Michigan	5	0	0	6	0	0	128
Ohio	0	2	0	1	26	0	64
Wisconsin	0	227	0	3	0	0	160
West North Central	**92**	**13**	**0**	**12**	**0**	**0**	**96**
Iowa	0	101	0	0	0	0	624
Kansas	0	0	0	0	0	0	200
Minnesota	0	9	0	25	0	0	111
Missouri	92	0	0	5	0	0	0
South Dakota	0	369	0	0	0	0	0
South Atlantic	**1**	**2**	**0**	**1**	**0**	**0**	**8**
Delaware	0	4	0	8	0	0	0
Florida	0	133	0	7	0	0	0
Georgia	0	2	0	1	0	0	225
Maryland	0	4	0	11	0	0	4
North Carolina	76	4	0	0	0	0	118
South Carolina	0	82	0	15	0	0	106
Virginia	0	10	0	1	0	0	112
West Virginia	1	0	0	8	0	0	20
East South Central	**0**	**3**	**0**	**0**	**0**	**0**	**335**
Alabama	0	2	0	0	0	0	0
Kentucky	0	0	0	0	0	0	335
Mississippi	0	0	0	0	0	0	0
Tennessee	0	90	0	650	0	0	0
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**8**
Arkansas	0	0	0	0	0	0	148
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	1	0	0	0
Texas	0	0	0	0	0	0	159
Mountain	**4**	**14**	**0**	**2**	**0**	**0**	**53**
Arizona	0	0	0	0	0	0	0
Colorado	152	0	0	6	0	0	114
Idaho	0	0	0	12	0	0	71
Montana	3	7	0	129	0	0	129
Nevada	0	0	0	8	0	0	271
New Mexico	0	0	0	2	0	0	0
Utah	96	546	0	70	0	0	615
Wyoming	60	0	0	542	0	0	539
Pacific Contiguous	**0**	**118**	**0**	**1**	**0**	**0**	**39**
California	0	167	0	2	0	0	58
Oregon	0	0	0	1	0	0	75
Washington	0	46	0	0	0	0	73
Pacific Noncontiguous	**4**	**3**	**0**	**0**	**0**	**0**	**0**
Alaska	36	0	0	0	0	0	0
Hawaii	0	3	0	0	0	0	0
U.S. Total	**0**	**2**	**0**	**0**	**6**	**0**	**6**

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

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

Independent Power Producers by Census Division and State, Year-to-Date through January 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**	**21**	**4**	**0**	**3**	**1**
Connecticut	0	0	0	123	4	0	5	1
Maine	0	0	0	0	2	0	9	5
Massachusetts	0	0	0	22	8	0	5	2
New Hampshire	0	0	0	0	13	0	32	2
Rhode Island	0	0	0	150	9	0	0	2
Vermont	0	0	0	72	35	0	0	27
Middle Atlantic	**0**	**0**	**0**	**21**	**2**	**0**	**4**	**1**
New Jersey	0	0	0	26	9	0	7	1
New York	0	0	0	35	2	0	4	2
Pennsylvania	0	0	0	72	2	0	6	1
East North Central	**0**	**0**	**0**	**31**	**1**	**0**	**15**	**0**
Illinois	0	0	0	73	1	0	0	0
Indiana	0	0	0	39	1	0	0	1
Michigan	0	0	0	0	4	0	15	4
Ohio	0	0	0	74	3	0	69	0
Wisconsin	0	0	0	460	12	0	0	2
West North Central	**0**	**0**	**0**	**97**	**1**	**0**	**20**	**1**
Iowa	0	0	0	0	2	0	0	1
Kansas	0	0	0	381	0	0	0	1
Minnesota	0	0	0	196	3	0	20	4
Missouri	0	0	0	117	2	0	0	3
Nebraska	0	0	0	0	1	0	0	1
North Dakota	0	0	0	0	1	0	0	1
South Dakota	0	0	0	0	3	0	0	3
South Atlantic	**0**	**0**	**0**	**9**	**3**	**0**	**4**	**1**
Delaware	0	0	0	78	35	0	0	5
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	64	5	0	4	4
Georgia	0	0	0	16	10	0	0	1
Maryland	0	0	0	40	4	0	0	1
North Carolina	0	0	0	10	8	0	20	5
South Carolina	0	0	0	155	42	0	155	16
Virginia	0	0	0	0	6	0	0	1
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**58**	**10**	**0**	**0**	**0**
Alabama	0	0	0	0	8	0	0	0
Kentucky	0	0	0	0	121	0	0	11
Mississippi	0	0	0	0	78	0	0	0
Tennessee	0	0	0	58	22	0	0	30
West South Central	**0**	**0**	**0**	**9**	**0**	**0**	**103**	**0**
Arkansas	0	0	0	110	24	0	0	1
Louisiana	0	0	0	0	29	0	0	0
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	9	0	0	103	0
Mountain	**0**	**8**	**0**	**3**	**2**	**0**	**3**	**2**
Arizona	0	0	0	4	3	0	0	1
Colorado	0	0	0	16	1	0	120	2
Idaho	0	74	0	0	8	0	0	8
Montana	0	0	0	0	4	0	0	3
Nevada	0	8	0	4	6	0	0	5
New Mexico	0	193	0	17	2	0	0	1
Utah	0	27	0	14	9	0	214	25
Wyoming	0	0	0	0	3	0	0	13
Pacific Contiguous	**0**	**6**	**0**	**2**	**2**	**0**	**14**	**1**
California	0	6	0	2	3	0	17	1
Oregon	0	0	0	93	4	0	34	2
Washington	0	0	0	0	2	0	27	2
Pacific Noncontiguous	**0**	**0**	**0**	**92**	**11**	**0**	**0**	**3**
Alaska	0	0	0	0	77	0	0	32
Hawaii	0	0	0	92	9	0	0	2
U.S. Total	**0**	**6**	**0**	**2**	**1**	**0**	**2**	**0**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**59**	**0**	**29**	**0**	**0**	**369**
Connecticut	0	178	0	50	0	0	0
Maine	0	350	0	196	0	0	0
Massachusetts	0	82	0	32	0	0	369
New Hampshire	0	140	0	248	0	0	0
Rhode Island	0	138	0	155	0	0	0
Vermont	0	630	0	0	0	0	0
Middle Atlantic	**202**	**36**	**0**	**24**	**0**	**0**	**415**
New Jersey	0	262	0	73	0	0	0
New York	0	40	0	24	0	0	415
Pennsylvania	202	61	0	85	0	0	0
East North Central	**23**	**57**	**0**	**44**	**0**	**0**	**483**
Illinois	34	5	0	29	0	0	483
Indiana	47	721	0	47	0	0	0
Michigan	0	103	0	77	0	0	0
Ohio	0	229	0	105	0	0	0
Wisconsin	429	329	0	192	0	0	0
West North Central	**28**	**101**	**0**	**134**	**0**	**0**	**0**
Iowa	47	318	0	262	0	0	0
Minnesota	862	110	0	202	0	0	0
Missouri	0	237	0	0	0	0	0
Nebraska	0	0	0	1,198	0	0	0
North Dakota	0	283	0	0	0	0	0
South Dakota	0	590	0	0	0	0	0
South Atlantic	**36**	**111**	**0**	**45**	**0**	**0**	**168**
District of Columbia	0	0	0	120	0	0	0
Florida	0	0	0	211	0	0	0
Georgia	0	56	0	0	0	0	0
Maryland	0	830	0	51	0	0	0
North Carolina	0	254	0	0	0	0	160
South Carolina	0	880	0	598	0	0	510
Virginia	338	250	0	436	0	0	0
East South Central	**0**	**467**	**0**	**84**	**0**	**0**	**0**
Mississippi	0	0	0	234	0	0	0
Tennessee	0	467	0	90	0	0	0
West South Central	**0**	**784**	**0**	**32**	**0**	**0**	**0**
Arkansas	0	0	0	606	0	0	0
Louisiana	0	0	0	77	0	0	0
Oklahoma	0	22,388	0	0	0	0	0
Texas	0	585	0	34	0	0	0
Mountain	**0**	**555**	**0**	**24**	**0**	**0**	**660**
Arizona	0	555	0	41	0	0	0
Colorado	0	0	0	0	0	0	660
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	59	0	0	0
New Mexico	0	0	0	46	0	0	0
Utah	0	0	0	52	0	0	0
Pacific Contiguous	**0**	**207**	**0**	**20**	**0**	**0**	**477**
California	0	189	0	12	0	0	477
Oregon	0	4,999	0	268	0	0	0
Washington	0	413	0	607	0	0	0
Pacific Noncontiguous	**23**	**48**	**0**	**568**	**0**	**0**	**0**
Alaska	23	167	0	568	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**15**	**30**	**0**	**14**	**0**	**0**	**143**

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, January 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**	**233**	**28**	**0**	**43**	**22**
Connecticut	0	0	0	0	0	0	0	50
Maine	0	0	0	0	29	0	43	34
Massachusetts	0	0	0	233	90	0	0	29
New Hampshire	0	0	0	0	44	0	0	78
Rhode Island	0	0	0	0	180	0	0	114
Vermont	0	0	0	0	254	0	0	239
Middle Atlantic	**0**	**0**	**0**	**44**	**9**	**0**	**12**	**12**
New Jersey	0	0	0	45	15	0	0	23
New York	0	0	0	347	17	0	28	17
Pennsylvania	0	0	0	245	11	0	0	28
East North Central	**0**	**0**	**0**	**295**	**13**	**0**	**18**	**33**
Illinois	0	0	0	0	273	0	0	26
Indiana	0	0	0	0	64	0	96	36
Michigan	0	0	0	0	10	0	17	52
Ohio	0	0	0	295	219	0	0	99
Wisconsin	0	0	0	0	34	0	0	151
West North Central	**0**	**0**	**0**	**381**	**22**	**0**	**69**	**62**
Iowa	0	0	0	0	51	0	0	108
Minnesota	0	0	0	0	63	0	69	134
Missouri	0	0	0	381	7	0	0	3
Nebraska	0	0	0	0	58	0	0	96
North Dakota	0	0	0	0	0	0	0	283
South Dakota	0	0	0	0	0	0	0	590
South Atlantic	**0**	**0**	**0**	**48**	**13**	**0**	**18**	**19**
Delaware	0	0	0	388	211	0	0	211
District of Columbia	0	0	0	0	0	0	0	120
Florida	0	0	0	394	41	0	0	99
Georgia	0	0	0	303	94	0	0	72
Maryland	0	0	0	264	62	0	378	48
North Carolina	0	0	0	50	30	0	0	17
South Carolina	0	0	0	0	0	0	0	395
Virginia	0	0	0	0	11	0	17	16
East South Central	**0**	**0**	**0**	**307**	**307**	**0**	**0**	**83**
Mississippi	0	0	0	0	0	0	0	234
Tennessee	0	0	0	307	307	0	0	89
West South Central	**0**	**0**	**0**	**341**	**51**	**0**	**0**	**30**
Arkansas	0	0	0	0	120	0	0	269
Louisiana	0	0	0	0	0	0	0	77
Oklahoma	0	0	0	0	0	0	0	22,388
Texas	0	0	0	341	53	0	0	31
Mountain	**0**	**0**	**0**	**51**	**50**	**0**	**0**	**23**
Arizona	0	0	0	108	108	0	0	38
Colorado	0	0	0	143	143	0	0	251
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	63	63	0	0	43
New Mexico	0	0	0	0	279	0	0	45
Utah	0	0	0	0	0	0	0	52
Pacific Contiguous	**0**	**0**	**0**	**48**	**8**	**0**	**0**	**13**
California	0	0	0	48	8	0	0	8
Oregon	0	0	0	0	57	0	0	227
Washington	0	0	0	0	56	0	0	316
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**9**
Alaska	0	0	0	0	34	0	0	30
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**24**	**5**	**0**	**8**	**9**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**59**	**0**	**29**	**0**	**0**	**369**
Connecticut	0	178	0	50	0	0	0
Maine	0	350	0	196	0	0	0
Massachusetts	0	82	0	32	0	0	369
New Hampshire	0	140	0	248	0	0	0
Rhode Island	0	138	0	155	0	0	0
Vermont	0	630	0	0	0	0	0
Middle Atlantic	**202**	**36**	**0**	**24**	**0**	**0**	**415**
New Jersey	0	262	0	73	0	0	0
New York	0	40	0	24	0	0	415
Pennsylvania	202	61	0	85	0	0	0
East North Central	**23**	**57**	**0**	**44**	**0**	**0**	**483**
Illinois	34	5	0	29	0	0	483
Indiana	47	721	0	47	0	0	0
Michigan	0	103	0	77	0	0	0
Ohio	0	229	0	105	0	0	0
Wisconsin	429	329	0	192	0	0	0
West North Central	**28**	**101**	**0**	**134**	**0**	**0**	**0**
Iowa	47	318	0	262	0	0	0
Minnesota	862	110	0	202	0	0	0
Missouri	0	237	0	0	0	0	0
Nebraska	0	0	0	1,198	0	0	0
North Dakota	0	283	0	0	0	0	0
South Dakota	0	590	0	0	0	0	0
South Atlantic	**36**	**111**	**0**	**45**	**0**	**0**	**168**
District of Columbia	0	0	0	120	0	0	0
Florida	0	0	0	211	0	0	0
Georgia	0	56	0	0	0	0	0
Maryland	0	830	0	51	0	0	0
North Carolina	0	254	0	0	0	0	160
South Carolina	0	880	0	598	0	0	510
Virginia	338	250	0	436	0	0	0
East South Central	**0**	**467**	**0**	**84**	**0**	**0**	**0**
Mississippi	0	0	0	234	0	0	0
Tennessee	0	467	0	90	0	0	0
West South Central	**0**	**784**	**0**	**32**	**0**	**0**	**0**
Arkansas	0	0	0	606	0	0	0
Louisiana	0	0	0	77	0	0	0
Oklahoma	0	22,388	0	0	0	0	0
Texas	0	585	0	34	0	0	0
Mountain	**0**	**555**	**0**	**24**	**0**	**0**	**660**
Arizona	0	555	0	41	0	0	0
Colorado	0	0	0	0	0	0	660
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	59	0	0	0
New Mexico	0	0	0	46	0	0	0
Utah	0	0	0	52	0	0	0
Pacific Contiguous	**0**	**207**	**0**	**20**	**0**	**0**	**477**
California	0	189	0	12	0	0	477
Oregon	0	4,999	0	268	0	0	0
Washington	0	413	0	607	0	0	0
Pacific Noncontiguous	**23**	**48**	**0**	**568**	**0**	**0**	**0**
Alaska	23	167	0	568	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**15**	**30**	**0**	**14**	**0**	**0**	**143**

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 January 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**	**233**	**28**	**0**	**43**	**22**
Connecticut	0	0	0	0	0	0	0	50
Maine	0	0	0	0	29	0	43	34
Massachusetts	0	0	0	233	90	0	0	29
New Hampshire	0	0	0	0	44	0	0	78
Rhode Island	0	0	0	0	180	0	0	114
Vermont	0	0	0	0	254	0	0	239
Middle Atlantic	**0**	**0**	**0**	**44**	**9**	**0**	**12**	**12**
New Jersey	0	0	0	45	15	0	0	23
New York	0	0	0	347	17	0	28	17
Pennsylvania	0	0	0	245	11	0	0	28
East North Central	**0**	**0**	**0**	**295**	**13**	**0**	**18**	**33**
Illinois	0	0	0	0	273	0	0	26
Indiana	0	0	0	0	64	0	96	36
Michigan	0	0	0	0	10	0	17	52
Ohio	0	0	0	295	219	0	0	99
Wisconsin	0	0	0	0	34	0	0	151
West North Central	**0**	**0**	**0**	**381**	**22**	**0**	**69**	**62**
Iowa	0	0	0	0	51	0	0	108
Minnesota	0	0	0	0	63	0	69	134
Missouri	0	0	0	381	7	0	0	3
Nebraska	0	0	0	0	58	0	0	96
North Dakota	0	0	0	0	0	0	0	283
South Dakota	0	0	0	0	0	0	0	590
South Atlantic	**0**	**0**	**0**	**48**	**13**	**0**	**18**	**19**
Delaware	0	0	0	388	211	0	0	211
District of Columbia	0	0	0	0	0	0	0	120
Florida	0	0	0	394	41	0	0	99
Georgia	0	0	0	303	94	0	0	72
Maryland	0	0	0	264	62	0	378	48
North Carolina	0	0	0	50	30	0	0	17
South Carolina	0	0	0	0	0	0	0	395
Virginia	0	0	0	0	11	0	17	16
East South Central	**0**	**0**	**0**	**307**	**307**	**0**	**0**	**83**
Mississippi	0	0	0	0	0	0	0	234
Tennessee	0	0	0	307	307	0	0	89
West South Central	**0**	**0**	**0**	**341**	**51**	**0**	**0**	**30**
Arkansas	0	0	0	0	120	0	0	269
Louisiana	0	0	0	0	0	0	0	77
Oklahoma	0	0	0	0	0	0	0	22,388
Texas	0	0	0	341	53	0	0	31
Mountain	**0**	**0**	**0**	**51**	**50**	**0**	**0**	**23**
Arizona	0	0	0	108	108	0	0	38
Colorado	0	0	0	143	143	0	0	251
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	63	63	0	0	43
New Mexico	0	0	0	0	279	0	0	45
Utah	0	0	0	0	0	0	0	52
Pacific Contiguous	**0**	**0**	**0**	**48**	**8**	**0**	**0**	**13**
California	0	0	0	48	8	0	0	8
Oregon	0	0	0	0	57	0	0	227
Washington	0	0	0	0	56	0	0	316
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**9**
Alaska	0	0	0	0	34	0	0	30
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**24**	**5**	**0**	**8**	**9**

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**58**	**82**	**0**	**29**	**0**	**0**	**34**
Connecticut	0	239	0	47	0	0	0
Maine	0	61	0	39	0	0	33
Massachusetts	97	707	0	90	0	0	352
New Hampshire	0	353	0	180	0	0	0
Middle Atlantic	**11**	**5**	**117**	**22**	**24**	**0**	**121**
New Jersey	0	512	214	50	53	0	0
New York	0	2	0	51	0	0	121
Pennsylvania	19	75	132	27	21	0	0
East North Central	**5**	**22**	**85**	**35**	**12**	**0**	**116**
Illinois	6	2,201	0	48	38	0	0
Indiana	122	7	0	29	12	0	0
Michigan	29	63	129	95	0	0	292
Ohio	10	111	379	109	47	0	0
Wisconsin	10	235	0	99	0	0	126
West North Central	**8**	**196**	**182**	**114**	**96**	**0**	**211**
Iowa	8	343	182	281	0	0	0
Kansas	0	0	0	144	0	0	0
Minnesota	19	203	0	168	0	0	211
Missouri	94	0	0	547	0	0	0
Nebraska	25	0	0	0	0	0	0
North Dakota	54	819	0	424	96	0	0
South Atlantic	**24**	**29**	**0**	**10**	**0**	**0**	**16**
Delaware	0	0	0	0	0	0	0
Florida	84	65	0	18	0	0	0
Georgia	59	32	0	25	0	0	224
Maryland	0	91	0	93	0	0	0
North Carolina	81	181	0	69	0	0	418
South Carolina	0	0	0	38	0	0	0
Virginia	42	189	0	26	0	0	263
West Virginia	0	0	0	0	0	0	11
East South Central	**12**	**71**	**0**	**15**	**81**	**0**	**0**
Alabama	73	78	0	19	105	0	0
Kentucky	0	0	0	55	0	0	0
Mississippi	0	0	0	37	0	0	0
Tennessee	0	220	0	19	0	0	0
West South Central	**60**	**120**	**79**	**2**	**5**	**0**	**0**
Arkansas	0	0	0	20	0	0	0
Louisiana	0	0	103	2	4	0	0
Oklahoma	74	1,100	0	83	0	0	0
Texas	0	290	79	3	11	0	0
Mountain	**22**	**157**	**0**	**25**	**11**	**0**	**0**
Colorado	975	590	0	112	0	0	0
Idaho	59	0	0	92	0	0	0
Montana	194	0	0	0	0	0	0
Nevada	0	0	0	33	0	0	0
New Mexico	0	272	0	105	0	0	0
Utah	0	2,084	0	23	0	0	0
Wyoming	24	113	0	47	11	0	0
Pacific Contiguous	**0**	**121**	**0**	**4**	**6**	**0**	**0**
California	0	361	0	4	6	0	0
Oregon	0	0	0	113	0	0	0
Washington	0	113	0	0	0	0	0
Pacific Noncontiguous	**232**	**76**	**0**	**277**	**83**	**0**	**222**
Alaska	0	14	0	277	0	0	0
Hawaii	232	111	0	0	83	0	222
U.S. Total	**6**	**26**	**47**	**2**	**5**	**0**	**20**

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

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

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

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**0**	**3**	**0**	**32**	**12**
Connecticut	0	0	0	0	0	0	0	47
Maine	0	0	0	0	2	0	32	11
Massachusetts	0	0	0	0	275	0	0	74
New Hampshire	0	0	0	0	0	0	0	180
Middle Atlantic	**0**	**0**	**0**	**167**	**8**	**0**	**0**	**12**
New Jersey	0	0	0	461	461	0	0	41
New York	0	0	0	0	4	0	0	16
Pennsylvania	0	0	0	178	11	0	0	14
East North Central	**0**	**0**	**0**	**311**	**7**	**0**	**9**	**8**
Illinois	0	0	0	0	0	0	25	10
Indiana	0	0	0	0	31	0	0	9
Michigan	0	0	0	0	13	0	0	37
Ohio	0	0	0	311	14	0	0	21
Wisconsin	0	0	0	0	12	0	54	19
West North Central	**0**	**0**	**0**	**0**	**12**	**0**	**53**	**12**
Iowa	0	0	0	0	28	0	0	16
Kansas	0	0	0	0	74	0	236	122
Minnesota	0	0	0	0	13	0	54	19
Missouri	0	0	0	0	105	0	0	101
Nebraska	0	0	0	0	0	0	0	24
North Dakota	0	0	0	0	55	0	0	85
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**5**	**3**
Delaware	0	0	0	0	67	0	0	1
Florida	0	0	0	0	7	0	6	7
Georgia	0	0	0	0	3	0	0	5
Maryland	0	0	0	0	0	0	0	27
North Carolina	0	0	0	0	9	0	0	18
South Carolina	0	0	0	0	1	0	0	1
Virginia	0	0	0	0	4	0	0	9
West Virginia	0	0	0	0	0	0	0	8
East South Central	**0**	**0**	**0**	**0**	**4**	**0**	**32**	**4**
Alabama	0	0	0	0	6	0	0	7
Kentucky	0	0	0	0	3	0	0	22
Mississippi	0	0	0	0	4	0	184	9
Tennessee	0	0	0	0	11	0	0	5
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**9**	**2**
Arkansas	0	0	0	0	3	0	0	5
Louisiana	0	0	0	0	6	0	10	2
Oklahoma	0	0	0	0	23	0	94	35
Texas	0	0	0	0	10	0	12	3
Mountain	**0**	**0**	**0**	**328**	**5**	**0**	**14**	**13**
Colorado	0	0	0	0	285	0	66	63
Idaho	0	0	0	0	2	0	0	19
Montana	0	0	0	0	118	0	0	101
Nevada	0	0	0	328	328	0	0	32
New Mexico	0	0	0	0	0	0	0	104
Utah	0	0	0	0	0	0	0	17
Wyoming	0	0	0	0	0	0	0	21
Pacific Contiguous	**0**	**0**	**0**	**171**	**8**	**0**	**11**	**3**
California	0	0	0	171	17	0	13	3
Oregon	0	0	0	0	15	0	0	34
Washington	0	0	0	0	8	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**22**	**0**	**0**	**59**
Alaska	0	0	0	0	75	0	0	166
Hawaii	0	0	0	0	23	0	0	49
U.S. Total	**0**	**0**	**0**	**106**	**2**	**0**	**5**	**2**

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

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

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

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**58**	**82**	**0**	**29**	**0**	**0**	**34**
Connecticut	0	239	0	47	0	0	0
Maine	0	61	0	39	0	0	33
Massachusetts	97	707	0	90	0	0	352
New Hampshire	0	353	0	180	0	0	0
Middle Atlantic	**11**	**5**	**117**	**22**	**24**	**0**	**121**
New Jersey	0	512	214	50	53	0	0
New York	0	2	0	51	0	0	121
Pennsylvania	19	75	132	27	21	0	0
East North Central	**5**	**22**	**85**	**35**	**12**	**0**	**116**
Illinois	6	2,201	0	48	38	0	0
Indiana	122	7	0	29	12	0	0
Michigan	29	63	129	95	0	0	292
Ohio	10	111	379	109	47	0	0
Wisconsin	10	235	0	99	0	0	126
West North Central	**8**	**196**	**182**	**114**	**96**	**0**	**211**
Iowa	8	343	182	281	0	0	0
Kansas	0	0	0	144	0	0	0
Minnesota	19	203	0	168	0	0	211
Missouri	94	0	0	547	0	0	0
Nebraska	25	0	0	0	0	0	0
North Dakota	54	819	0	424	96	0	0
South Atlantic	**24**	**29**	**0**	**10**	**0**	**0**	**16**
Delaware	0	0	0	0	0	0	0
Florida	84	65	0	18	0	0	0
Georgia	59	32	0	25	0	0	224
Maryland	0	91	0	93	0	0	0
North Carolina	81	181	0	69	0	0	418
South Carolina	0	0	0	38	0	0	0
Virginia	42	189	0	26	0	0	263
West Virginia	0	0	0	0	0	0	11
East South Central	**12**	**71**	**0**	**15**	**81**	**0**	**0**
Alabama	73	78	0	19	105	0	0
Kentucky	0	0	0	55	0	0	0
Mississippi	0	0	0	37	0	0	0
Tennessee	0	220	0	19	0	0	0
West South Central	**60**	**120**	**79**	**2**	**5**	**0**	**0**
Arkansas	0	0	0	20	0	0	0
Louisiana	0	0	103	2	4	0	0
Oklahoma	74	1,100	0	83	0	0	0
Texas	0	290	79	3	11	0	0
Mountain	**22**	**157**	**0**	**25**	**11**	**0**	**0**
Colorado	975	590	0	112	0	0	0
Idaho	59	0	0	92	0	0	0
Montana	194	0	0	0	0	0	0
Nevada	0	0	0	33	0	0	0
New Mexico	0	272	0	105	0	0	0
Utah	0	2,084	0	23	0	0	0
Wyoming	24	113	0	47	11	0	0
Pacific Contiguous	**0**	**121**	**0**	**4**	**6**	**0**	**0**
California	0	361	0	4	6	0	0
Oregon	0	0	0	113	0	0	0
Washington	0	113	0	0	0	0	0
Pacific Noncontiguous	**232**	**76**	**0**	**277**	**83**	**0**	**222**
Alaska	0	14	0	277	0	0	0
Hawaii	232	111	0	0	83	0	222
U.S. Total	**6**	**26**	**47**	**2**	**5**	**0**	**20**

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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 January 2016 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**0**	**3**	**0**	**32**	**12**
Connecticut	0	0	0	0	0	0	0	47
Maine	0	0	0	0	2	0	32	11
Massachusetts	0	0	0	0	275	0	0	74
New Hampshire	0	0	0	0	0	0	0	180
Middle Atlantic	**0**	**0**	**0**	**167**	**8**	**0**	**0**	**12**
New Jersey	0	0	0	461	461	0	0	41
New York	0	0	0	0	4	0	0	16
Pennsylvania	0	0	0	178	11	0	0	14
East North Central	**0**	**0**	**0**	**311**	**7**	**0**	**9**	**8**
Illinois	0	0	0	0	0	0	25	10
Indiana	0	0	0	0	31	0	0	9
Michigan	0	0	0	0	13	0	0	37
Ohio	0	0	0	311	14	0	0	21
Wisconsin	0	0	0	0	12	0	54	19
West North Central	**0**	**0**	**0**	**0**	**12**	**0**	**53**	**12**
Iowa	0	0	0	0	28	0	0	16
Kansas	0	0	0	0	74	0	236	122
Minnesota	0	0	0	0	13	0	54	19
Missouri	0	0	0	0	105	0	0	101
Nebraska	0	0	0	0	0	0	0	24
North Dakota	0	0	0	0	55	0	0	85
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**5**	**3**
Delaware	0	0	0	0	67	0	0	1
Florida	0	0	0	0	7	0	6	7
Georgia	0	0	0	0	3	0	0	5
Maryland	0	0	0	0	0	0	0	27
North Carolina	0	0	0	0	9	0	0	18
South Carolina	0	0	0	0	1	0	0	1
Virginia	0	0	0	0	4	0	0	9
West Virginia	0	0	0	0	0	0	0	8
East South Central	**0**	**0**	**0**	**0**	**4**	**0**	**32**	**4**
Alabama	0	0	0	0	6	0	0	7
Kentucky	0	0	0	0	3	0	0	22
Mississippi	0	0	0	0	4	0	184	9
Tennessee	0	0	0	0	11	0	0	5
West South Central	**0**	**0**	**0**	**0**	**4**	**0**	**9**	**2**
Arkansas	0	0	0	0	3	0	0	5
Louisiana	0	0	0	0	6	0	10	2
Oklahoma	0	0	0	0	23	0	94	35
Texas	0	0	0	0	10	0	12	3
Mountain	**0**	**0**	**0**	**328**	**5**	**0**	**14**	**13**
Colorado	0	0	0	0	285	0	66	63
Idaho	0	0	0	0	2	0	0	19
Montana	0	0	0	0	118	0	0	101
Nevada	0	0	0	328	328	0	0	32
New Mexico	0	0	0	0	0	0	0	104
Utah	0	0	0	0	0	0	0	17
Wyoming	0	0	0	0	0	0	0	21
Pacific Contiguous	**0**	**0**	**0**	**171**	**8**	**0**	**11**	**3**
California	0	0	0	171	17	0	13	3
Oregon	0	0	0	0	15	0	0	34
Washington	0	0	0	0	8	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**22**	**0**	**0**	**59**
Alaska	0	0	0	0	75	0	0	166
Hawaii	0	0	0	0	23	0	0	49
U.S. Total	**0**	**0**	**0**	**106**	**2**	**0**	**5**	**2**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 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

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

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	06/02/2015 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
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

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	07/28/2015 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
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.'

Table C.1 Average Heat Content of Fossil-Fuel Receipts, January 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	21.88	5.89	--	1.03
Connecticut	18.41	5.80	--	1.03
Maine	25.20	6.23	--	1.03
Massachusetts	23.29	5.77	--	1.03
New Hampshire	--	5.78	--	1.03
Rhode Island	--	5.79	--	1.03
Vermont	--	--	--	--
Middle Atlantic	22.87	5.87	--	1.04
New Jersey	26.25	5.79	--	1.04
New York	25.86	5.95	--	1.03
Pennsylvania	22.69	5.80	--	1.04
East North Central	20.31	5.78	28.15	1.04
Illinois	17.65	5.80	--	1.01
Indiana	22.31	5.75	29.50	1.03
Michigan	19.05	5.85	--	1.03
Ohio	24.44	5.76	26.62	1.06
Wisconsin	17.44	5.80	27.81	1.04
West North Central	16.58	5.84	--	1.05
Iowa	17.81	5.77	--	1.06
Kansas	17.17	5.82	--	1.03
Minnesota	17.73	5.79	--	1.06
Missouri	17.53	5.76	--	1.03
Nebraska	16.90	--	--	1.06
North Dakota	13.25	5.97	--	1.00
South Dakota	16.58	6.00	--	1.06
South Atlantic	23.53	5.82	27.22	1.03
Delaware	--	5.53	--	1.05
District of Columbia	--	--	--	--
Florida	23.67	5.76	27.28	1.02
Georgia	19.24	5.84	26.70	1.03
Maryland	24.82	6.05	--	1.06
North Carolina	24.96	5.79	--	1.03
South Carolina	24.81	5.97	--	1.03
Virginia	23.21	5.79	--	1.06
West Virginia	24.43	5.77	--	1.07
East South Central	21.00	5.79	28.02	1.03
Alabama	19.74	5.77	--	1.03
Kentucky	22.11	5.83	28.02	1.02
Mississippi	12.71	5.84	--	1.03
Tennessee	22.13	5.76	--	1.01
West South Central	15.53	5.88	29.17	1.03
Arkansas	17.53	5.83	--	1.03
Louisiana	15.68	5.80	29.17	1.03
Oklahoma	17.15	5.77	--	1.05
Texas	14.95	5.92	--	1.03
Mountain	18.74	5.74	--	1.05
Arizona	19.33	5.62	--	1.04
Colorado	18.77	5.72	--	1.07
Idaho	--	--	--	1.02
Montana	17.05	5.92	--	--
Nevada	21.13	5.82	--	1.04
New Mexico	18.25	5.66	--	1.05
Utah	22.33	5.79	--	1.04
Wyoming	17.45	5.81	--	1.05
Pacific Contiguous	17.57	--	--	1.04
California	23.02	--	--	1.04
Oregon	17.28	--	--	1.04
Washington	17.11	--	--	1.08
Pacific Noncontiguous	18.50	6.13	--	1.01
Alaska	14.39	5.50	--	1.01
Hawaii	20.34	6.13	--	--
U.S. Total	19.12	5.99	28.26	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

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

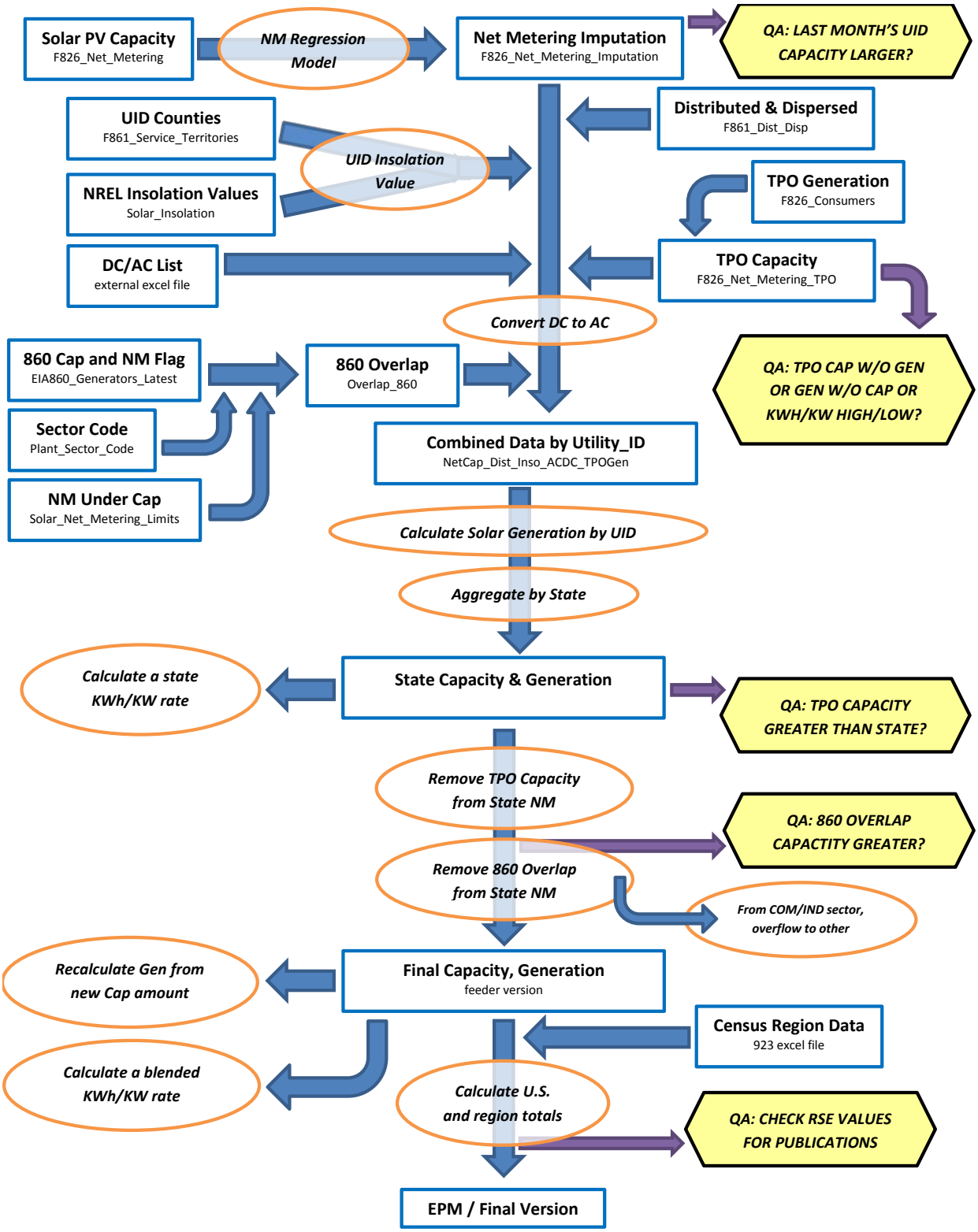
TMY3 (1991-2005) Weather Stations by MSA

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.

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.