2019 STATISTICAL REPORT

A SUPPLEMENT OF PUBLIC POWER MAGAZINE

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TUESDAY, JULY 2, 2019





NPPD Energy Ed @NPPD_STEM, Nebraska Learning about natural resources and hydropower at the Platte River Safari camp at Rowe Sanctuary!! #communityPowered @NPPDnews

DISASTER RESPONSE

Kentucky public power utilities help co-ops with storm recovery

Kentucky public power utilities Paducah Power Systems, the Princeton Electric Plant Board and Madisonville Municipal Utility Department recently sent crews to help two cooperatives in the state with power restoration efforts after severe storms hit the state.



POWER SOURCES

TVA IRP calls for additions of storage, solar

Among the recommendations included in a final Tennessee Valley Authority integrated resource plan is the addition of up to 2,400 megawatts of storage by 2028, between 1,500 and 8,000 MW of solar by 2028 and up to 500 MW of demand response by 2038, depending on availability and cost of the resource.



Data tells one part of public power's story. We focus on sharing the rest.

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For infographics, fact sheets, and other materials with statistics you can share for public education,

go to PublicPower.org and look under **Members** and

Communication Templates.

WHERE TO FIND INDUSTRY DATA

he Public Power Statistical Report is a central source for American Public Power Association members to find statistics from the Association and state and federal agencies that detail key

aspects of public power and the electric utility industry. This report focuses on the key graphs, tables, and data visualizations that members regularly draw from to inform their benchmarking or marketing efforts. Additional detailed charts, reports, and data, such as regional capacity or retail choice rates, are available on our website and various other channels.

While this report contains a variety of top-level data about our industry, there are many additional sources to turn to for a deeper dive. Access to industry information is valuable for a variety of purposes, and we want to make sure you are aware of all the resources available to you. Below is a rundown of where you can access some of the most comprehensive sources of energy-related statistics.

Curated information for public power

- The "Stats and Facts" page on the Association website highlights key industry information and comparisons and links to statistical reports and documents, including this report and the *Average Revenue per Kilowatt-Hour* report on every electric utility in the country. www.PublicPower.org/Public-power/stats-and-facts
- Our product store also links to other statistical reports available to members for free or at a low cost, including our report on salaries and hourly pay in publicly owned utilities, the report on financial and operating ratios of public power utilities, and a link to subscribe to the eReliability Tracker service, which allows public power utilities to benchmark reliability on a regional or national scale and create reports based on the data collected. https://ebiz.publicpower.org/ APPAEbiz/productcatalog/productdefault.aspx

Go to the source

- A primary source for much of the data in these reports is the Energy Information Administration. EIA is charged with gathering data from all segments of the energy sector, and does so through several surveys, which are all available for download on the EIA website. Form EIA-861 is a mandatory survey for all electric utilities on sales, revenue, generation, reliability, net metered customers, energy efficiency and demand response programs, and other basic operational data. EIA also collects data on generating capacity (Form EIA-860), generation (Form EIA-923), balancing authorities (Form EIA-930), and other more targeted surveys. EIA also produces annual and monthly reports based on the information it collects, including long- and short-term energy outlooks, which summarize EIA's projections. EIA's website also has an interactive tool to dig deeper into energy statistics. www.eia.gov
- The Federal Energy Regulatory Commission collects data related to wholesale power markets. FERC Form 1 also collects financial data on all investor-owned utilities, including operations and maintenance costs, salaries of major employees, and other financial information. Larger wholesale electricity sellers must report cost-based sales, market-based rates, and other transactional information in the Electric Quarterly Report. www.ferc.gov/docs-filing/forms.asp
- Though not specifically geared to the energy industry, the Census Bureau is a great source of information which can be incorporated into your analysis. As an example of how we use census data, according to the Census Bureau, the number of people per household in the United States is 2.58. Using EIA data, we also know that public power utilities serve just under 19 million residential customer meters in the United States. Multiplying those two numbers we get 49 million, which is the estimated number of people served by a public power utility. Utilities can find information on their service area by searching by city or zip code.

www.census.gov

Additional expert analysis

There are other discrete sources of information for industry data.

- The Smart Electric Power Alliance has information on utility-scale solar installations, including community solar. https://sepapower.org/
- The North Carolina Clean Energy Center maintains a database which links to state policies and incentives related to energy efficiency, net metering, and renewable energy. www.dsireusa.org
- Organizations such as the Electric Power Research Institute, the Rocky Mountain Institute, and Lawrence Berkeley National Lab produce numerous reports each year, many of which incorporate deep dives into industry data.
 www.EPRl.com

www.rmi.org www.lbl.gov The National Renewable Energy Laboratory's Utility Rate Database is an open-source repository for the rate structures of each electric utility in the country. This database can be used to interface with NREL's System Advisor Model, a tool designed for people involved in the renewable energy industry, including project managers and engineers. https://openei.org/wiki/Utility_Rate_Database https://openei. org/wiki/System_Advisor_Model_(SAM)

There are many resources available to find energy and electric industry data, and it can be confusing to navigate precisely where to go and for what information. Between this new statistical report, the Association website, and the additional sources outlined above, you can find all that was in the previous printed report and much more. If you ever have any questions about the data, where to find it, and how to use it, don't hesitate to reach out to us at Statistics@PublicPower.org.



U.S. Electric Generating Capacity by Fuel Type, 2017

Nameplate Capacity



(in megawatts)			Hydro 8.5%
	MW	Percent of Total	- yes a second
Coal	278,224	23.4%	Wind 7.9%
Gas	527,956	44.5%	
Nuclear	104,792	8.8%	0il 3.2%
Oil	38,122	3.2%	
Wind	94,020	7.9%	Nuclear 8.8%
Hydro	101,238	8.5%	
Other	42,592	3.6%	



Nameplate capactiy in megawatts. Data reflect joint ownership.

Publicly Owned

,	MW	Percentage of Total
Coal	32,769	26.6%
Gas	51,857	42.0%
Nuclear	7,975	6.5%
Oil	5,965	4.8%
Wind	817	0.7%
Hydro	22,166	18.0%
Other	1,847	1.5%



Other 3.6%

Coal 23.4%

Gas 44.5%

Source: Energy Information Administration Form EIA-860 as of 10/31/18.

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U.S. Electric Generating Capacity by Utility Type and Fuel Type, 2017

Nameplate capactiy in megawatts. Data reflect joint ownership.



Cooperative

		Percentage
	MW	of Total
Coal	25,166	39.2%
Gas	32,886	51.3%
Nuclear	2,864	4.5%
Oil	1,250	1.9%
Wind	433	0.7%
Hydro	1,042	1.6%
Other	485	0.8%



Investor-Owned

	MW	Percentage of Total
Coal	142 829	31.7%
Gas	194,636	43.2%
Nuclear	47,933	10.6%
Oil	18,010	4.0%
Wind	15,587	3.5%
Hydro	24,666	5.5%
Other	7,051	1.6%



		Percentage
	MW	of Total
Coal	10,831	14.7%
Gas	11,858	16.1%
Nuclear	8,475	11.5%
Oil	68	0.1%
Wind	24	0.0%
Hydro	42,250	57.4%
Other	45	0.1%



Non-Utility Generators

	MW	Percentage of Total
Coal	66,629	14.0%
Gas	236,719	49.8%
Nuclear	37,545	7.9%
Oil	12,829	2.7%
Wind	77,159	16.2%
Hydro	11,114	2.3%
Other	33,163	7.0%

Source: Energy Information Administration Form EIA-860 as of 10/31/18.

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U.S. Electric Generation by Fuel Type, 2017

National

(in thousands of megawatt-hours)

		Percent of
	Total MWh	Total
Coal	1,205,835	29.9%
Gas	1,308,884	32.4%
Nuclear	804,950	20.0%
Oil	21,390	0.5%
Wind	254,303	6.3%
Hydro	293,839	7.3%
Other	145,069	3.6%

Source: Energy Information Administration Form EIA-923





Public Power



Source: Ventyx Velocity Suite, November 2018

2017 Generation by Public Power Utilities

Source: Ventyx Velocity Suite, November 2018

Census Regions G	eneration, in MWHs:						
	Coal	Oil	Gas	Nuclear	Hydro	Other	Total
New England - Mid Atlantic	-	85,303	4,212,445	3,579,482	24,475,307	799,573	33,152,110
South Atlantic	25,096,111	59,239	34,270,898	20,977,970	869,756	2,752,060	84,026,034
East South Central - West South Central	32,413,955	35,222	16,301,435	12,085,627	2,213,141	54,158	63,103,538
East North Central - West North Central	39,846,222	103,892	4,978,590	6,912,737	1,350,222	1,112,375	54,304,038
Mountain	37,014,156	65,970	13,358,867	9,410,980	1,489,659	307,293	61,646,925
Pacific	-	150,523	20,323,329	8,128,259	56,173,734	3,147,239	87,923,084
Total	134,370,444	500,149	93,445,564	61,095,055	86,571,819	8,172,698	384,155,729

Census Region States		Census	
New England	CT, MA, ME, NH, RI, and VT	East Nor	
Mid-Atlantic	NJ, NY, and PA	West No	
South Atlantic	DC, DE, FL, GA, MD, NC, SC, VA, and WV	Mountai	
East South Central	AL, KY, MS, and TN	Pacific	
West South Central	AR, LA, OK, and TX		

East North Central
West North Central
Mountain
Pacific

Region

IL, IN, MI, OH, and WI IA, KS, MN, MO, ND, NE, and SD AZ, CO, ID, MT, NM, NV, UT, WY AK, CA, HI, OR, and WA

States

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2017 Generation by Public Power Utilities

South Atlantic Region



New England-Middle Atlantic Region



Pacific Region



Mountain Region



East North Central-West North Central Region



East South Central-West South Central Region



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Renewable Capacity by Owner Type

Nameplate capacity, in megawatts

	Cooperative	Federal	Investor-Owned	Public Power	Non-Utility Generators	Total
Geothermal	3.7		133.7	220.0	3,447.2	3,804.6
Sun (Photovoltaic, Thermal)	73.8	22.4	6,181.5	116.5	26,190.0	32,584.2
Wind	432.8	24.4	15,586.9	816.6	77,158.8	94,019.5
Biomass Fuels						
Agricultural Crop Byproducts					288.1	288.1
Black Liquor			37.3	106.4	5019.5	5,163.2
Landfill Gas	114.2		109.5	264.4	1724.1	2,212.2
Municipal Solid Waste	48.0		212.9	705.8	1831.1	2,797.8
Other Biomass Gases		1.9	1.8	197.6	173	374.3
Other Biomass Liquids			113.0	2	10.0	125.0
Other Biomass Solids					166.3	166.3
Wood Waste Liquids					44.0	44.0
Wood/Wood Waste Solids	49.9	20.8	903.9	319.1	4,118.3	5,412.0
Hydro	1,042.5	42,227.5	24,677.7		11,216.6	79,164.2
Total Renewable Fuels	1,764.9	42,297.0	47,958.2	2,748.4	131,387.0	226,155.4

Generation from Renewable Energy, by Fuel Type, 2017

In thousands of megawatt-hours and as a percent of all renewable generation

	000 MWh	Percent
Geothermal	15,927	2.3%
Sun	53,286	7.8%
Wind	254,303	37.4%
Biomass Fuels	62,762	9.2%
Hydro	293,839	43.2%

Total Renewable Generation

680,116



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Public power ahead of the game in reducing CO₂ emissions

Carbon dioxide emissions reduction, 2005 - 2017



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100 Largest Public Power Systems Ranked by Generation, 2017

Net generation in megawatt-hours

1	Salt River Project	AZ	30,164,492	51	Texas Municipal Power Agency	ТΧ	1,593,682
2	New York Power Authority	NY	29,935,699	52	Lincoln Electric System	NE	1,542,782
3	CPS Energy	ТХ	23,972,264	53	Southern Minnesota Municipal Power Agency	MN	1,502,582
4	Los Angeles Department of Water & Power	CA	23,668,564	54	WPPI Energy	WI	1,472,277
5	Santee Cooper (South Carolina Public Service Authority)	SC	17,998,283	55	IID Energy	CA	1,439,564
6	Nebraska Public Power District	NE	15,850,887	56	Western Minnesota Municipal Power Agency	MN	1,433,620
7	Lower Colorado River Authority	TX	13,999,635	57	Placer County Water Agency	CA	1,427,751
8	JEA	FL	12,753,132	58	Gainesville Regional Utilities	FL	1,406,138
9	MEAG Power	GA	12,655,863	59	Anchorage Municipal Light & Power	AK	1,286,344
10	Puerto Rico Electric Pwr Authority	PR	10,970,952	60	Jonesboro City Water & Light	AR	1,279,362
11	Omaha Public Power District	NE	10,760,109	61	Brownsville Public Utilities Board	ТΧ	1,274,576
12	Grant County, Public Utility District No. 2 of	WA	9,750,914	62	Clark Public Utilities	WA	1,259,618
13	Austin Energy	TX	9,408,274	63	Utah Associated Municipal Power Systems	UT	1,089,777
14	Southern California Public Power Authority	CA	9,398,633	64	M-S-R Public Power Agency	CA	1,076,529
15	Chelan County Public Utility District No. 1	WA	9,210,736	65	Kansas City Board of Public Utilities	KS	975,048
16	American Municipal Power	OH	8,726,530	66	Kings River Conservation District	CA	899,458
17	Energy Northwest	WA	8,444,572	67	Dalton Utilities	GA	866,279
18	Intermountain Power Agency	UT	8,413,932	68	Lafayette Public Power Authority	LA	825,089
19	Florida Municipal Power Agency	FL	7,637,176	69	Silicon Valley Power	CA	817,379
20	Sacramento Municipal Utility District	CA	7,274,860	70	Farmington, City of	NM	808,528
21	North Carolina Municipal Power Agency No. 1	NC	7,109,359	71	Muscatine Power & Water	IA	802,589
22	Orlando Utilities Commission	FL	6,882,424	72	Northern Municipal Power Agency	MN	790,402
23	Seattle City Light	WA	6,387,205	73	Minnesota Municipal Power Agency	MN	788,665
24	California Department of Water Resources	CA	4,767,365	74	Modesto Irrigation District	CA	763,740
25	Douglas County, Public Utility District No. 1 of	WA	4,542,200	75	Tri-Dam Project	CA	659,132
26	Grand River Dam Authority	OK	4,502,333	76	NMPP Energy: Municipal Energy Agency of Nebraska	NE	629,733
27	Colorado Springs Utilities	CO	4,247,394	77	Virgin Islands Water & Power Authority	VI	516,221
28	Indiana Municipal Power Agency	IN	3,364,328	78	Merced Irrigation District	CA	511,926
29	Tacoma Public Utilities	WA	3,175,608	79	Eugene Water & Electric Board	OR	510,030
30	Platte River Power Authority	CO	3,086,289	80	Louisiana Energy and Power Authority	LA	507,919
31	Missouri Joint Municipal Electric Utility Comm	MO	3,041,019	81	Snohomish County, Public Utility District No. 1 of	WA	471,307
32	Tallahassee Electric Utility, City of	FL	2,648,183	82	Holland Board of Public Works	MI	463,625
33	Northern California Power Agency	CA	2,595,067	83	Henderson City Utility Commission	KY	457,278
34	Illinois Municipal Electric Agency	IL	2,558,813	84	Fremont Department of Utilities	NE	454,789
35	Piedmont Municipal Power Agency	SC	2,465,478	85	Nevada Irrigation District	CA	451,127
36	Lakeland Electric	FL	2,449,392	86	Hastings, City of	NE	446,085
37	Oklahoma Municipal Power Authority	ОК	2,351,327	87	South Feather Water and Power Agency	CA	442,187
38	Turlock Irrigation District	CA	2,234,630	88	Logansport Municipal Utilities	IN	433,528
39	Springfield, City Utilities of	MO	2,123,746	89	Burbank Water and Power	CA	425,733
40	Springfield City Water, Light & Power	IL	2,076,501	90	Anaheim Public Utilities	CA	418,882
41	Yuba County Water Agency	CA	2,070,774	91	Central Nebraska Public Power & Irrigation District	NE	410,408
42	Long Island Power Authority	NY	2,015,781	92	Alaska Energy Authority	AK	384,052
43	Michigan Public Power Agency	MI	1,888,837	93	Redding, City of	CA	382,918
44	Metropolitan Water District of Southern California	CA	1,821,889	94	Utah Municipal Power Agency	UT	375,973
45	Lansing Board of Water & Light	MI	1,802,325	95	Pend Oreille County, Public Utility District No. 1 of	WA	362,194
46	San Francisco (Hetch Hetchy Water & Power), City of	CA	1,785,762	96	Wyoming Municipal Power Agency	WY	359,578
47	Owensboro Municipal Utilities	KY	1,757,212	97	Denton Municipal Electric	ТХ	339,802
48	Sikeston Board of Municipal Utilities	MO	1,743,049	98	Los Alamos County Utilities	NM	335,437
49	Massachusetts Municipal Wholesale Electric Co.	MA	1,718,117	99	Grand Island, City of	NE	318,860
50	Guam Power Authority	GU	1,697,186	100	Conway Corporation	AR	313,167

SALES AND REVENUE

100 Largest Public Power Utilities by Megawatt-hour Sales, 2017

Sales to ultimate customers and sales for resale.

1	New York Power Authority	NY	37,895,297	51	IID Energy	CA	3,540,973
2	Salt River Project	AZ	36,345,337	52	Modesto Irrigation District	CA	3,517,144
3	CPS Energy	ТХ	27,575,544	53	Silicon Valley Power	CA	3,499,470
4	Los Angeles Department of Water & Power	CA	23,091,979	54	Southern Minnesota Municipal Power Agency	MN	3,456,202
5	Santee Cooper (South Carolina Public Service Authority)	SC	22,779,099	55	Michigan Public Power Agency	MI	3,442,167
6	Nebraska Public Power District	NE	19,568,548	56	Kansas City Board of Public Utilities	KS	3,422,237
7	Long Island Power Authority	NY	17,225,147	57	Turlock Irrigation District	CA	3,397,008
8	Omaha Public Power District	NE	16,319,135	58	Utah Associated Municipal Power Systems	UT	3,299,189
9	Chelan County Public Utility District No. 1	WA	14,847,586	59	Anaheim Public Utilities	CA	3,253,716
10	Lower Colorado River Authority	ТХ	14,590,875	60	Alabama Municipal Electric Authority	AL	3,110,038
11	American Municipal Power	OH	14,134,523	61	Massachusetts Municipal Wholesale Electric Co.	MA	3,040,994
12	Austin Energy	ТХ	13.976.752	62	Lakeland Electric	FL	3.017.651
13	IFA	FL	13.698.716	63	Springfield City Water, Light & Power	IL	2.894.930
14	Puerto Rico Electric Power Authority	PR	13,558,282	64	Lafavette Utilities System	LA	2.878.858
15	MFAG Power	GA	13,361,831	65	Oklahoma Municipal Power Authority	OK	2,807,402
16	Memphis Light, Gas and Water Division	TN	13,308,180	66	Minnesota Municipal Power Agency	MN	2,742,350
17	Seattle City Light	WA	13 103 529	67	Lansing Board of Water & Light	MI	2,7 12,330
18	Southern California Public Power Authority	CA	12 628 318	68	Tallahassee Electric Litility. City of	FI	2,680,414
10	Sacramento Municipal Utility District	CA	12,020,010	69	Lubbock Power & Light	ТХ	2,000,414
20	Nashville Electric Service	TN	11 508 865	70	Vinton Public Power Authority		2,550,227
20	Grant County Public Hility District No. 2 of	\٨/Δ	2 Q12 725	70	Piedmont Municipal Power Agency	SC	2,575,025
21	Snohomish County, Public Utility District No. 2 of	νν/ (8 813 567	72	Renton PIID	٥.	2,323,033
22	Energy Northwest		0,013,307 0,013,307	72	NMDD Energy: Municipal Energy Agency of Nebraska		2,334,013
25 74	Intermountain Dower Agency		0,444,J7Z Q /12 027	77	Pivercide Public Htilities City of	CA	2,270,207
24 25	Grand Piver Dam Authority		0,413,332	74	Silecton Board of Municipal Utilities	MO	2,220,343
25 26		EI	0,243,330 7 805 033	75	Brian Toyas Htilitias	IVIU TV	2,129,721
20 27	Tacoma Dublic Utilitios	\A/A	7,033,333	70	Digan Texas Utilites		2,033,144
27 20	North Carolina Municipal Power Agency No. 1		7,307,330 7,72,466	70	RUSEVIIIE Electric	CA CA	2,072,255
20	Florida Municipal Dower Agency No. 1		7,472,400	/0 70			2,070,774
29	Florida Multicipal Power Agency		7,420,094	79	Galilesville Regional Juliues	FL	2,024,900
3U 21	California Department of Water Decourses		7,295,700	8U 01	Fayelleville Public Works Commission	INC.	1,907,324
31 22	California Department of Water Resources	CA	7,122,955 C F 00 211	18	Burbank Water and Power	CA IAV	1,911,048
32			0,500,311	82	Owensboro Municipal Utilities	KY CA	1,861,749
33	WPPI Energy	VVI	0,200,518	83	San Francisco (Hetch Hetchy Water & Power), City of	(A	1,850,471
34 25	EPB - Chattanooga Electric Power Board		5,523,239	84	Johnson City Power Board	IN	1,815,148
35		VVA	5,230,978	85		GA	1,709,314
36	Knoxville Utilities Board	IN	5,220,775	86	Murfreesboro Electric Department	IN	1,707,593
3/	Missouri Joint Municipal Electric Utility Comm	MO	5,062,032	8/	Greenville Utilities Commission	NC	1,/00,4//
38	Huntsville Utilities	AL	4,954,927	88	Muscatine Power & Water	IA	1,695,107
39	Colorado Springs Utilities	0	4,862,988	89	Jackson Energy Authority	IN	1,681,239
40	Cowlitz County, Public Utility District No. 1 of	WA	4,825,787	90	M-S-R Public Power Agency	CA	1,663,654
41	Sam Rayburn Municipal Power Agency	IX	4,5/5,413	91	Louisiana Energy and Power Authority	LA	1,635,095
42	Lincoln Electric System	NE	4,574,954	92	Guam Power Authority	GU	1,610,093
43	Douglas County, Public Utility District No. 1 of	WA	4,520,221	93	Kansas Municipal Energy Agency	KS	1,606,861
44	Eugene Water & Electric Board	OR	4,452,234	94	Connecticut Municipal Electric Energy Cooperative	CT	1,598,239
45	Platte River Power Authority	CO	4,063,024	95	Cleveland Public Power	OH	1,588,114
46	Northern California Power Agency	CA	4,055,261	96	Grays Harbor County, Public Utility District No. 1 of	WA	1,586,133
47	Illinois Municipal Electric Agency	IL	3,998,615	97	Lenoir City Utilities Board	TN	1,576,099
48	Garland, City of	ΤX	3,833,671	98	Texas Municipal Power Agency	TX	1,558,158
49	Springfield, City Utilities of	MO	3,806,442	99	New Braunfels Utilities	TX	1,543,101
50	Missouri River Energy Services	SD	3,546,741	100	Jonesboro City Water & Light	AR	1,520,557

INDUSTRY STATISTICS

100 Largest Public Power Utilities by Electric Customers Served, 2017

Ultimate customers served

1	Puerto Rico Electric Power Authority	PR	1,465,437	51	Virgin Islands Water & Power Authority	VI	60,599
2	Los Angeles Department of Water & Power	CA	1,426,865	52	Naperville Department of Public Utilities	IL	59,424
3	Long Island Power Authority	NY	1,127,645	53	Roseville Electric	CA	58,968
4	Salt River Project	AZ	1,044,846	54	Independence Power & Light	MO	57,176
5	CPS Energy	ТΧ	811,116	55	Bryan Texas Utilities	TX	55,497
6	Sacramento Municipal Utility District	CA	622,774	56	Silicon Valley Power	CA	54,826
7	Austin Energy	ТΧ	475,744	57	Sevier County Electric System	TN	54,128
8	JEA	FL	464,116	58	Rochester Public Utilities	MN	53,868
9	Seattle City Light	WA	454,496	59	Burbank Water and Power	CA	53,272
10	Memphis Light, Gas and Water Division	TN	414,315	60	Benton PUD	WA	53,111
11	Nashville Electric Service	TN	394,705	61	Ocala Utility Services, City of	FL	52,953
12	Omaha Public Power District	NE	374,817	62	Denton Municipal Electric	ΤX	52,812
13	Snohomish County, Public Utility District No. 1 of	WA	346,594	63	Guam Power Authority	GU	50,843
14	Orlando Utilities Commission	FL	237,158	64	Grant County, Public Utility District No. 2 of	WA	50,510
15	Colorado Springs Utilities	CO	227,402	65	Cowlitz County, Public Utility District No. 1 of	WA	50,365
16	Clark Public Utilities	WA	203,975	66	Chelan County Public Utility District No. 1	WA	49,940
17	Knoxville Utilities Board	TN	201,857	67	Columbia Water & Light	MO	49,882
18	Huntsville Utilities	AL	182,444	68	Florence Utilities	AL	49,358
19	Santee Cooper (South Carolina Public Service Authority)	SC	180.687	69	Brownsville Public Utilities Board	ТХ	48,758
20	Tacoma Public Utilities	WA	177.150	70	Riviera Utilities	AL	46.784
21	EPB - Chattanooga Electric Power Board	TN	169.614	71	Athens. City of	AL	45,917
22	IID Energy	CA	154.465	72	Redding. City of	CA	44.045
23	Lincoln Electric System	NE	138,482	73	Gravs Harbor County, Public Utility District No. 1 of	WA	42,456
24	Lakeland Electric	FL	129,112	74	High Point. City of	NC	42,244
25	Anaheim Public Utilities	CA	126.737	75	Danville Department of Utilities	VA	42.082
26	Modesto Irrigation District	CA	122.734	76	Farmington. City of	NM	41,900
27	Tallahassee Electric Utility. City of	FI	115,556	77	College Station, City of	ТХ	41.647
28	Springfield, City Utilities of	MO	114,942	78	Marietta Board of Lights & Water	GA	41,413
29	Riverside Public Utilities. City of	(A	109,260	79	Edmond. City of	OK	40.337
30	Lubbock Power & Light	TX	105,106	80	New Braunfels Utilities	ТХ	40.035
31	Turlock Irrigation District	CA	102,343	81	Longmont Power & Communications	(0	39,217
32	Gainesville Regional Utilities	FI	97,245	82	Central Lincoln People's Utility District	OR	38,980
33	Lansing Board of Water & Light	MI	97,185	83	North Little Rock City of	AR	38,579
34	Eugene Water & Electric Board	OR	93,807	84	Greeneville Light & Power System	TN	38,231
35	Nebraska Public Power District	NF	90 271	85	Taunton Municipal Lighting Plant	MA	38.046
36	Glendale Water & Power	CA	87,982	86	Albany Water, Gas & Light Commission	GA	37.083
37	Favetteville Public Works Commission	NC	81 831	87	Ioneshoro City Water & Light	AR	36 658
38	Johnson City Power Board	TN	78 102	88	Provo City Power	UT	36 538
39	Cleveland Public Power	OH	73 364	89	Loveland Water & Power	(0	36 377
40	Fort Collins Hitilities	0	72 523	90	Rock Hill City of	SC	36 369
л1	Kissimmee I Itility Authority	FI	71 770	91	Jackson Energy Authority	TN	36.031
/12	Springfield City Water Light & Power	11	71 376	97	Anderson Municipal Light & Power	IN	35 610
∠ //3	Garland City of	TX	69 929	92	Vero Beach City of	FI	35 560
ч <u>э</u> ЛЛ	Clarksville Department of Electricity	TN	69 156	9 <i>1</i>	Alameda Municinal Power	CA	35,500
44 15	Lafavette Utilities System	IΔ	66 861	05	Dickson Electric System	TN	3/ 706
45	Greenville Hilities Commission	NC	66 501	96	Beaches Energy Services	FI	3/1 705
47	Kansas City Board of Public Hitilities	KS	65 501	97	Wilson Energy	NC	34,755
/18	Lenoir City Hilities Roard	TN	64 400	0.Q	Rristol Tennessee Essential Services	TN	33 570
<u>д</u> а	Pasadena Water and Power Department	CA	64 2/19	90	Mason County Public Litility District No. 3	١٨/٨	33,575
50	Murfreechoro Electric Department	TN	61 627	100	Springfield Hitility Board	OR W/	32 057
50	Maniecoboro Liccine Department	IIN	01,007	100	Springheid offity bodid	UN	52,057

SALES AND REVENUE

100 Largest Public Power Utilities by Electric Revenues, 2017

Revenues from sales to ultimate customers and sales for resale. Revenues in thousands.

1	Los Angeles Department of Water & Power	CA	\$3,603,880	51	Cowlitz County, Public Utility District No. 1 of	WA	\$264,978
2	Long Island Power Authority	NY	\$3,409,213	52	Gainesville Regional Utilities	FL	\$262,240
3	Salt River Project	AZ	\$3,085,650	53	Eugene Water & Electric Board	OR	\$259,789
4	Puerto Rico Electric Power Authority	PR	\$3,006,326	54	Piedmont Municipal Power Agency	SC	\$254,408
5	CPS Energy	ТХ	\$2,371,659	55	Tallahassee Electric Utility, City of	FL	\$253,277
6	New York Power Authority	NY	\$1,765,667	56	Springfield City Water, Light & Power	IL	\$252,222
7	Santee Cooper (South Carolina Public Service Authority)	SC	\$1,732,822	57	Sam Rayburn Municipal Power Agency	ТХ	\$251,617
8	Sacramento Municipal Utility District	CA	\$1,491,634	58	Garland, City of	ТХ	\$248,775
9	JEA	FL	\$1,333,266	59	Lubbock Power & Light	ТХ	\$246,423
10	Memphis Light, Gas and Water Division	TN	\$1,221,308	60	Kansas City Board of Public Utilities	KS	\$243,214
11	Nashville Electric Service	TN	\$1,221,275	61	Massachusetts Municipal Wholesale Electric Co.	MA	\$234,463
12	Austin Energy	ТΧ	\$1,216,872	62	Glendale Water & Power	CA	\$218,667
13	Omaha Public Power District	NE	\$1,111,288	63	Southern Minnesota Municipal Power Agency	MN	\$212,403
14	Nebraska Public Power District	NE	\$1,023,995	64	Platte River Power Authority	CO	\$208,552
15	American Municipal Power	OH	\$1,000,682	65	Michigan Public Power Agency	MI	\$206,304
16	Seattle City Light	WA	\$973,185	66	Virgin Islands Water & Power Authority	VI	\$203,944
17	MEAG Power	GA	\$791,103	67	Fayetteville Public Works Commission	NC	\$202,777
18	Southern California Public Power Authority	CA	\$784,739	68	Alabama Municipal Electric Authority	AL	\$202,297
19	Orlando Utilities Commission	FL	\$713,584	69	Lafayette Utilities System	LA	\$200,746
20	Snohomish County, Public Utility District No. 1 of	WA	\$643,243	70	Burbank Water and Power	CA	\$196,323
21	EPB - Chattanooga Electric Power Board	TN	\$538,249	71	Roseville Electric	CA	\$195,981
22	North Carolina Eastern Municipal Power Agency	NC	\$531,180	72	Cleveland Public Power	OH	\$191,989
23	Knoxville Utilities Board	TN	\$522,324	73	Johnson City Power Board	TN	\$191,854
24	Florida Municipal Power Agency	FL	\$520,733	74	Anchorage Municipal Light & Power	AK	\$190,074
25	North Carolina Municipal Power Agency No. 1	NC	\$519,782	75	Missouri River Energy Services	SD	\$190,001
26	Energy Northwest	WA	\$507,855	76	Oklahoma Municipal Power Authority	OK	\$187,610
27	Intermountain Power Agency	UT	\$502,163	77	Pasadena Water and Power Department	CA	\$183,962
28	Huntsville Utilities	AL	\$473,892	78	Kissimmee Utility Authority	FL	\$169,828
29	WPPI Energy	WI	\$466,359	79	Greenville Utilities Commission	NC	\$169,162
30	IID Energy	CA	\$441,430	80	Bryan Texas Utilities	ТХ	\$169,156
31	Colorado Springs Utilities	CO	\$435,290	81	Utah Associated Municipal Power Systems	UT	\$165,406
32	Grand River Dam Authority	OK	\$419,925	82	Vernon, City of	CA	\$161,303
33	Indiana Municipal Power Agency	IN	\$418,472	83	Murfreesboro Electric Department	TN	\$161,125
34	Silicon Valley Power	CA	\$408,609	84	Clarksville Department of Electricity	TN	\$157,727
35	Anaheim Public Utilities	CA	\$408,265	85	Naperville Department of Public Utilities	IL	\$157,609
36	Lower Colorado River Authority	TX	\$401,756	86	Lenoir City Utilities Board	TN	\$157,603
37	Tacoma Public Utilities	WA	\$398,872	87	Northern California Power Agency	CA	\$147,169
38	Clark Public Utilities	WA	\$386,619	88	Rochester Public Utilities	MN	\$145,287
39	Modesto Irrigation District	CA	\$370,722	89	Denton Municipal Electric	ΤX	\$143,289
40	Turlock Irrigation District	CA	\$336,862	90	Connecticut Municipal Electric Energy Cooperative	CT	\$142,873
41	Guam Power Authority	GU	\$331,074	91	Sevier County Electric System	TN	\$142,161
42	Chelan County Public Utility District No. 1	WA	\$329,661	92	Redding, City of	CA	\$141,708
43	Missouri Joint Municipal Electric Utility Comm	MO	\$328,974	93	Jackson Energy Authority	TN	\$141,447
44	Illinois Municipal Electric Agency	IL	\$317,981	94	Owensboro Municipal Utilities	KY	\$140,523
45	Riverside Public Utilities, City of	CA	\$313,482	95	Vinton Public Power Authority	LA	\$140,269
46	Lincoln Electric System	NE	\$306,765	96	Benton PUD	WA	\$140,032
47	Lansing Board of Water & Light	MI	\$298,526	97	San Francisco (Hetch Hetchy Water & Power), City of	CA	\$138,749
48	Springfield, City Utilities of	MO	\$295,637	98	Independence Power & Light	MO	\$132,606
49	Grant County, Public Utility District No. 2 of	WA	\$285,016	99	Brownsville Public Utilities Board	TX	\$130,262
50	Lakeland Electric	FL	\$284,333	100	Fort Collins Utilities	CO	\$128,730

PUBLIC POWER COSTS LESS

cross the country, publicly owned electric utilities continue to provide customers with low-cost energy for homes and businesses. The chart below compares the national average residential, commercial and industrial revenue per kilowatt-hour (kWh) paid by customers of publicly owned, cooperative, and investor-owned utilities in 2017. The map and table on the following pages show revenue per kWh information by state and utility type for full service (bundled) sales.

The tables on page 19 combine bundled and unbundled sales in the national comparisons.

With unbundled sales, customers obtain their power supply from alternative suppliers, but the local utility still provides delivery service. By and large, it is customers in IOU service territories who are participating in retail choice plans and paying unbundled rates. In 2017, IOUs provided delivery service for more than 99 percent of unbundled sales. Thus, over 99 percent of the unbundled revenues and sales are included in the investor-owned utility average rate calculation.

Residential customers in IOU service territories paid average rates that were 13 percent above those paid by customers of publicly owned systems during 2017. Public power customers paid an average of 11.8 cents per kWh for residential electric service, compared to 13.5 cents per kWh paid by residential customers of IOUs, and 11.9 cents per kWh paid by residential customers of cooperative systems.

Commercial customers of IOUs paid slightly more for electricity than public power customers in 2017, while cooperative commercial customers paid slightly less. Public power commercial customers paid an average of 10.8 cents per kWh, compared to 10.9 cents per kWh paid by commercial customers of IOUs, and 10.7 cents per kWh for cooperative commercial cusResidential customers in IOU service territories paid average rates that were 13 percent above those paid by customers of publicly owned systems...

Commercial customers of IOUs paid slightly more for electricity than public power customers in 2017

tomers. Average rates for industrial customers of IOUs were 7.0 cents per kWh versus 7.4 cents per kWh for public power industrial customers. Industrial customers of cooperative utilities paid average rates of 7.2 cents per kWh.

The 2017 averages presented here are based on the Department of Energy, Energy Informa-

tion Administration's data from Form EIA-861, "Annual Electric Utility Report." Most utilities with under 100,000 MWH in total sales report sales and revenue information on Form EIA-861S. Though total revenue and sales data are available, individual sector data for these utilities are not. As such, these utilities, which represent approximately one percent of total customer load in the United States, were not included in these calculations.

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SALES AND REVENUE

Trends in Average Revenue by Customer Class



Public Power







SALES AND REVENUE

Average Retail Electric Rates by Customer Class, 2017





DATA BY STATE

Public Power Is Affordable

Keeping electricity costs low is a priority for public power. Nationwide, the average residential customer served by public power pays 11.8 cents per kilowatt-hour, compared to 11.9 cents for cooperative utilities and 13.5 cents for customers served by investor-owned utilities.

For the average U.S. household, that amounts to \$176.79 saved each year, or about \$15 less per month.*

U.S. average retail electric rates, in cents per kWh

	Residential customers	Commercial customers	Industrial customers
Public Power	11.8	10.8	7.4
Cooperative	11.9		7.2
Investor-Owned	13.5	10.9	7.0

State to state, public power rates are competitive. This map shows the average revenue from bundled sales per kWh for residential, commercial and industrial customers served by public power, cooperative and investor-owned utilities in 2017. Take a look to see how your state compares.



*Based on the Energy Information Administration's estimate of 10,399 kWh of annual average electricity consumption per U.S. residential customer in 2017.





DATA BY STATE

Utility Sector Rate Comparison by State, 2017

Cents per kilowatt-hour • Table reflects full-service (bundled) sales only.

		Residential		Commercial		Industrial		Total				
	Public	Private	Со-ор	Public	Private	Со-ор	Public	Private	Со-ор	Public	Private	Со-ор
Alabama	10.5	13.4	12.4	10.5	12.2	11.7	6.4	6.5	6.8	9.6	10.2	11.2
Alaska	16.8	14.7	22.3	16.8	16.2	19.6	18.6	12.3	16.3	16.9	14.7	19.7
Arizona	11.6	13.1	13.1	9.4	11.5	11.5	6.3	6.6	8.8	9.9	11.2	12.2
Arkansas	8.8	10.2	10.8	8.4	8.2	10.0	6.5	6.2	5.6	7.9	8.1	8.6
California	15.7	19.0	15.9	14.6	17.1	15.2	12.0	15.6	8.4	14.4	17.6	14.0
Colorado	11.4	11.6	13.4	8.7	9.7	11.4	7.4	6.7	8.6	9.2	9.6	11.1
Connecticut	15.8	20.1	-	13.3	16.3	-	9.0	15.0	-	12.6	19.2	-
Delaware	13.8	13.8	11.7	12.4	11.7	10.8	9.9	10.3		11.6	13.2	11.5
District of Columbia	-	12.2	-	-	12.0	-	-	-	-	-	12.1	-
Florida	11.4	11.6	11.8	9.8	9.2	10.1	7.9	7.7	8.3	10.3	10.4	11.1
Georgia	11.5	12.4	11.4	10.9	9.7	10.9	6.2	5.6	7.3	9.5	9.4	10.8
Hawaii	-	29.6	-	-	26.7	-	-	22.6	-	-	25.9	-
Idaho	7.5	10.3	9.8	6.2	8.2	7.8	4.9	6.8	5.1	6.6	8.4	8.3
Illinois	12.7	12.3	14.3	12.3	9.3	11.5	9.5	5.6	9.1	11.8	10.9	12.4
Indiana	11.1	12.1	13.1	10.3	10.5	10.9	8.3	7.5	6.9	9.5	9.6	10.8
lowa	11.2	12.4	12.8	9.1	9.5	9.5	7.2	5.9	7.7	8.9	8.4	10.4
Kansas	12.1	13.3	14.1	10.5	10.3	11.8	6.8	7.6	8.2	9.2	10.7	11.2
Kentucky	11.4	10.6	11.1	10.5	9.6	10.5	8.3	6.4	4.8	10.0	8.9	8.2
Louisiana	9.1	9.8	9.7	8.4	9.0	9.2	5.5	5.4	8.1	7.4	7.6	9.4
Maine	12.8	15.6	18.8	11.9	11.6	17.0	11.7	9.5	14.0	12.3	14.2	17.6
Maryland	8.5	13.8	13.1	8.9	12.0	10.6	6.7	10.0	9.2	8.5	13.4	12.1
Massachusetts	13.9	20.8	-	14.1	15.5	-	12.2	15.4	-	13.4	19.0	-
Michigan	13.8	15.6	14.8	12.4	11.3	11.0	9.0	7.4	8.6	11.5	11.8	12.7
Minnesota	12.2	13.3	13.1	10.9	10.5	10.1	8.6	7.1	8.3	10.2	9.9	11.6
Mississippi	10.6	10.5	11.6	10.4	9.4	11.5	6.6	6.5	7.8	9.7	8.8	10.8
Missouri	11.3	11.8	11.3	9.5	9.3	10.3	8.1	7.3	6.7	9.8	10.0	10.2
Montana	-	11.6	-	-	11.1	-	-	7.6	-	-	10.9	-
Nebraska	10.9	-	12.6	8.9	-	11.9	7.4	-	12.6	9.0	-	12.5
Nevada	10.5	12.1	11.0	6.8	8.8	8.9	3.2	6.9	5.4	6.0	9.5	7.2
New Hampshire	14.5	19.8	20.3	14.7	19.8	18.5	13.4	27.7	13.5	14.2	20.0	19.5
New Jersey	14.3	15.5	12.6	14.1	12.8	11.9	11.5	6.4	11.6	13.5	14.3	12.5
New Mexico	11.0	12.6	14.6	10.4	10.1	11.5	5.5	5.3	7.9	8.4	9.5	10.4
New York	18.3	17.5	13.9	17.7	16.1	9.8	4.3	6.9		17.3	16.7	13.0
North Carolina	11.9	10.3	12.3	10.6	7.9	10.2	7.5	5.9	7.1	10.4	8.4	11.4
North Dakota	7.3	10.1	10.5	7.3	8.9	10.1	9.4	7.2	7.7	7.4	9.1	8.7
Ohio	12.6	12.3	13.5	11.9	10.8	12.0	9.5	9.0	8.4	11.0	11.9	12.0
Oklahoma	11.5	10.1	11.5	9.4	7.5	11.0	5.7	5.1	6.2	8.2	7.7	9.7
Oregon	8.9	11.3	9.5	8.2	9.2	8.0	5.1	7.1	5.5	7.2	9.8	7.6
Pennsylvania	13.1	13.7	13.0	12.1	10.8	11.0	9.6	7.0	7.9	11.8	12.8	11.8
Rhode Island	15.7	18.0	-	16.6	16.2	-	14.2	15.6	-	15.3	17.4	-
South Carolina	12.0	12.9	13.6	10.5	10.3	12.2	5.7	6.0	7.5	8.9	9.6	11.9
South Dakota	10.3	12.0	11.9	8.9	10.3	10.7	7.6	7.2	8.4	8.9	10.3	10.5
Tennessee	10.7	9.2	10.9	10.5	9.8	11.2	6.6	6.2	5.8	9.7	7.9	10.2
Texas	10.9	10.9	10.8	9.2	8.4	9.6	6.5	5.3	7.1	9.6	7.7	9.7
Utah	9.9	11.5	8.4	9.0	8.6	7.8	6.5	6.1	6.9	9.0	8.6	7.9
Vermont	15.4	17.6	19.7	14.6	14.4	16.0	13.2	9.8	11.0	14.6	14.2	17.0
Virginia	11.9	11.5	11.7	9.8	7.8	10.8	7.3	6.4	6.9	10.1	9.0	10.2
Washington	8.9	10.8	8.9	7.8	9.8	7.8	5.0	7.8	6.3	7.4	10.1	8.1
West Virginia	-	11.6	-	-	9.6	-	-	6.6	-	-	9.0	-
Wisconsin	11.7	14.6	14.5	10.3	10.9	10.9	7.7	7.4	7.7	9.5	10.8	12.6
Wyoming	11.5	12.1	10.0	9.3	10.1	9.1	9.0	6.6	7.9	10.1	7.9	8.7

Source: Department of Energy, Energy Information Administration, Form EIA-861, 2017.

Note: Residential, Commercial, and Industrial rates do not include utilities that filed a Form EIA-861S. Total rates include all utilities.

INDUSTRY STATISTICS

Number of Customers

TOTAL	140,530,888	12,695,583	152,607,373	
Power Marketers	6,968,029	0	6,968,029	4.5%
Behind the Meter	619,098	0	619,098	0.4%
Federal Power Agencies	39,514	1	39,515	0.0%
Cooperatives	19,912,023	7,155	19,919,178	13.0%
Investor-Owned Utilities	90,907,113	12,684,401	103,591,514	67.6%
Publicly Owned Utilities	22,085,111	4,026	22,089,137	14.4%
	Full-Service Customers	Delivery-Only Customers	Total	% of Total

Delivery-only customers represent the number of customers in a utility's service territory that purchase energy from an alternative supplier. Nearly all of power marketers' full-service customers are in Texas. Behind the Meter entities install, own, and/or operate systems (usually solar PV), and sell, under a long term purchase power agreement (PPA) or lease, all the production from the system to the homeowner or business with which there is a net metering agreement. Source: Energy Information Administration Forms EIA-861 and 861S, 2017. Does not include U.S. territories.



Number of Electricity Providers

	Number of Utilities	Percent of Total
Publicly Owned Utilities	2,006	59.1%
Investor-Owned Utilities	182	5.4%
Cooperatives	873	25.7%
Federal Power Agencies	10	0.3%
Behind the Meter	14	0.4%
Community Choice Aggregator	9	0.3%
Power Marketers	303	8.9%
TOTAL	3,397	





DATA BY STATE

Public Power Data by State, 2017

	Ultimate Customers	Sales to Ultimate Customers (MWh)	Generation (MWh)
Alabama	554,652	16,096,994	28,056
Alaska	57,066	1,494,693	2,187,669
Arizona	1,148,645	31,664,135	30,168,036
Arkansas	200,365	6,062,108	1,989,834
California	3,263,300	62,761,353	66,076,802
Colorado	457,156	8,889,305	7,377,996
Connecticut	74,352	1,835,515	13,213
Delaware	69,623	1.967.084	30,533
Florida	1.466.666	35.774.271	33,794,270
Georgia	342.021	11.945.604	13.564.933
idaho	46.644	1.146.527	262,623
Illinois	274 146	6 645 373	4 709 941
Indiana	259.480	7 701 841	3 802 430
lowa	235,100	5 244 111	1 834 362
Kansas	210,455	6 989 183	1 007 312
Kentucky	230,432	6 2/17 3/19	2 250 827
Louisiana	168 897	7 037 600	1 600 2/3
Maine	16,057	315 072	770
Mandand	2/ 511	684 712	6 307
Macsachusetts	/12 670	7 381 303	2 106 270
Michigan	207 705	202,102,7 ארב רפר ד	4 740 026
Minnosota	270,700	0,556,270	4,749,020
Mississioni	125 267	2 760 620	4,770,343
Missouri	135,207	5,705,055 10 E 41 710	7 254 724
Montana	455,025	10,041,712	7,234,734
Nobracka	1 021 224	20,406,242	20 502 027
Neurada	1,031,224	1 025 045	50,302,037
New Hampshire	17 256	1,333,043	-
New Instruction	62 011	170,717	- 110 102
New Mexico	02,311	1,124,730	1 1/2 065
New Vork	1 204 642	2,031,274	1,145,905
North Carolina	1,234,042 606 222	41,230,003	7 100,522
North Dakata	10 706	205 526	7,103,300
Obio	267 E 42	0.675.760	- 0 07E 20E
Ollo	201,342	9,073,700	0,075,505 6 9E2 606
Oragon	204,094	0,07,0,000	740 592
Dependucaria	500,180 95 404	9,818,375	740,583
Perinsylvallia Dhodo Island	65,494 4 726	E2 000	7,248
KIIUUE ISIdIIU	4,/30	D3,000 12 204 C49	-
South Dakata	304,390 61,010	1,2,294,048	20,400,813
	01,010 000 070 0	I,525,590	47
Terre	2,279,290	05,801,829 F1.01(101	-
lexas	1,902,222	51,810,181	51,034,214
Varmont	Z5Z,834	5,019,898	10,113,/18
Vermont	51,/31	/ 18,562	2/4,/61
virginia Weshington	161,353	4,258,229	39,691
wasnington	1,/58,239	49,371,494	43,894,/08
vvest Virginia	3,633	66,974	-
vvisconsin	286,/68	7,600,110	1,839,517
Wyoming	36,/0/ 22,091,330	667,245 577,336,301	545,419 405,492,900

Source: Energy Information Administration Form EIA-861, 2017 data.

Data reflect full-service and delivery-only sales. Note: Table does not include residential customers served by utilities who completed EIA-861S.

Residential sector data are not compiled on that form.

Number of Public Power Utilities, 2017

Public Power Customers as Percentage of Total Residential Customers in State
20.2%
14.3%
36.8%
12.2%
20.1%
16.0%
3.3%
12.5%
13.4%
5.9%
4.2%
2.5%
b.U%
10.1%
12.5%
<u>ک. ا%</u>
5./%
1.5%
U.8%
۵.۵% ۲ ۸۵/
5.4% 11.0%
1 I.9% 7 co/
7.0% 11.404
ΝΔ
1 604
0.6%
0.0%
6.5%
13.0%
10.000
0.470
3 70%
7 20%
15 5%
0.70
0.470
13.0%
10.7%
68.5%
15,2%
18.5%
11.5%
2 0%
50.5%
ΝΔ
8 1%
8 3%
12.6%

Alabama	37	Nebraska	149
Alaska	36	Nevada	8
American Samoa	1	New Hampshire	5
Arizona	29	New Jersey	9
Arkansas	15	New Mexico	7
California	53	New York	51
Colorado	31	North Carolina	74
Connecticut	9	North Dakota	12
Delaware	9	Northern Mariana Islands	1
Florida	34	Ohio	86
Georgia	53	Oklahoma	63
Guam	1	Oregon	18
Idaho	11	Pennsylvania	35
Illinois	42	Puerto Rico	1
Indiana	73	Rhode Island	1
lowa	137	South Carolina	23
Kansas	118	South Dakota	36
Kentucky	29	Tennessee	61
Louisiana	24	Texas	77
Maine	5	Utah	42
Maryland	5	Vermont	15
Massachusetts	42	Virgin Islands	1
Michigan	42	Virginia	17
Minnesota	129	Washington	42
Mississippi	24	West Virginia	2
Missouri	87	Wisconsin	84
Montana	1	Wyoming	14
		Total	2,011

