

A SUPPLEMENT OF PUBLIC POWER MAGAZINE

2022 PUBLIC POWER STATISTICAL REPORT



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CHANGES IN UTILITY INDUSTRY DATA – AND HOW THAT SHAPES THIS REPORT

Electric utilities are awash with data. Within their own operations, there's data on customer usage, costs, system reliability, system efficiency, and worker safety. Broadly across the industry, there are many metrics on electricity generation, capacity, sales, usage, reliability, and workforce characteristics.

For public power utilities, the question is how to make use of all the valuable data at their fingertips – and how to appropriately benchmark their data against general data sets. The Public Power Statistical Report focuses on the key graphs, tables, and data visualizations that American Public Power Association members regularly draw from to inform their benchmarking or marketing efforts. Some ways that APPA and our members use the data from this report (and other reports) include to:

- Quantify and define public power's advantages.
- Benchmark rates.
- Compare a utility's generation mix with others in the region or nationally.
- Rank a utility's size and share of assets.
- Present trends and analysis to governing boards or advisory groups.

Analyzing and sharing data in these ways (and others) is a necessary and constant effort to help utilities continually improve operations, educate key stakeholders, and set meaningful targets. APPA has published this report for more than 50 years so that each of our members can more easily play a role in understanding and communicating the key aspects of how public power is distinguished from – or similar to – the rest of the electric utility industry.

Of course, being able to analyze data and benchmark utilities in this way is more effective when the data is more representative of all utilities. Starting with data for the year 2020, the Energy Information Administration changed its reporting requirements so that utilities with less than 200,000 megawatt-hours in sales were not required to complete the detailed Form EIA-861. This new threshold is twice the previous threshold of 100,000 MWh. This means that about 75% of public power utilities now need only complete the shorter form, which still provides valuable data, but loses details related to specific customer classes – including rates, number of customers served, and sales. This change mostly affected public power reporting. The majority of cooperative and investor-owned utilities still complete the longer form, meaning the data from these parts of the sector are more complete than for public power.

These changes primarily affect two key parts of this report:

1. Details on rates by customer class, such as in the rate comparison by state table on page 17, do not factor in the average rates from smaller utilities.
2. The proportion of customers served by public power in each state as shown in the data by state table (page 23-24) is reduced in some cases.

As regulators, policymakers, and customers pay increased attention to utilities, being able to use data to tell our story becomes increasingly important. This report highlights some key takeaways from the data that can help to tell the public power story – correctly.

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. Additional detailed charts, reports, and data, such as reliability and safety measures, are available on our website and through our programs and services.

Our "Stats and Facts" webpage highlights key industry information and comparisons and links to statistical reports and documents, including the Average Revenue per Kilo-watt-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, including our report on salaries and hourly pay in publicly owned utilities, the report on financial and operating ratios of public power utilities, and subscriptions to the eReliability Tracker and eSafety Tracker services, which allow public power utilities to benchmark reliability and safety on a regional or national scale. my.PublicPower.org/s/Store

If you ever have any questions about any industry data, where to find it, and how to use it, don't hesitate to reach out to us at Statistics@PublicPower.org.

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GENERATION

U.S. Electric Generating Capacity by Fuel Type, 2020

National

Nameplate capacity, in megawatts

Fuel Type	MW	Percent of Total
Gas	556,485	45.9%
Coal	233,129	19.2%
Wind	118,728	9.8%
Hydro	101,865	8.4%
Nuclear	100,899	8.3%
Solar	48,339	4.0%
Oil	31,935	2.6%
Other Renewable	18,617	1.5%
Other	2,243	0.2%

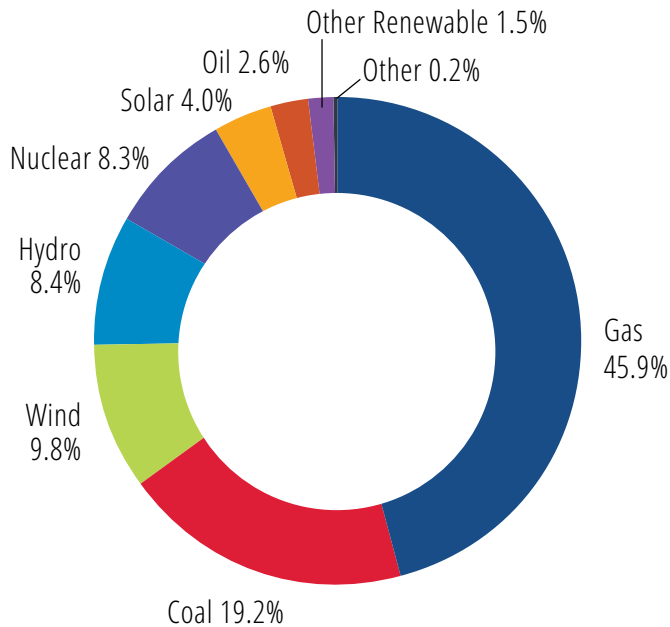


Public power owns a higher portion of hydro assets, and substantially less wind and solar.

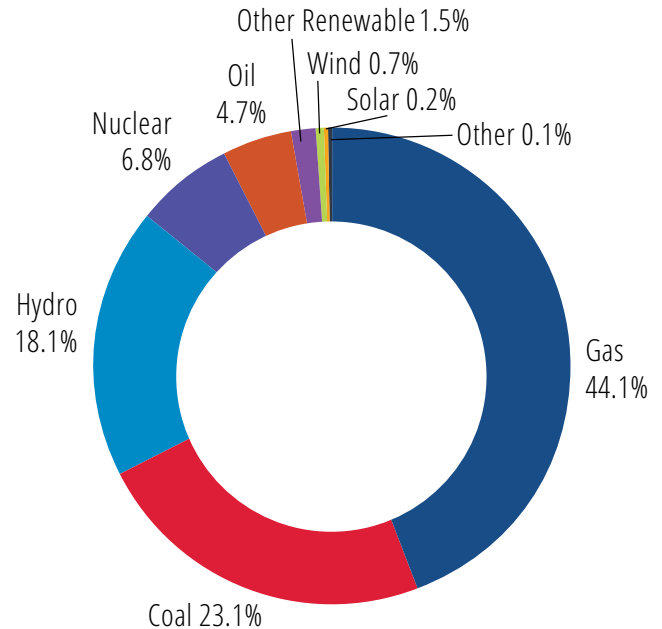
Public Power

Nameplate capacity in megawatts.
Data reflect joint ownership.

Fuel Type	MW	Percent of Total
Gas	52,190	44.1%
Coal	27,304	23.1%
Hydro	21,463	18.1%
Nuclear	8,027	6.8%
Oil	5,609	4.7%
Other Renewable	1,776	1.5%
Wind	809	0.7%
Solar	244	0.2%
Other	89	0.1%



Source: Energy Information Administration Form EIA-860 for capacity, including adjustments for joint ownership.



Source: Energy Information Administration Form EIA-860 as of 9/30/21.

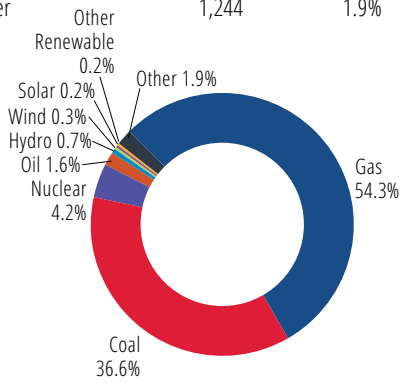
GENERATION

U.S. Electric Generating Capacity By Utility Type and Fuel Type, 2020

Nameplate capacity in megawatts. Data reflect joint ownership.

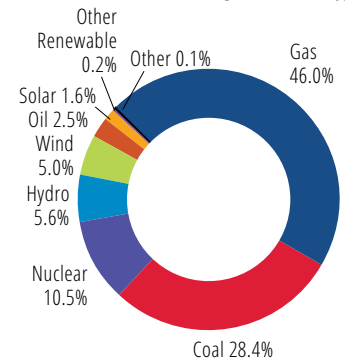
Cooperative

Fuel Type	MW	Percent of Total
Gas	34,958	54.3%
Coal	23,582	36.6%
Nuclear	2,725	4.2%
Oil	1,062	1.6%
Hydro	432	0.7%
Wind	171	0.3%
Other Renewable	109	0.2%
Solar	102	0.2%
Other	1,244	1.9%



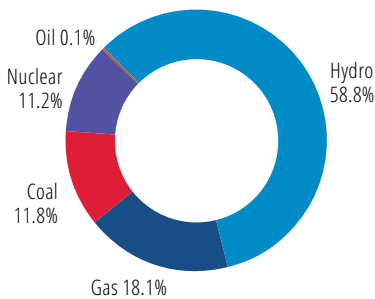
Investor-Owned

Fuel Type	MW	Percent of Total
Gas	202,443	46.0%
Coal	25,070	28.4%
Nuclear	46,339	10.5%
Hydro	24,616	5.6%
Wind	21,924	5.0%
Oil	10,963	2.5%
Solar	7,229	1.6%
Other Renewable	941	0.2%
Other	223	0.1%



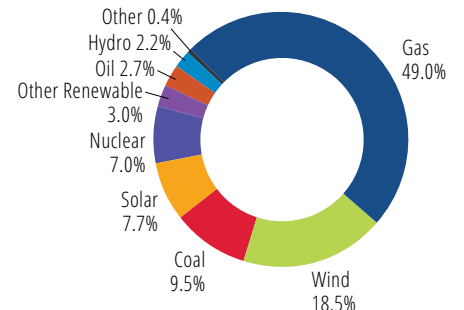
Federal

Fuel Type	MW	Percent of Total
Hydro	42,340	58.8%
Gas	13,015	18.1%
Coal	8,475	11.8%
Nuclear	8,105	11.2%
Oil	66	0.1%
Wind	25	0.0%
Other Renewable	23	0.0%
Solar	5	0.0%
Other	4	0.0%



Non-Utility Generators

Fuel Type	MW	Percent of Total
Gas	253,878	49.0%
Wind	95,538	18.5%
Coal	49,068	9.5%
Solar	39,663	7.7%
Nuclear	36,428	7.0%
Other Renewable	15,707	3.0%
Oil	14,054	2.7%
Hydro	11,479	2.2%
Other	1,817	0.4%



Source: Energy Information Administration Form EIA-860 as of 9/30/21.

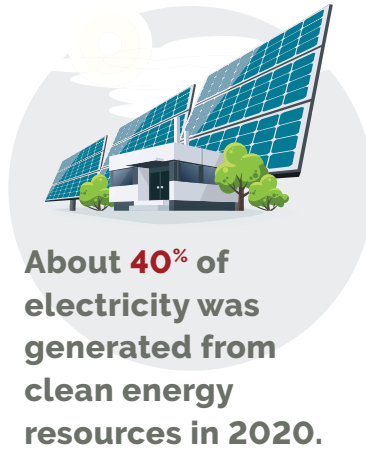
GENERATION

U.S. Electric Generation by Fuel Type, 2020

National

Generation, in thousands of megawatt-hours

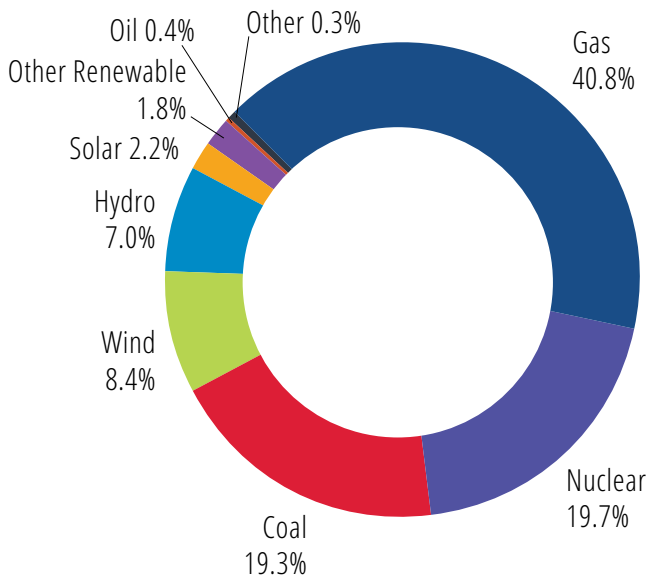
Fuel Type	MWh	Percent of Total
Gas	1,635,868	40.8%
Nuclear	789,879	19.7%
Coal	773,393	19.3%
Wind	337,938	8.4%
Hydro	279,953	7.0%
Solar	89,199	2.2%
Other Renewable	70,593	1.8%
Oil	17,341	0.4%
Other	12,855	0.3%



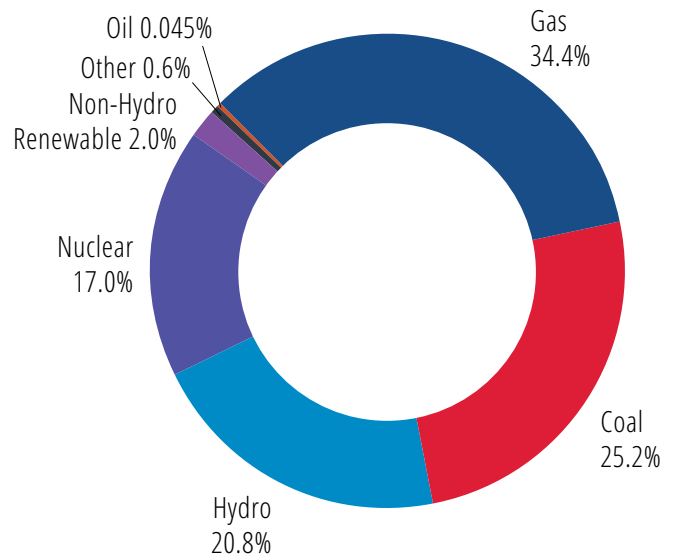
Public Power

Generation, in megawatt-hours

Fuel Type	MWh	Percent of Total
Gas	124,307,010	34.4%
Coal	90,974,582	25.2%
Hydro	75,115,905	20.8%
Nuclear	61,508,931	17.0%
Non-Hydro Renewable	7,153,265	2.0%
Other	2,026,858	0.6%
Oil	163,049	0.045%



Source: Energy Information Administration Form EIA-923



Source: Ventyx Velocity Suite, October 2021

Proportion of Generation vs. Capacity, 2020

Fuel type	% Capacity	% Generation	Difference
Gas	45.9%	40.8%	-5.1%
Coal	19.2%	19.3%	0.1%
Wind	9.8%	8.4%	-1.4%
Nuclear	8.3%	19.7%	11.4%
Hydro	8.4%	7.0%	-1.4%
Solar	4.0%	2.2%	-1.8%
Oil	2.6%	0.4%	-2.2%
Other Renewable	1.5%	1.8%	0.2%
Other	0.2%	0.3%	0.1%

Capacity doesn't directly correlate to generation – variable and flexible resources often mean needing to build more than what is used.

GENERATION

2020 Generation by Public Power Utilities

In megawatt-hours

Census Region	Coal	Oil	Gas	Nuclear	Hydro	Non-Hydro Renewable	Other	Total
New England -								
Mid Atlantic	-	27,253	4,038,725	3,503,055	25,547,793	683,393	391,441	34,191,660
South Atlantic	16,361,475	43,979	51,473,297	20,911,613	841,887	1,431,263	1,348,007	92,411,521
East South Central -								
West South Central	19,623,852	23,858	22,444,164	12,296,904	2,615,986	28,724	-	57,033,488
East North Central -								
West North Central	31,142,824	74,745	7,614,837	6,188,551	1,398,516	1,568,921	75,496	48,063,890
Mountain	23,846,431	(134,614)	18,451,049	9,181,758	1,224,267	335,922	53,205	52,958,018
Pacific	-	127,828	20,284,938	9,427,050	43,487,456	3,105,042	158,709	76,591,023
Total	90,974,582	163,049	124,307,010	61,508,931	75,115,905	7,153,265	2,026,858	361,249,600

Source: Ventyx Velocity Suite, October 2021

Census Region	States	Census Region	States
New England	CT, MA, ME, NH, RI, and VT	East North Central	IL, IN, MI, OH, and WI
Mid-Atlantic	NJ, NY, and PA	West North Central	IA, KS, MN, MO, ND, NE, and SD
South Atlantic	DC, DE, FL, GA, MD, NC, SC, VA, and WV	Mountain	AZ, CO, ID, MT, NM, NV, UT, WY
East South Central	AL, KY, MS, and TN	Pacific	AK, CA, HI, OR, and WA
West South Central	AR, LA, OK, and TX		

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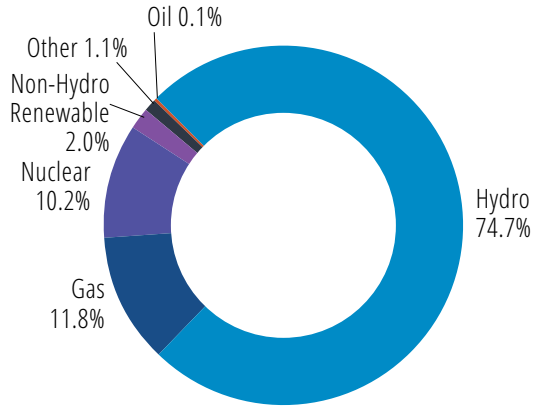
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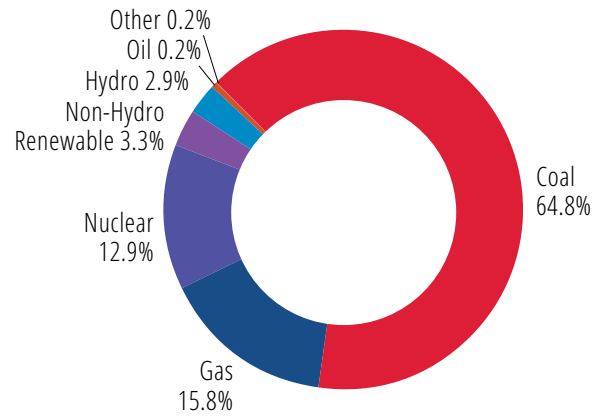
GENERATION

2020 Generation by Public Power Utilities, by Region

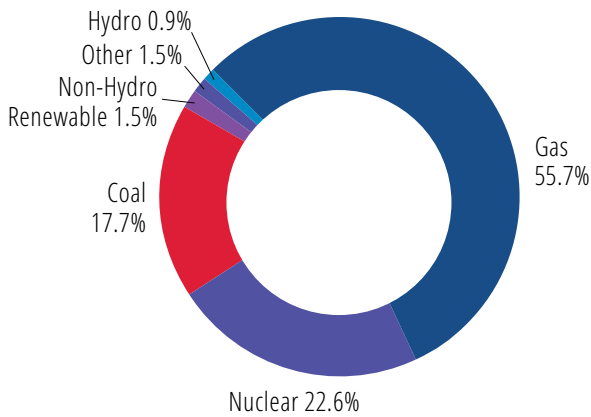
New England - Mid Atlantic



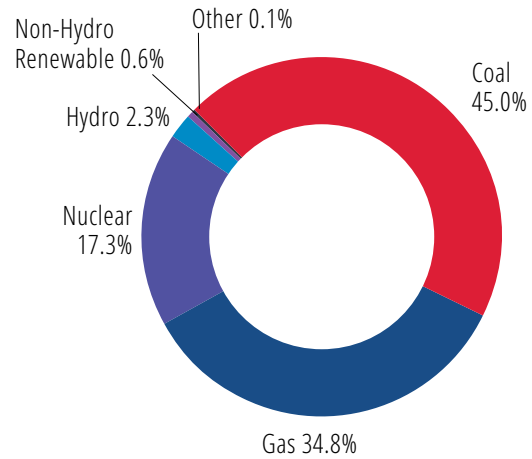
East North Central - West North Central



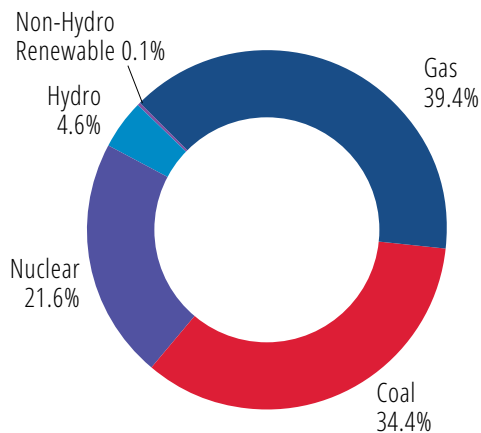
South Atlantic



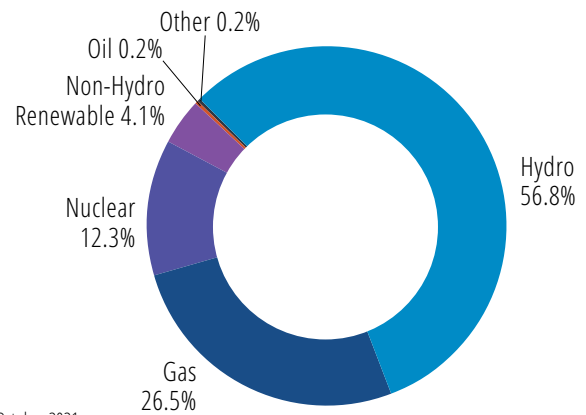
Mountain



East South Central - West South Central



Pacific



Source: Ventyx Velocity Suite, October 2021

GENERATION

U.S. Electric Generation, 2010 vs. 2020

In thousands of megawatt-hours

Fuel type	2010		2020	
	MWh	Pct	MWh	Pct
Gas	997,097	24.0%	1,635,868	40.8%
Nuclear	806,968	19.4%	789,879	19.7%
Coal	1,874,951	45.1%	773,393	19.3%
Wind	91,980	2.2%	337,938	8.4%
Hydro	260,552	6.3%	279,953	7.0%
Solar	1,389	0.0%	89,199	2.2%
Other Renewable	83,841	2.0%	70,593	1.8%
Oil	37,061	0.9%	17,341	0.4%
Other	3,149	0.1%	12,855	0.3%

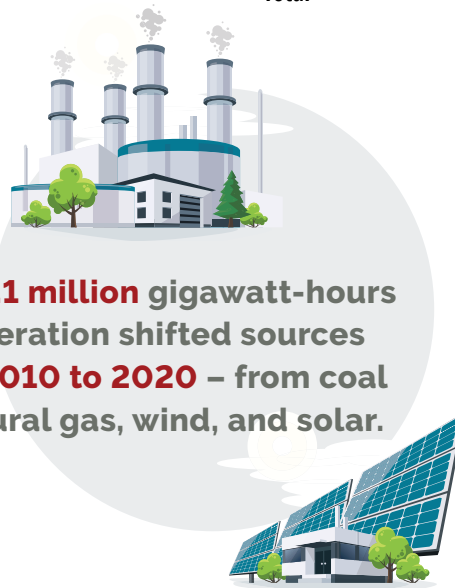
Generation by Public Power Utilities, 2010 vs. 2020

Fuel Type	2010		2020	
	MWh	Pct	MWh	Pct
Coal	186,781,884	46.3%	90,974,582	25.2%
Hydro	69,952,303	17.3%	75,115,905	20.8%
Nuclear	69,512,434	17.2%	61,508,931	17.0%
Gas	64,775,787	16.0%	124,307,010	34.4%
Non-Hydro Renewable	7,854,394	1.9%	7,153,265	2.0%
Oil	4,755,645	1.2%	163,049	0.0%
Other	59,112	0.0%	2,026,858	0.6%

Source: Ventyx Velocity Suite, January 2012 and October 2021

Generation Capacity Additions by Fuel Type, 2014 – 2021

Fuel Type	Nameplate Capacity (MW)	Share
Natural Gas	80,488.46	37.14%
Wind	72,546.41	33.47%
Solar	58,080.77	26.80%
Hydro	1,317.51	0.61%
Nuclear	1,269.90	0.59%
Wood/Wood Waste Solids	613.53	0.28%
Distillate Fuel Oil	613.20	0.28%
Geothermal	401.70	0.19%
Landfill Gas	272.70	0.13%
Waste Heat	270.43	0.12%
Biomass Gases	192.65	0.09%
Wood Waste Liquids	148.00	0.07%
Coal	128.70	0.06%
Waste	116.29	0.05%
Other	54.70	0.03%
Liquified Natural Gas	50.63	0.02%
Biomass Liquids	50.00	0.02%
Purchased Steam	45.00	0.02%
Other Gas	25.70	0.01%
Refuse	15.40	0.01%
Biomass Solids	11.70	0.01%
Biomass Other	3.34	0.00%
Jet Fuel	2.00	0.00%
Agriculture Byproduct	1.00	0.00%
Total	216,719.71	



Over **1.1 million** gigawatt-hours of generation shifted sources from **2010 to 2020** – from coal to natural gas, wind, and solar.

GENERATION

Renewable Capacity by Owner Type (2010-2020)

Nameplate capacity, in megawatts

Fuel type	Cooperative			Federal			Investor-Owned			Public Power			Non-Utility Generators			Total		
	2010	2020	change	2010	2020	change	2010	2020	change	2010	2020	change	2010	2020	change	2010	2020	change
Geothermal		3.7					38.1	108.7	185%	220.0	220.0	0%	3,239.7	3,532.2	9%	3,497.8	3,864.6	10%
Solar		102.0		2.3	4.9	113%	150.1	7,543.3	4,926%	6.7	244.2	3,545%	828.2	44,656.5	5,292%	987.3	52,550.9	5,223%
Wind	206.9	431.6	109%	5.6	25.4	354%	5,198.5	22,000.0	323%	703.7	842.0	20%	33,401.6	100,783.0	202%	39,516.3	124,082.0	214%
Biomass Fuels	110.3	166.9	51%	0.0	22.7		599.1	873.2	46%	277.9	1,655.6	496%	11,998.6	12,784.7	7%	12,985.9	15,503.1	19%
Hydro	994.7	431.6	-57%	42,090.0	42,339.7	1%	24,427.5	24,615.6	1%	20,825.7	21,463.5	3%	10,404.4	11,479.3	10%	98,742.3	100,329.6	2%
Total	1,311.8	1,135.8	-13%	42,097.9	42,392.7	1%	30,413.4	55,140.8	81%	22,034.0	24,425.3	11%	59,879.0	173,235.7	189%	155,736.1	296,330.2	90%

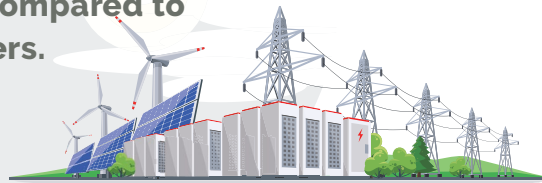
Generation from Renewable Energy, by Fuel Type, 2020

Fuel Type	MWh	Percent
Wind	337,938	43.5%
Hydro	279,953	36.0%
Solar	89,199	11.5%
Biomass Fuels	54,703	7.0%
Geothermal	15,890	2.0%
Total Renewable Generation	777,682	

Permitted Plants and Plants Under Construction, by Fuel Type

Fuel Type	Nameplate Capacity (MW)	Share
Solar	54,372.91	48.18%
Natural Gas	26,900.76	23.84%
Wind	25,683.23	22.76%
Hydro	2,910.19	2.58%
Nuclear	2,560.00	2.27%
Geothermal	238.00	0.21%
Agriculture Byproduct	49.90	0.04%
Biomass Solids	36.50	0.03%
Biomass Gases	30.50	0.03%
Waste Heat	28.60	0.03%
Other	26.40	0.02%
Landfill Gas	12.08	0.01%
Distillate Fuel Oil	7.60	0.01%
Biomass Other	2.00	0.00%
Total	112,858.67	

While all types of owners have significantly increased solar and wind capacity, non-utility generators and investor-owned utilities have been able to increase their renewable capacity substantially compared to nonprofit owners.



GENERATION

Public Power Capacity from Power Purchase Agreements

In megawatts

Fuel Type	Under Contract		Planned		Total	Public Power Owned Capacity*
	2021	2020	2021	2020		
Solar	3,089.04	3,815.67	2,336.97	3,682.15	12,923.83	244
Wind	3,218.93	4,526.90	405	1,112.40	9,263.23	842
Hydro	4,334.36	2,995.51	71	3	7,403.87	21,463
Other Renewable	137.25	1,020.80	66	248.4	1,472.45	1,875
Natural Gas	7,009.00	6,271.30	510	776	14,566.30	52,190
Coal	1,342.72	3,360.60	0	0	4,703.32	27,304
Nuclear	501.1	1,226.60	194	200	2,121.70	8,027
Other Non-Renewable	220.8	690	140.8	115	1,166.60	5,698

*Power purchase agreement totals are from APPA member surveys, whereas capacity totals are for all public power utilities.

Public power **renewable capacity almost doubles** when factoring in power purchase agreements.

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WHERE – AND HOW – PUBLIC POWER IS GROWING

Comparing the lists of the Top 100 public power organizations from 2010 to 2020 revealed some trends in generation, sales, and revenue, and where customer bases are growing.

KEY TRENDS

The 100 utilities with the most customers in 2020 saw their customer base grow by an average of **13%** over the past 10 years – far ahead of the **5% average growth** across all public power utilities.

The top 100 public power generators have seen a **26% average increase in megawatt-hours generated.**

10 utilities more than doubled their generation.

However, 60 of the Top 100 generators also generated less electricity in 2020 compared to 2010, generating a median of **65,577 MWh less.**

Sales grew by a median of **0.3%**

Total sales from the top 100 entities declined by more than **3.7 million** kilowatt-hours, with a median of about **2,000 fewer kwh sold** per utility in 2020 compared to 2010.

The top 100 entities collectively grew annual revenue by **\$4.5 billion**

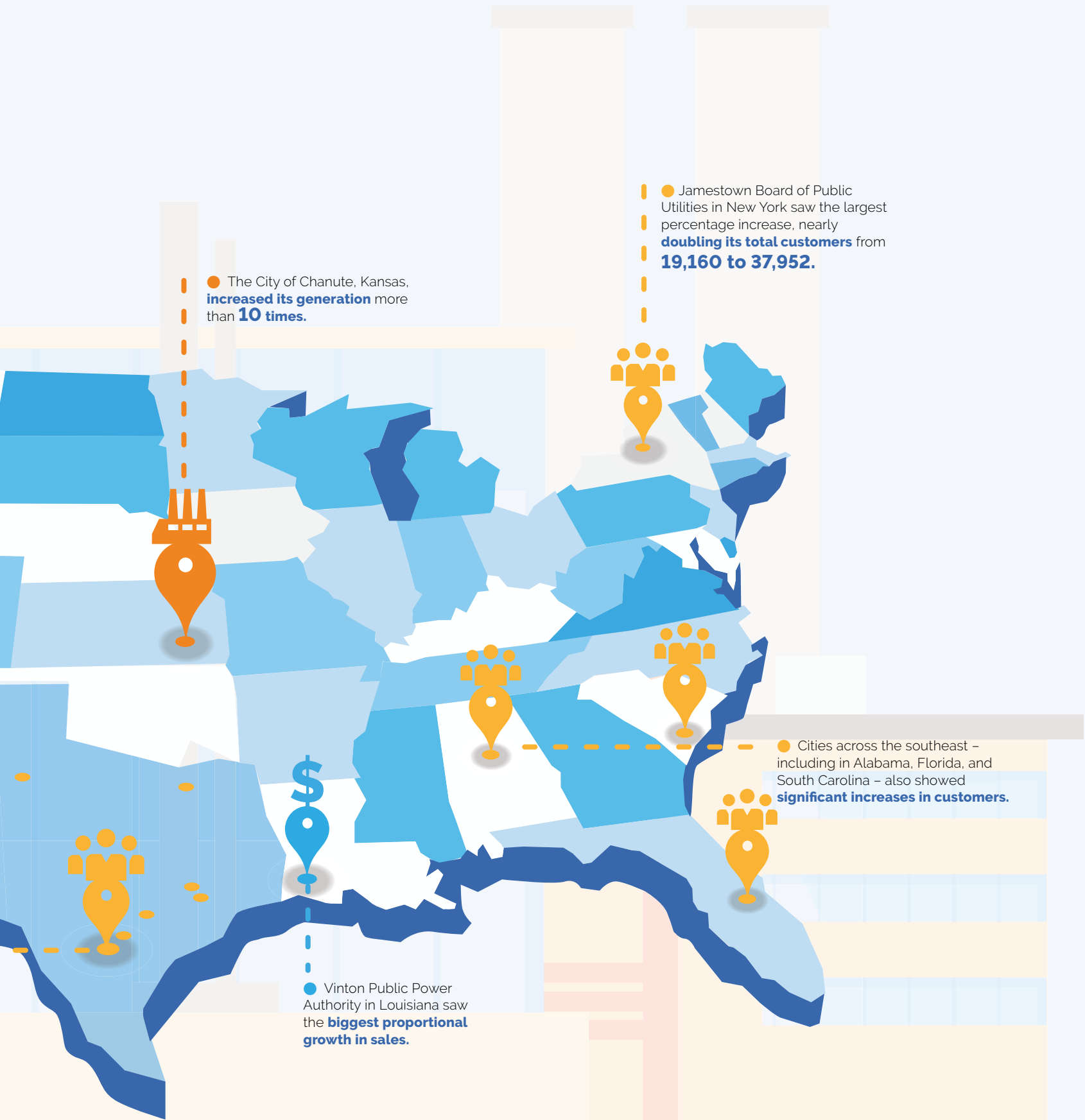
Revenue grew by a median of **12%** and **\$30 million**



● Seven entities in Washington state saw **sales increase by 5% or more.**

● CPS Energy, which serves San Antonio, TX, saw the largest increase in total customers, gaining **158,332.**

Seven Texas utilities saw **customers grow by 20% or more.**



● The City of Chanute, Kansas, **increased its generation** more than **10 times**.

● Jamestown Board of Public Utilities in New York saw the largest percentage increase, nearly **doubling its total customers** from **19,160 to 37,952**.

● Vinton Public Power Authority in Louisiana saw the **biggest proportional growth in sales**.

● Cities across the southeast - including in Alabama, Florida, and South Carolina - also showed **significant increases in customers**.

INDUSTRY STATISTICS

100 Largest Public Power Systems by Generation, 2020

Net Generation in megawatt-hours

1	New York Power Authority	NY	31,486,230	51	Lansing Board of Water & Light	MI	1,197,833
2	Salt River Project	AZ	31,470,946	52	WPPI Energy	WI	1,194,589
3	CPS Energy	TX	23,313,357	53	Southern Minnesota Municipal Power Agency	MN	1,177,842
4	Los Angeles Department of Water & Power	CA	21,486,992	54	San Francisco (Hetch Hetchy Water & Power), City of	CA	1,173,141
5	Santee Cooper (South Carolina Public Service Authority)	SC	16,898,366	55	Utah Associated Municipal Power Systems	UT	1,172,601
6	Nebraska Public Power District	NE	14,603,218	56	Kansas City Board of Public Utilities	KS	1,078,879
7	Lower Colorado River Authority	TX	13,638,666	57	Lincoln Electric System	NE	1,034,379
8	Puerto Rico Electric Pwr Authority	PR	11,324,336	58	Yuba County Water Agency	CA	888,787
9	JEA	FL	11,007,871	59	Brownsville Public Utilities Board	TX	872,338
10	MEAG Power	GA	10,929,290	60	Holland Board of Public Works	MI	840,205
11	Grant County, Public Utility District No. 2 of	WA	9,958,776	61	Minnesota Municipal Power Agency	MN	811,001
12	Energy Northwest	WA	9,786,170	62	Western Minnesota Municipal Power Agency	MN	779,970
13	Omaha Public Power District	NE	9,703,433	63	Farmington, City of	NM	735,322
14	Chelan County Public Utility District No. 1	WA	8,771,040	64	Anchorage Municipal Light & Power	AK	722,291
15	Austin Energy	TX	8,625,175	65	Northern Municipal Power Agency	MN	712,651
16	Florida Municipal Power Agency	FL	8,256,986	66	Dalton Utilities	GA	690,680
17	American Municipal Power	OH	8,163,284	67	Utah Municipal Power Agency	UT	680,289
18	Southern California Public Power Authority	CA	7,641,182	68	Lafayette Public Power Authority	LA	656,054
19	North Carolina Municipal Power Agency No. 1	NC	7,091,336	69	Virgin Islands Water & Power Authority	VI	643,646
20	Intermountain Power Agency	UT	6,761,939	70	NMPP Energy: Municipal Energy Agency of Nebraska	NE	577,204
21	Orlando Utilities Commission	FL	6,596,162	71	Modesto Irrigation District	CA	568,604
22	Sacramento Municipal Utility District	CA	6,414,380	72	Snohomish County, Public Utility District No. 1 of	WA	549,477
23	Metropolitan Water District of Southern California	CA	6,315,356	73	Muscatine Power & Water	IA	539,312
24	Seattle City Light	WA	6,006,204	74	Placer County Water Agency	CA	512,147
25	Grand River Dam Authority	OK	5,560,646	75	Jonesboro City Water & Light	AR	498,524
26	Colorado Springs Utilities	CO	4,553,871	76	Fremont Department of Utilities	NE	491,919
27	Douglas County, Public Utility District No. 1 of	WA	4,377,027	77	Central Nebraska Public Power & Irrigation District	NE	448,979
28	Indiana Municipal Power Agency	IN	3,474,747	78	Hastings, City of	NE	447,827
29	Oklahoma Municipal Power Authority	OK	3,122,745	79	Pend Oreille County, Public Utility District No. 1 of	WA	447,446
30	Missouri Joint Municipal Electric Utility Comm	MO	3,031,810	80	Burbank Water and Power	CA	426,160
31	Tacoma Public Utilities	WA	2,680,996	81	Louisiana Energy and Power Authority	LA	422,419
32	Tallahassee Electric Utility, City of	FL	2,666,451	82	Owensboro Municipal Utilities	KY	413,462
33	Illinois Municipal Electric Agency	IL	2,617,570	83	Redding, City of	CA	363,694
34	Platte River Power Authority	CO	2,529,831	84	Grand Island, City of	NE	360,354
35	Lakeland Electric	FL	2,461,449	85	Tri-Dam Project	CA	354,658
36	Piedmont Municipal Power Agency	SC	2,422,540	86	Roseville Electric	CA	310,358
37	Silicon Valley Power	CA	2,394,708	87	Wyoming Municipal Power Agency	WY	287,062
38	California Department of Water Resources	CA	2,332,168	88	West Memphis, City of	AR	285,784
39	Turlock Irrigation District	CA	2,190,420	89	Independence Power & Light	MO	278,044
40	Gainesville Regional Utilities	FL	1,873,441	90	Toledo Bend Project	TX	267,427
41	Long Island Power Authority	NY	1,830,165	91	Commonwealth Utility Corporation	MP	252,882
42	Springfield, City Utilities of	MO	1,816,278	92	Los Alamos County Utilities	NM	250,710
43	Northern California Power Agency	CA	1,806,587	93	Ames, City of	IA	244,280
44	Massachusetts Municipal Wholesale Electric Co.	MA	1,664,515	94	Eugene Water & Electric Board	OR	244,071
45	Guam Power Authority	GU	1,621,132	95	Merced Irrigation District	CA	242,914
46	Clark Public Utilities	WA	1,617,135	96	Chanute, City of	KS	240,406
47	Sikeston Board of Municipal Utilities	MO	1,594,093	97	Kings River Conservation District	CA	240,148
48	Springfield City Water, Light & Power	IL	1,566,021	98	Holyoke Gas & Electric	MA	240,004
49	Michigan Public Power Agency	MI	1,399,166	99	Idaho Falls Power	ID	230,040
50	IID Energy	CA	1,204,555	100	Gillette, City of	WY	211,591

INDUSTRY STATISTICS

100 Largest Public Power Utilities by Electric Revenues, 2020

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

1	Los Angeles Department of Water & Power	CA	\$4,103,877	51	Tallahassee Electric Utility, City of	FL	\$254,084
2	Long Island Power Authority	NY	\$3,649,037	52	Eugene Water & Electric Board	OR	\$248,263
3	Salt River Project	AZ	\$3,307,076	53	Gainesville Regional Utilities	FL	\$246,600
4	Puerto Rico Electric Power Authority	PR	\$3,233,432	54	Cowlitz County, Public Utility District No. 1 of	WA	\$244,855
5	CPS Energy	TX	\$2,314,972	55	Garland, City of	TX	\$241,982
6	Santee Cooper (South Carolina Public Service Authority)	SC	\$1,602,924	56	Kansas City Board of Public Utilities	KS	\$239,015
7	Sacramento Municipal Utility District	CA	\$1,541,694	57	Platte River Power Authority	CO	\$234,573
8	New York Power Authority	NY	\$1,359,084	58	Massachusetts Municipal Wholesale Electric Co.	MA	\$227,889
9	Austin Energy	TX	\$1,211,028	59	Virgin Islands Water & Power Authority	VI	\$223,207
10	Nashville Electric Service	TN	\$1,204,531	60	Springfield City Water, Light & Power	IL	\$222,592
11	Memphis Light, Gas and Water Division	TN	\$1,200,275	61	Lubbock Power & Light	TX	\$219,237
12	JEA	FL	\$1,194,460	62	Glendale Water & Power	CA	\$213,506
13	Omaha Public Power District	NE	\$1,117,760	63	Southern Minnesota Municipal Power Agency	MN	\$212,574
14	Seattle City Light	WA	\$1,027,318	64	Sam Rayburn Municipal Power Agency	TX	\$211,775
15	American Municipal Power	OH	\$994,384	65	Fayetteville Public Works Commission	NC	\$210,284
16	Nebraska Public Power District	NE	\$911,625	66	Piedmont Municipal Power Agency	SC	\$207,967
17	Southern California Public Power Authority	CA	\$814,184	67	Pasadena Water and Power Department	CA	\$198,696
18	MEAG Power	GA	\$742,131	68	Cleveland Public Power	OH	\$195,496
19	Orlando Utilities Commission	FL	\$686,532	69	Alabama Municipal Electric Authority	AL	\$194,463
20	Snohomish County, Public Utility District No. 1 of	WA	\$650,593	70	Missouri River Energy Services	SD	\$186,720
21	Lower Colorado River Authority	TX	\$546,700	71	BrightRidge	TN	\$186,589
22	Knoxville Utilities Board	TN	\$518,474	72	Lafayette Utilities System	LA	\$178,850
23	EPB - Chattanooga Electric Power Board	TN	\$517,576	73	Michigan Public Power Agency	MI	\$176,850
24	Intermountain Power Agency	UT	\$512,042	74	Denton Municipal Electric	TX	\$176,464
25	North Carolina Eastern Municipal Power Agency	NC	\$503,956	75	Utah Associated Municipal Power Systems	UT	\$175,831
26	Energy Northwest	WA	\$497,803	76	Oklahoma Municipal Power Authority	OK	\$175,238
27	Florida Municipal Power Agency	FL	\$492,006	77	Kissimmee Utility Authority	FL	\$174,717
28	Huntsville Utilities	AL	\$478,456	78	Burbank Water and Power	CA	\$173,058
29	IID Energy	CA	\$460,563	79	Vernon, City of	CA	\$169,801
30	Indiana Municipal Power Agency	IN	\$454,830	80	Greenville Utilities Commission	NC	\$165,798
31	North Carolina Municipal Power Agency No. 1	NC	\$448,589	81	Lenoir City Utilities Board	TN	\$165,756
32	Colorado Springs Utilities	CO	\$446,602	82	CDE Lightband	TN	\$162,525
33	Silicon Valley Power	CA	\$432,839	83	Roseville Electric	CA	\$159,950
34	Tacoma Public Utilities	WA	\$427,887	84	Bryan Texas Utilities	TX	\$159,475
35	WPPI Energy	WI	\$404,650	85	Naperville Department of Public Utilities	IL	\$152,508
36	Grand River Dam Authority	OK	\$379,940	86	Sevier County Electric System	TN	\$144,262
37	Clark Public Utilities	WA	\$379,785	87	Benton PUD	WA	\$143,890
38	Modesto Irrigation District	CA	\$379,430	88	Rochester Public Utilities	MN	\$143,863
39	Anaheim Public Utilities	CA	\$365,947	89	Brownsville Public Utilities Board	TX	\$142,125
40	Turlock Irrigation District	CA	\$349,398	90	California Department of Water Resources	CA	\$141,216
41	Guam Power Authority	GU	\$333,567	91	Fort Collins Utilities	CO	\$139,243
42	Riverside Public Utilities, City of	CA	\$322,980	92	New Braunfels Utilities	TX	\$138,319
43	Grant County, Public Utility District No. 2 of	WA	\$319,458	93	San Francisco (Hetch Hetchy Water & Power), City of	CA	\$135,440
44	Chelan County Public Utility District No. 1	WA	\$313,990	94	Minnesota Municipal Power Agency	MN	\$135,162
45	Illinois Municipal Electric Agency	IL	\$313,741	95	Redding, City of	CA	\$133,914
46	Missouri Joint Municipal Electric Utility Comm	MO	\$307,830	96	Jackson Energy Authority	TN	\$132,662
47	Lincoln Electric System	NE	\$292,983	97	Northern California Power Agency	CA	\$132,336
48	Lansing Board of Water & Light	MI	\$287,711	98	Palo Alto, City of	CA	\$131,097
49	Lakeland Electric	FL	\$277,044	99	High Point, City of	NC	\$125,849
50	Springfield, City Utilities of	MO	\$275,979	100	Anchorage Municipal Light & Power	AK	\$123,336

INDUSTRY STATISTICS

100 Largest Public Power Utilities by Electric Customers Served, 2020

Ultimate customers served

1	Puerto Rico Electric Power Authority	PR	1,477,167	51	Bryan Texas Utilities	TX	62,732
2	Los Angeles Department of Water & Power	CA	1,452,907	52	Naperville Department of Public Utilities	IL	60,958
3	Long Island Power Authority	NY	1,142,521	53	Independence Power & Light	MO	59,709
4	Salt River Project	AZ	1,080,214	54	Sevier County Electric System	TN	58,528
5	CPS Energy	TX	871,718	55	Silicon Valley Power	CA	58,395
6	Sacramento Municipal Utility District	CA	638,769	56	Denton Municipal Electric	TX	57,197
7	Austin Energy	TX	510,430	57	Rochester Public Utilities	MN	57,120
8	JEA	FL	487,412	58	Virgin Islands Water & Power Authority	VI	56,133
9	Seattle City Light	WA	477,577	59	Benton PUD	WA	55,342
10	Memphis Light, Gas and Water Division	TN	419,568	60	Ocala Utility Services, City of	FL	54,666
11	Nashville Electric Service	TN	415,840	61	Burbank Water and Power	CA	53,030
12	Omaha Public Power District	NE	390,321	62	Grant County, Public Utility District No. 2 of	WA	52,228
13	Snohomish County, Public Utility District No. 1 of	WA	361,114	63	Brownsville Public Utilities Board	TX	52,148
14	Orlando Utilities Commission	FL	253,449	64	Cowlitz County, Public Utility District No. 1 of	WA	52,083
15	Colorado Springs Utilities	CO	239,446	65	Guam Power Authority	WA	51,938
16	Clark Public Utilities	WA	216,390	66	Columbia Water & Light	MO	51,307
17	Knoxville Utilities Board	TN	207,466	67	Riviera Utilities	AL	51,168
18	Santee Cooper (South Carolina Public Service Authority)	SC	191,785	68	Florence Utilities	AL	50,466
19	Huntsville Utilities	AL	190,013	69	Athens, City of	AL	50,301
20	EPB - Chattanooga Electric Power Board	TN	189,559	70	Danville Department of Utilities	VA	48,028
21	Tacoma Public Utilities	WA	182,526	71	Chelan County Public Utility District No. 1	WA	47,737
22	IID Energy	CA	157,889	72	New Braunfels Utilities	TX	46,924
23	Lincoln Electric System	NE	143,788	73	Farmington, City of	NM	44,713
24	Lakeland Electric	FL	134,243	74	Redding, City of	CA	44,305
25	Modesto Irrigation District	CA	129,911	75	College Station, City of	TX	43,920
26	Anaheim Public Utilities	CA	121,102	76	Grays Harbor County, Public Utility District No. 1 of	WA	43,562
27	Tallahassee Electric Utility, City of	FL	120,929	77	Marietta Board of Lights & Water	GA	42,076
28	Springfield, City Utilities of	MO	117,302	78	Longmont Power & Communications	CO	42,047
29	Riverside Public Utilities, City of	CA	111,157	79	Edmond, City of	OK	41,932
30	Lubbock Power & Light	TX	107,447	80	High Point, City of	NC	41,905
31	Turlock Irrigation District	CA	103,980	81	Navajo Tribal Utility Authority	AZ	41,801
32	Gainesville Regional Utilities	FL	99,665	82	Central Lincoln People's Utility District	OR	40,267
33	Lansing Board of Water & Light	MI	99,274	83	Rock Hill, City of	SC	39,933
34	Eugene Water & Electric Board	OR	95,604	84	North Little Rock, City of	AR	39,164
35	Nebraska Public Power District	NE	92,269	85	Greenville Light & Power System	TN	38,705
36	Glendale Water & Power	CA	90,030	86	Jonesboro City Water & Light	AR	38,452
37	Fayetteville Public Works Commission	NC	83,906	87	Taunton Municipal Lighting Plant	MA	38,393
38	BrightRidge	TN	79,764	88	Loveland Water & Power	CO	38,282
39	Kissimmee Utility Authority	FL	79,761	89	Provo City Power	UT	37,788
40	Fort Collins Utilities	CO	76,821	90	Albany Water, Gas & Light Commission	GA	37,083
41	Cleveland Public Power	OH	74,400	91	Jackson Energy Authority	TN	36,482
42	CDE Lightband	TN	73,620	92	Dickson Electric System	TN	36,325
43	Garland, City of	TX	72,295	93	Alameda Municipal Power	CA	36,296
44	Springfield City Water, Light & Power	IL	71,448	94	Beaches Energy Services	FL	35,747
45	Greenville Utilities Commission	NC	69,981	95	Wilson Energy	NC	35,218
46	Lafayette Utilities System	LA	69,366	96	Mason County Public Utility District No. 3	WA	34,640
47	Lenoir City Utilities Board	TN	69,105	97	Greer Commission of Public Works	SC	33,975
48	Kansas City Board of Public Utilities	KS	66,249	98	Bristol Tennessee Essential Services	TN	33,843
49	Pasadena Water and Power Department	CA	64,949	99	Anderson Municipal Light & Power	IN	33,413
50	Roseville Electric	CA	63,507	100	Lewis County, Public Utility District No. 1 of	WA	33,208

INDUSTRY STATISTICS

100 Largest Public Power Utilities by Megawatt-hour Sales, 2020

Sales to ultimate customers and sales for resale

1	Salt River Project	AZ	40,128,485	51	California Department of Water Resources	CA	3,538,804
2	New York Power Authority	NY	38,520,437	52	Utah Associated Municipal Power Systems	UT	3,493,557
3	CPS Energy	TX	27,278,250	53	Lakeland Electric	FL	3,302,016
4	Santee Cooper (South Carolina Public Service Authority)	SC	22,233,173	54	Turlock Irrigation District	CA	3,267,656
5	Los Angeles Department of Water & Power	CA	21,454,648	55	Michigan Public Power Agency	MI	3,244,738
6	Nebraska Public Power District	NE	18,904,111	56	Southern Minnesota Municipal Power Agency	MN	3,114,445
7	Long Island Power Authority	NY	18,080,399	57	Alabama Municipal Electric Authority	AL	3,073,186
8	Omaha Public Power District	NE	16,039,415	58	Minnesota Municipal Power Agency	MN	3,068,783
9	Puerto Rico Electric Power Authority	PR	16,035,294	59	Massachusetts Municipal Wholesale Electric Co.	MA	2,974,018
10	Lower Colorado River Authority	TX	14,207,415	60	Missouri River Energy Services	SD	2,925,955
11	Austin Energy	TX	13,874,143	61	Northern California Power Agency	CA	2,794,629
12	American Municipal Power	OH	13,758,688	62	Oklahoma Municipal Power Authority	OK	2,773,810
13	Chelan County Public Utility District No. 1	WA	12,791,707	63	Tallahassee Electric Utility, City of	FL	2,718,100
14	Memphis Light, Gas and Water Division	TN	12,774,178	64	Lafayette Utilities System	LA	2,653,869
15	Sacramento Municipal Utility District	CA	12,627,663	65	Lubbock Power & Light	TX	2,634,442
16	JEA	FL	12,083,275	66	Anaheim Public Utilities	CA	2,609,487
17	Southern California Public Power Authority	CA	12,060,757	67	Kansas City Board of Public Utilities	KS	2,547,278
18	MEAG Power	GA	11,619,818	68	Piedmont Municipal Power Agency	SC	2,486,703
19	Seattle City Light	WA	11,326,669	69	Springfield City Water, Light & Power	IL	2,246,155
20	Nashville Electric Service	TN	11,212,987	70	Benton PUD	WA	2,245,233
21	Grant County, Public Utility District No. 2 of	WA	10,310,741	71	Vinton Public Power Authority	LA	2,221,667
22	Energy Northwest	WA	9,786,170	72	Lansing Board of Water & Light	MI	2,173,231
23	Snohomish County, Public Utility District No. 1 of	WA	8,507,349	73	Riverside Public Utilities, City of	CA	2,145,954
24	Florida Municipal Power Agency	FL	8,191,848	74	Bryan Texas Utilities	TX	2,112,169
25	Grand River Dam Authority	OK	8,118,985	75	Sikeston Board of Municipal Utilities	MO	2,015,126
26	Orlando Utilities Commission	FL	7,907,849	76	Gainesville Regional Utilities	FL	2,005,510
27	North Carolina Municipal Power Agency No. 1	NC	7,287,107	77	Fayetteville Public Works Commission	NC	1,919,362
28	North Carolina Eastern Municipal Power Agency	NC	7,194,185	78	Dalton Utilities	GA	1,889,253
29	Tacoma Public Utilities	WA	6,936,764	79	Brownsville Public Utilities Board	TX	1,842,374
30	Intermountain Power Agency	UT	6,761,939	80	NMPP Energy: Municipal Energy Agency of Nebraska	NE	1,818,061
31	Indiana Municipal Power Agency	IN	6,431,253	81	BrightRidge	TN	1,752,930
32	WPPI Energy	WI	5,850,244	82	New Braunfels Utilities	TX	1,709,615
33	Colorado Springs Utilities	CO	5,402,206	83	Kansas Municipal Energy Agency	KS	1,685,249
34	EPB - Chattanooga Electric Power Board	TN	5,370,566	84	Greenville Utilities Commission	NC	1,685,002
35	Knoxville Utilities Board	TN	5,340,239	85	Louisiana Energy and Power Authority	LA	1,670,981
36	Clark Public Utilities	WA	5,200,604	86	Kissimmee Utility Authority	FL	1,627,518
37	Huntsville Utilities	AL	4,920,917	87	Lenoir City Utilities Board	TN	1,605,140
38	Missouri Joint Municipal Electric Utility Comm	MO	4,888,568	88	Utah Municipal Power Agency	UT	1,602,086
39	Platte River Power Authority	CO	4,572,632	89	Jackson Energy Authority	TN	1,601,025
40	Sam Rayburn Municipal Power Agency	TX	4,563,274	90	Grays Harbor County, Public Utility District No. 1 of	WA	1,564,835
41	Douglas County, Public Utility District No. 1 of	WA	4,351,092	91	Cleveland Public Power	OH	1,528,964
42	Cowlitz County, Public Utility District No. 1 of	WA	4,343,568	92	Guam Power Authority	GU	1,523,398
43	Eugene Water & Electric Board	OR	4,093,556	93	Burbank Water and Power	CA	1,498,868
44	Lincoln Electric System	NE	4,064,452	94	CDE Lightband	TN	1,495,990
45	Springfield, City Utilities of	MO	3,877,442	95	Glendale Water & Power	CA	1,474,901
46	Silicon Valley Power	CA	3,741,014	96	Denton Municipal Electric	TX	1,469,155
47	Garland, City of	TX	3,717,383	97	Fort Collins Utilities	CO	1,457,336
48	Illinois Municipal Electric Agency	IL	3,713,633	98	Sevier County Electric System	TN	1,428,180
49	IID Energy	CA	3,601,116	99	Muscatine Power & Water	IA	1,427,775
50	Modesto Irrigation District	CA	3,544,158	100	Virginia Municipal Electric Association No. 1	VA	1,413,682

DATA BY STATE

Utility Sector Rate Comparison by State, 2020

In cents per kilowatt-hour. Table reflects full-service (bundled) sales only.

	Residential			Commercial			Industrial			Total		
	Public	Private	Co-op	Public	Private	Co-op	Public	Private	Co-op	Public	Private	Co-op
Alabama	10.4	13.5	12.2	10.4	12.2	11.5	5.9	6.4	6.6	9.5	10.3	11.1
Alaska	17.4	14.9	23.7	15.3	16.0	20.6	9.5	11.5	16.0	15.6	14.6	20.6
Arizona	11.5	12.9	12.6	9.1	11.0	10.5	5.7	6.4	7.9	9.7	11.0	11.5
Arkansas	8.7	10.8	10.5	8.2	8.4	9.7	6.0	6.0	5.4	7.6	8.4	8.4
California	17.7	20.9	10.0	16.7	18.3	10.3	12.5	18.3	8.8	16.2	19.4	9.3
Colorado	11.6	11.8	13.5	8.9	10.1	11.4	7.3	6.7	8.5	9.3	9.9	11.2
Connecticut	15.8	22.3		13.5	16.0		8.9	12.4		12.5	20.6	
Delaware	13.4	12.3	12.2	12.1	11.6	11.5	9.2	5.9		11.0	12.1	12.0
District of Columbia		11.8			12.4						12.0	
Florida	11.1	11.2	11.7	9.4	8.6	10.1	7.3	6.9	7.9	9.9	10.0	11.0
Georgia	11.6	12.4	11.6	10.7	9.6	11.2	5.3	5.4	7.3	9.1	9.4	11.0
Hawaii		30.5	33.7		28.9	34.1		24.2	30.4		27.6	32.7
Idaho	7.8	10.1	9.9	6.8	7.8	8.0	5.2	6.3	5.3	7.1	8.0	8.3
Illinois	12.6	12.4	13.9	12.2	9.6	11.9	9.3	5.6	10.1	11.7	11.3	12.7
Indiana	10.8	12.8	13.3	10.3	11.3	11.2	8.2	6.9	6.7	9.4	9.7	10.8
Iowa	11.0	12.7	12.0	8.1	10.2	9.4	6.3	6.2	7.7	8.1	8.7	9.9
Kansas	12.3	12.7	12.9	10.3	10.1	11.0	6.2	7.5	7.5	8.5	10.5	9.9
Kentucky	11.6	10.8	10.8	10.6	10.3	10.6	8.1	6.6	4.2	10.1	9.4	7.7
Louisiana	8.6	9.8	9.5	7.9	8.8	10.1	4.8	4.8	6.9	6.8	7.3	9.1
Maine	13.2	16.5	17.3	12.1	13.5	15.5	10.7	11.5	13.2	12.3	15.6	16.3
Maryland	8.7	12.7	12.2	9.2	11.6	10.9	6.8	10.2	9.1	8.7	12.5	11.7
Massachusetts	13.8	23.3		13.9	15.6		12.6	19.0		13.5	21.1	
Michigan	14.5	16.5	14.8	12.1	12.1	12.6	9.1	7.4	8.6	11.8	12.8	13.2
Minnesota	12.9	13.3	13.2	10.8	10.3	10.4	8.4	7.4	8.6	10.3	10.1	11.9
Mississippi	10.6	10.6	11.7	10.2	9.7	11.6	5.8	6.3	7.4	9.5	8.9	10.8
Missouri	11.0	11.1	11.2	9.3	8.7	10.4	7.9	6.7	6.1	9.6	9.4	10.1
Montana		12.1	10.4		11.6	8.5		8.0	7.6		11.4	9.4
Nebraska	10.6		13.0	8.7		11.6	6.6		11.8	8.6		11.9
Nevada	10.4	11.3	12.0	6.3	8.4	9.6	3.5	6.3	5.6	6.1	9.1	7.8
New Hampshire		18.4	19.8		15.3	18.6		11.5	14.0		17.5	19.3
New Jersey	16.7	15.9		16.5	12.8		12.2	7.1		15.2	14.6	
New Mexico	11.7	12.6	14.2	10.5	10.0	12.0	6.1	4.8	7.3	8.8	9.1	10.1
New York	20.0	17.5		18.2	15.9		4.4	6.0		18.5	16.7	
North Carolina	11.7	10.9	12.6	10.5	8.2	10.6	7.2	6.1	6.8	10.2	8.8	11.7
North Dakota		10.2	10.5		8.8	9.7		7.1	7.3		9.1	10.1
Ohio	13.0	11.8	13.7	12.6	10.9	12.5	9.5	7.4	8.8	11.4	11.4	12.0
Oklahoma	11.5	9.4	11.4	9.7	6.9	11.1	4.6	4.1	6.2	6.7	6.9	9.9
Oregon	9.6	11.7	10.0	8.4	9.4	8.4	5.4	6.9	4.6	7.5	10.0	6.8
Pennsylvania	9.9	12.8	13.3	9.4	10.1	11.1	7.6	6.7	6.9	9.0	12.1	11.7
Rhode Island	18.4	21.8		32.6	15.5		14.0	19.4		19.6	20.1	
South Carolina	11.8	12.5	13.4	10.3	10.0	11.9	5.3	6.0	6.5	8.6	9.6	11.3
South Dakota	10.1	11.9	11.9	9.1	10.1	10.9	7.8	7.3	8.1	8.9	10.2	10.3
Tennessee	10.8	9.8	10.8	10.5	10.6	11.1	5.8	7.3	5.8	9.8	9.0	10.2
Texas	10.7	10.4	10.5	9.1	7.9	9.0	6.6	4.5	6.9	9.5	7.2	9.3
Utah	10.0	10.7	8.3	9.1	8.1	7.7	6.2	5.7	8.1	8.9	8.1	8.1
Vermont	15.7	20.0	20.4	14.5	16.7	16.1	11.3	10.9	11.4	14.2	16.4	17.6
Virginia	11.9	11.9	12.4	9.2	7.5	10.5	7.7	6.3	6.5	10.1	9.1	10.0
Washington	9.5	10.4	9.4	8.4	10.0	8.2	5.3	7.8	6.7	7.9	10.0	8.5
West Virginia		11.8			9.4			6.1			8.7	
Wisconsin	11.2	14.6	14.3	9.7	10.8	11.3	7.1	7.2	7.9	9.1	10.9	12.2
Wyoming	11.3	11.6	9.3	8.7	9.9	8.9		6.5	7.7	9.9	7.8	8.4

Source: Department of Energy, Energy Information Administration, Form EIA-861, 2020.

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

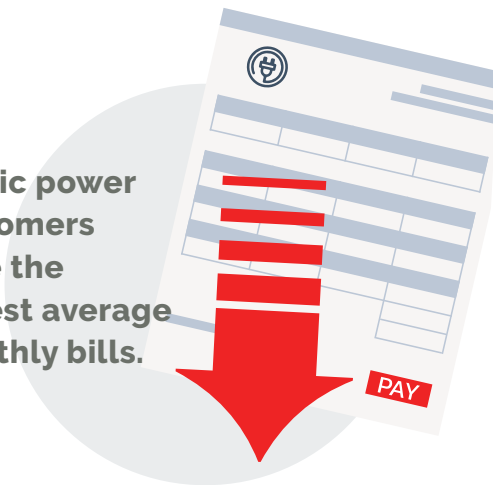
PUBLIC POWER CUSTOMERS PAY LESS

Public power utilities have a long history of offering low prices for electricity to customers. Over the past decade, we have seen the difference between public power, cooperative, and investor-owned utility residential rates shrink – but the data on rates only tell one part of the affordability story.

Public power utilities had average residential rates that were 12% lower than those for investor-owned utilities (IOUs) in 2020, but were about 3% higher than the average residential rates for rural electric cooperative utilities. This comparative data may be skewed by changes in Energy Information Administration reporting requirements, which increased the threshold to complete the shorter Form EIA-861S from 100,000 megawatt-hours to 200,000 MWh in sales. Utilities who complete form EIA-861S do not need to provide sales and revenue by customer class. Nearly three-quarters of public power utilities now report annual data using this shorter form, while about one-quarter of electric cooperatives report on the shorter form. Based on historical data, public power utilities who report annual data on the short form tend to have lower residential rates than those who report on the longer form, while cooperatives who report on the short form tend to have higher rates than those who report on the long form. Therefore, the gap between cooperatives and public power utilities may be slightly exaggerated by these new reporting requirements.

Though average residential rates for public power utilities are slightly higher than for cooperatives, average monthly bills are lower. Public power residential customers use less electricity on average than cooperative customers, and slightly more than IOU customers. Therefore, average bills are approximately 16% lower for public power residential customers than for cooperative residential customers.

Public power customers have the lowest average monthly bills.



There are a few reasons why residential customers of public power utilities use less electricity than those of rural electric cooperatives. Public power utilities emphasize energy efficiency more

than cooperatives, according to EIA data. On the flip side, cooperative customers often have more electrified end uses, in part because they live in more remote areas of the country.

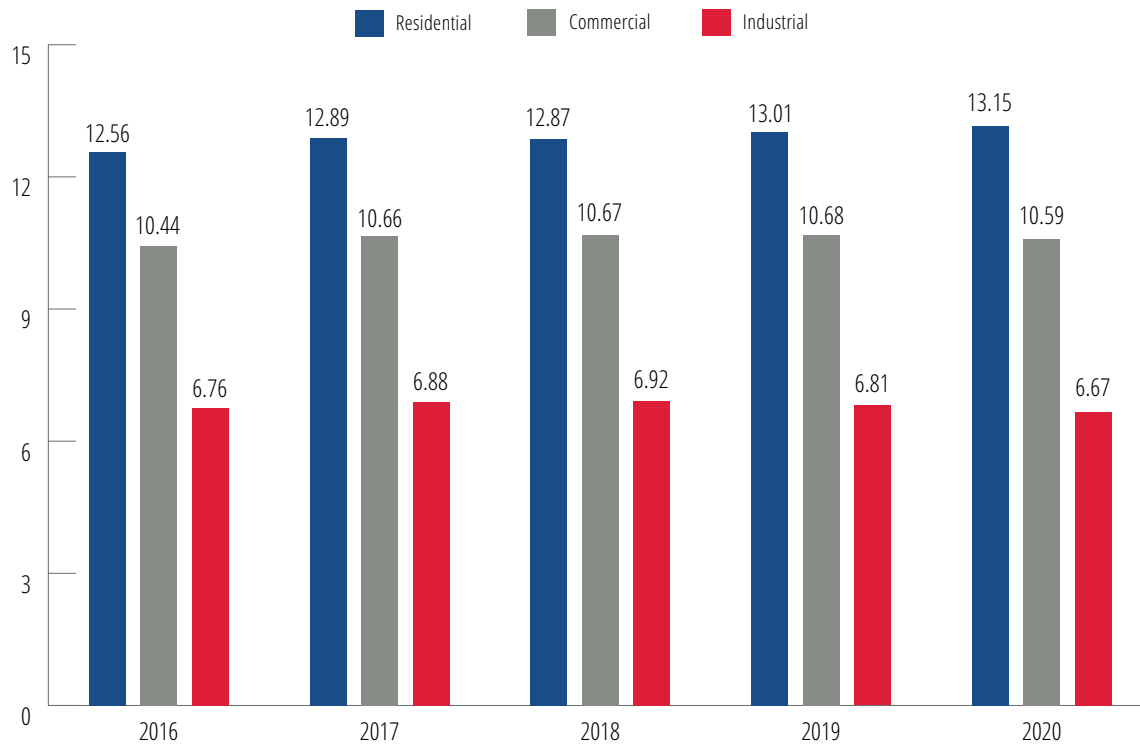
As more public power utilities promote electrification, this average usage could change, again shifting our relative cost. Overall, public power can continue to help our customers save by guiding them on how they can use energy more efficiently and get the best value from their utility.

	Investor-Owned Utility	Cooperative	Public Power
Average residential rate per kilowatt-hour	\$0.1370	\$0.1182	\$0.1217
Average kWh/month	855	1,121	920
Average monthly customer bill (extrapolated)	\$117	\$133	\$112

SALES AND REVENUE

Average Retail Rates by Customer Class

Revenue per Kilowatt-hour, in cents



Electric Revenues from Sales to Ultimate Customers

(in millions of dollars)

	Full-Service Sales	Energy-Only Sales	Delivery-Only Sales	Total	% of Total
Publicly Owned Utilities	\$58,324	\$867	\$38	\$59,229	14.7%
Investor-Owned Utilities	\$210,521	\$2	\$28,618	\$239,141	59.2%
Cooperatives	\$47,206	\$71	\$16	\$47,293	11.7%
Federal Power Agencies	\$932	\$0	\$0	\$932	0.2%
Behind the Meter	\$1,362	\$0	\$0	\$1,362	0.3%
Community Choice Aggregators	\$0	\$3,687	\$0	\$3,687	0.9%
Power Marketers	\$21,973	\$30,009	\$0	\$51,982	12.9%
TOTAL	\$340,317	\$34,636	\$28,672	\$403,626	

Energy-only revenue represents revenue from a utility's sales of energy outside of its own service territory. Delivery-only revenue represents revenue the utility receives from the delivery portion of unbundled (retail choice) sales made to customers in the utility's service territory. Total revenue shows the amount of revenue each sector receives from both bundled (full-service) and unbundled (retail choice) sales to ultimate customers.

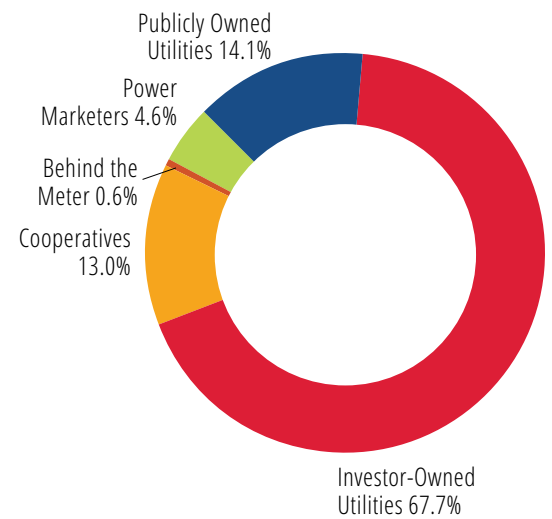
More than 99% of power marketers' full-service sales and revenues occur in Texas.

Source: Energy Information Administration Forms EIA-861 and 861S, 2020. Does not include U.S. territories.

INDUSTRY STATISTICS

Number of Customers by Type

	Full-Service Customers	Delivery-Only Customers	Total	% of Total
Investor-Owned Utilities	93,402,133	15,533,715	108,935,848	67.7%
Publicly Owned Utilities	22,750,768	411	22,751,179	14.1%
Cooperatives	20,853,728	6,902	20,860,630	13.0%
Power Marketers	7,439,569		7,439,569	4.6%
Federal Power Agencies	38,657		38,657	0.0%
Behind the Meter	947,572		947,572	0.6%
Total	145,432,427	15,541,028	160,973,455	



Delivery-only customers represent the number of customers in a utility's service territory that purchase energy from an alternative supplier.

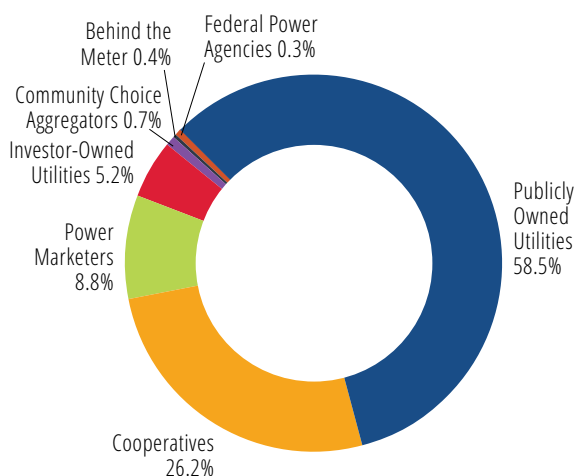
Nearly all of power marketers' full-service customers are in Texas.

Behind-the-meter entities install, own, and/or operate systems (usually solar PV), and sell, under a long term power purchase 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, 2020. Does not include U.S. territories.

Number of Providers by Type

		% of Total
Publicly Owned Utilities	2,002	58.5%
Cooperatives	896	26.2%
Power Marketers	300	8.8%
Investor-Owned Utilities	179	5.2%
Community Choice Aggregators	23	0.7%
Behind the Meter	12	0.4%
Federal Power Agencies	10	0.3%
Total	3,422	



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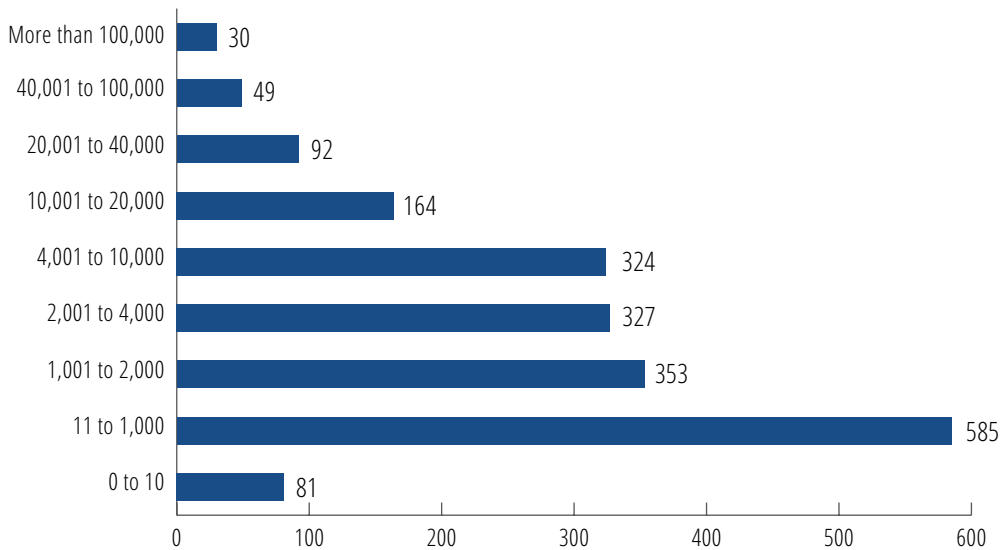
- Federal Regulation and Compliance
- Power Purchase Transactions
- Regional Wholesale Markets
- Energy Resource Acquisition Strategies
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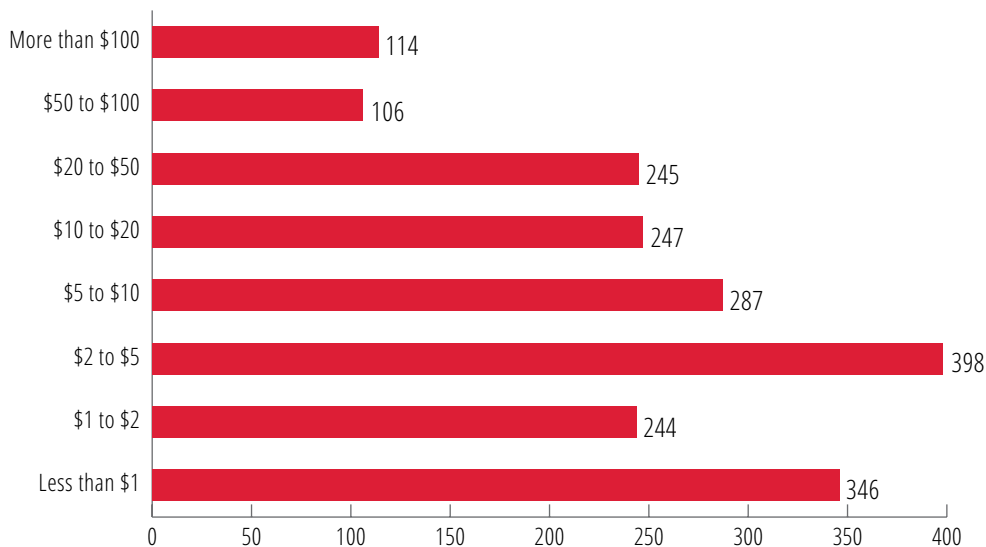
INDUSTRY STATISTICS

Distribution of Public Power Utilities by Customer Count



The median public power utility serves about **2,000 customers** and generates **\$5 million** in annual revenue.

Distribution of Public Power Utilities by Revenue Class



WHERE TO FIND MORE DATA

There are many resources for energy and electric industry data. Below is a rundown of some of the most comprehensive sources of energy-related statistics that we commonly use when compiling reports, fact sheets, and other content – including for this report.

A primary source for data is the **Energy Information Administration**. www.eia.gov

- 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.
- Other key surveys include Form EIA-860 on generating capacity, Form EIA-923 on generation, and Form EIA-930 on balancing authorities.
- Annual and monthly reports, including long- and short-term energy outlooks, summarize some of these projections.

The **Federal Energy Regulatory Commission** collects data related to wholesale power markets. www.ferc.gov/docs-filing/forms.asp

- FERC Form 1 collects financial data on all investor-owned utilities, including operations and maintenance costs, salaries of major employees, and other financial information.
- The Electric Quarterly Report details cost-based sales, market-based rates, and other transactional information for large wholesale electricity sellers.
- The Census Bureau provides detailed data and trend reports on communities in the U.S. Utilities can find information on their service area by searching by city or zip code. www.census.gov

The **National Laboratories** provide information on energy trends and different aspects of incorporating and testing new energy technologies.

- Lawrence Berkeley National Laboratory produces reports on its energy research. www.lbl.gov
- The National Renewable Energy Laboratory's Utility Rate Database (https://openei.org/wiki/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/System_Advisor_Model_\(SAM\)](https://openei.org/wiki/System_Advisor_Model_(SAM))
- Lawrence Livermore National Laboratory produces flow charts on energy use and carbon dioxide emissions. <https://flowcharts.llnl.gov/>

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 of state policies and incentives related to energy efficiency, net metering, and renewable energy. www.dsireusa.org

The **Electric Power Research Institute** publishes technical results of R&D projects in the areas of power delivery and utilization, energy innovation, and generation. www.EPRI.com

The **Rocky Mountain Institute** offers reports on decarbonization and transportation electrification, among other topics. www.rmi.org

If you have any questions about where to go for industry data, what information is publicly available, and how you can use this data, don't hesitate to reach out to us at Statistics@PublicPower.org.

PUBLIC POWER DATA BY STATE & TERRITORY, 2020

	Ultimate Customers	Sales to Ultimate Customers (MWh)	Revenue from Sales to Ultimate Customers (thousands of dollars)	Generation (MWh)
Alabama	575,330	16,118,872	1,531,629.1	37,331
Alaska	59,980	1,286,329	223,378.8	977,074
American Samoa	12,176	150,481	47,672.0	173,583
Arizona	1,190,177	33,890,029	3,270,709.4	31,473,955
Arkansas	204,800	5,859,455	456,011.2	1,082,410
California	3,333,090	59,731,564	9,616,881.2	57,529,089
Colorado	475,424	8,945,488	864,991.5	7,114,835
Connecticut	75,631	1,778,252	226,748.3	9,245
Delaware	72,466	1,984,723	220,435.8	27,178
Florida	1,508,841	36,001,331	3,591,710.6	32,871,326
Georgia	350,664	12,141,933	1,167,260.7	11,669,844
Guam	51,938	1,523,398	333,567.1	1,621,132
Idaho	48,522	1,149,584	81,949.7	230,040
Illinois	276,283	6,376,774	759,498.5	4,281,007
Indiana	263,292	7,431,921	723,996.2	3,474,760
Iowa	219,732	5,308,494	487,413.3	954,637
Kansas	239,519	6,917,188	653,641.4	1,402,981
Kentucky	212,680	5,747,541	580,382.6	418,100
Louisiana	172,209	6,557,004	478,900.9	1,222,989
Maine	16,918	309,303	28,711.6	-
Maryland	34,869	672,064	59,714.5	(878)
Massachusetts	418,897	7,244,602	1,015,879.2	1,995,327
Michigan	313,359	7,054,255	818,587.1	3,726,119
Minnesota	391,192	9,428,472	993,241.3	3,577,163
Mississippi	136,450	3,586,035	344,668.2	-
Missouri	442,005	10,269,181	1,020,027.9	6,923,413
Montana	1,045	16,029	1,150.0	-
Nebraska	1,058,333	30,222,097	2,697,900.3	27,801,217
Nevada	33,240	2,265,274	95,484.6	-
New Hampshire	12,475	178,514	25,690.0	-
New Jersey	64,307	1,141,609	178,079.1	116,588
New Mexico	86,574	1,937,245	183,809.6	986,032
New York	1,310,262	39,654,599	4,757,541.3	33,419,242
North Carolina	634,072	15,530,689	1,607,229.7	7,094,718
North Dakota	11,575	312,466	24,723.0	-
Northern Marianas	15,541	208,299	51,439.0	252,882
Ohio	385,746	9,568,988	1,085,000.3	8,254,350
Oklahoma	207,298	7,069,604	547,758.8	8,683,391
Oregon	310,745	9,609,087	704,424.3	398,000
Pennsylvania	87,926	1,401,554	177,957.0	5,357
Puerto Rico	1,477,167	16,035,294	3,233,432.0	11,324,336
Rhode Island	6,862	67,540	13,267.0	-
South Carolina	388,042	11,715,577	1,044,876.3	19,319,957
South Dakota	62,117	1,546,537	145,099.6	-
Tennessee	2,296,674	62,583,753	6,138,363.0	-
Texas	2,097,047	52,851,698	5,069,962.1	47,194,962
Utah	272,410	5,298,602	478,325.9	8,789,950
Vermont	57,564	730,708	109,803.2	183,729
Virgin Islands	56,133	588,026	223,207.0	643,646
Virginia	169,403	3,980,975	411,671.9	62,972
Washington	1,831,905	47,662,472	3,769,189.7	44,304,232
West Virginia	3,515	61,900	7,183.0	-
Wisconsin	296,904	7,357,688	674,289.7	1,553,122
Wyoming	36,937	637,899	68,812.0	498,653
Total	24,368,263	587,698,996	63,123,278	393,679,996

Source: Energy Information Administration Form EIA-861 and 861S, 2020 data. Customer, sales, and revenue data reflect full-service and delivery-only sales.

Number of Public Power Utilities, 2020

Alabama	37
Alaska	35
American Samoa	1
Arizona	29
Arkansas	15
California	56
Colorado	30
Connecticut	9
Delaware	9
Florida	33
Georgia	53
Guam	1
Idaho	11
Illinois	42
Indiana	73
Iowa	137
Kansas	118
Kentucky	29
Louisiana	24
Maine	5
Maryland	5
Massachusetts	42
Michigan	42
Minnesota	129
Mississippi	24
Missouri	87
Montana	1
Nebraska	148
Nevada	8
New Hampshire	5
New Jersey	9
New Mexico	7
New York	51
North Carolina	74
North Dakota	12
Northern Mariana Islands	1
Ohio	86
Oklahoma	63
Oregon	18
Pennsylvania	35
Puerto Rico	1
Rhode Island	1
South Carolina	23
South Dakota	36
Tennessee	60
Texas	76
Utah	42
Vermont	15
Virgin Islands	1
Virginia	17
Washington	42
West Virginia	2
Wisconsin	83
Wyoming	14
Total	2,007

(Source: Department of Energy, Energy Information Administration, Forms EIA-861 and 861S, 2020. Includes U.S. Territories.)



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