

2023

PUBLIC POWER STATISTICAL REPORT

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TELLING PUBLIC POWER'S STORY THROUGH DATA

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 threshold is twice the previous requirement of 100,000 MWh in sales, and means that about

75% of public power utilities complete the shorter form. While there is still valuable data about public power, details related to specific customer classes – including rates, number of customers served, and sales – are more limited.

This change primarily affects two key parts of this report:

1. Details on rates by customer class, such as in the rate comparison by state table on page 9, 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) 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.

Our Product Store also links to other statistical reports available to members, including our report on salaries and hourly pay in public power utilities, the report on financial and operating ratios of public power utilities, and subscriptions to the eReliability Tracker service, which allows 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.

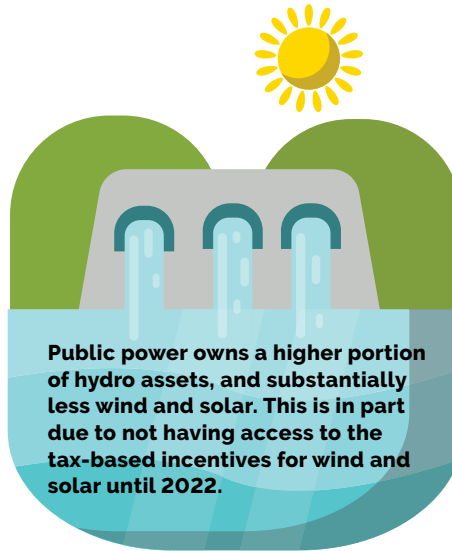
GENERATION

U.S. Electric Generating Capacity by Fuel Type, 2021

All Utility/Owner Types

Nameplate capacity, in megawatts

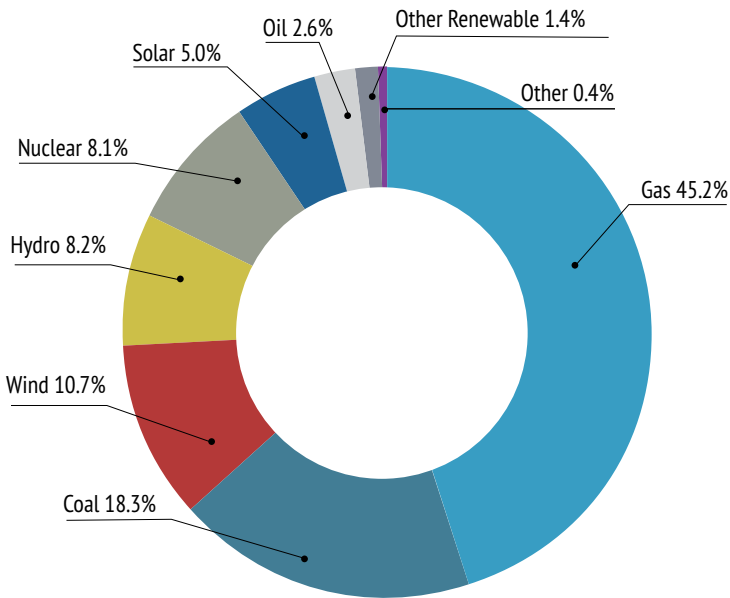
Fuel Type	MW	Percent of Total
Gas	561,457	45.2%
Coal	226,984	18.3%
Wind	133,460	10.7%
Hydro	101,990	8.2%
Nuclear	99,960	8.1%
Solar	61,892	5.0%
Oil	32,387	2.6%
Other Renewable	17,982	1.4%
Other	5,468	0.4%



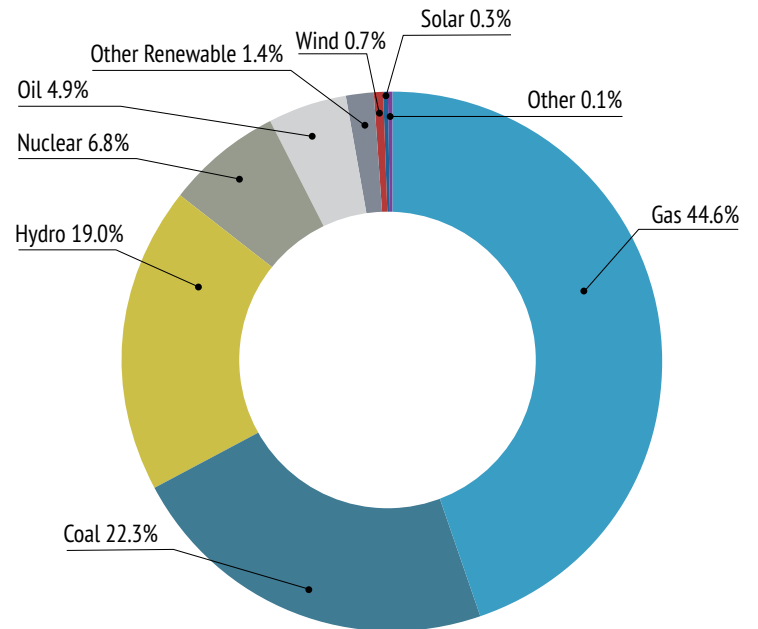
Public Power

Nameplate capacity in megawatts.
Data reflect joint ownership.

Fuel Type	MW	Percent of Total
Gas	52,794	44.6%
Coal	26,319	22.3%
Hydro	22,432	19.0%
Nuclear	8,027	6.8%
Oil	5,804	4.9%
Other Renewable	1,647	1.4%
Wind	800	0.7%
Solar	304	0.3%
Other	125	0.1%



Source: Energy Information Administration Form EIA-860



Source: Energy Information Administration Form EIA-860

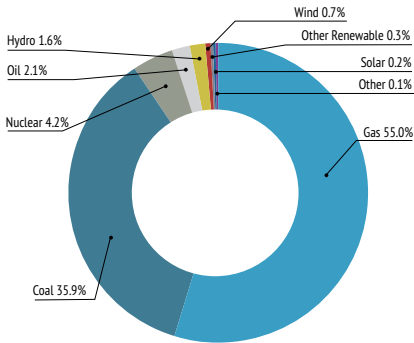
GENERATION

U.S. Electric Generating Capacity by Utility Type and Fuel Type, 2021

Nameplate capacity in megawatts. Data reflect joint ownership.

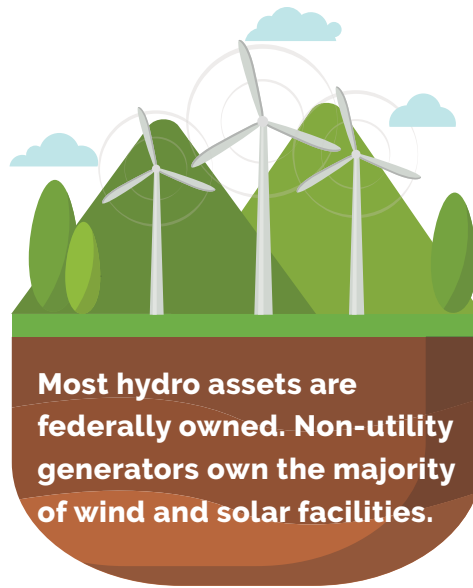
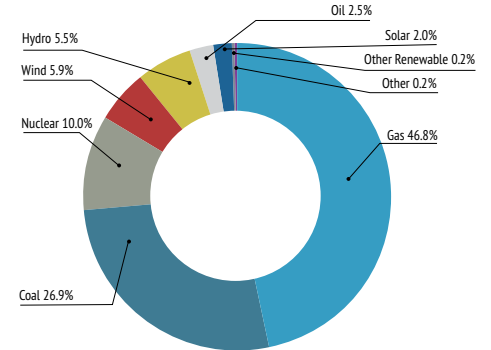
Cooperative

Fuel Type	MW	Percent of Total
Gas	35,824	55.0%
Coal	23,374	35.9%
Nuclear	2,725	4.2%
Oil	1,365	2.1%
Hydro	1,062	1.6%
Wind	432	0.7%
Other Renewable	171	0.3%
Solar	108	0.2%
Other	72	0.1%



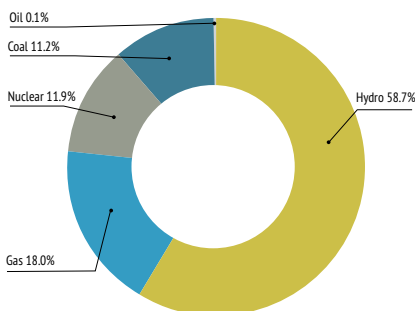
Investor-Owned

Fuel Type	MW	Percent of Total
Gas	205,552	46.8%
Coal	117,983	26.9%
Nuclear	44,016	10.0%
Wind	25,901	5.9%
Hydro	24,292	5.5%
Oil	10,977	2.5%
Solar	8,802	2.0%
Other Renewable	844	0.2%
Other	785	0.2%



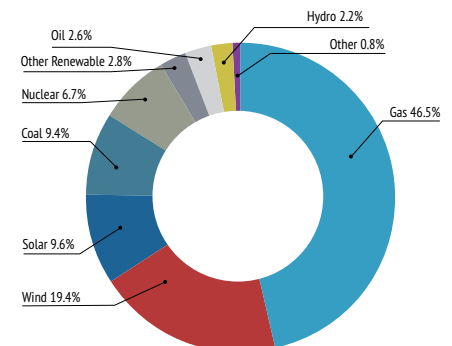
Federal

Fuel Type	MW	Percent of Total
Hydro	42,340	58.7%
Gas	13,015	18.0%
Nuclear	8,548	11.9%
Coal	8,105	11.2%
Oil	66	0.1%
Wind	25	0.0%
Other Renewable	25	0.0%
Solar	6	0.0%
Other	4	0.0%



Non-Utility Generators

Fuel Type	MW	Percent of Total
Gas	254,271	46.5%
Wind	106,302	19.4%
Solar	52,671	9.6%
Coal	51,203	9.4%
Nuclear	36,644	6.7%
Other Renewable	15,296	2.8%
Oil	14,175	2.6%
Hydro	11,864	2.2%
Other	4,483	0.8%



Source: Energy Information Administration Form EIA-860

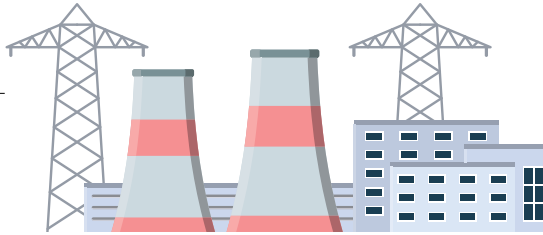
GENERATION

U.S. Electric Generation by Fuel Type, 2021

All Utility/Owner Types

Generation, in thousands of megawatt-hours

Fuel Type	Thousand MWh	Percent of Total
Gas	1,590,758	38.7%
Coal	897,885	21.9%
Nuclear	778,188	18.9%
Wind	378,197	9.2%
Hydro	246,473	6.0%
Solar	115,260	2.8%
Other Renewable	70,227	1.7%
Oil	19,176	0.5%
Other	12,140	0.3%

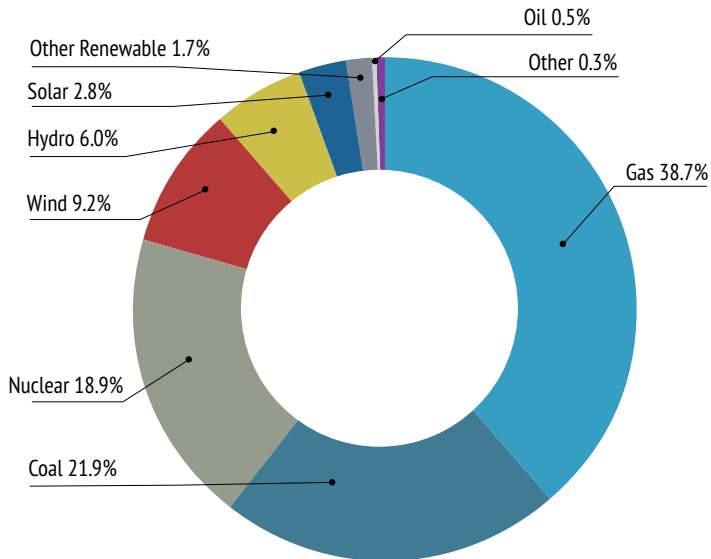


Actual generation differs from capacity based on how often resources can be available. Public power's generation does not include electricity purchased from other owner types.

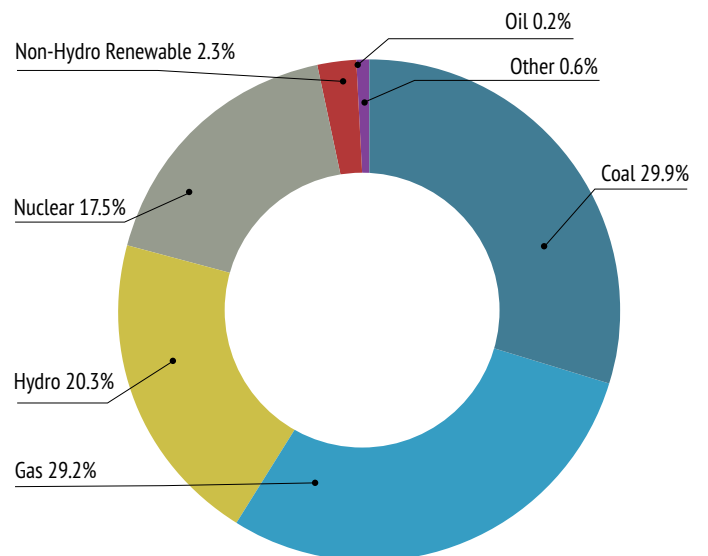
Public Power

Generation, in megawatt-hours

Fuel Type	MWh	Percent of Total
Coal	102,609,268	29.9%
Gas	99,960,049	29.2%
Hydro	69,663,599	20.3%
Nuclear	60,084,861	17.5%
Non-Hydro Renewable	7,798,314	2.3%
Oil	634,361	0.2%
Other	2,028,446	0.6%



Source: Energy Information Administration Form EIA-923

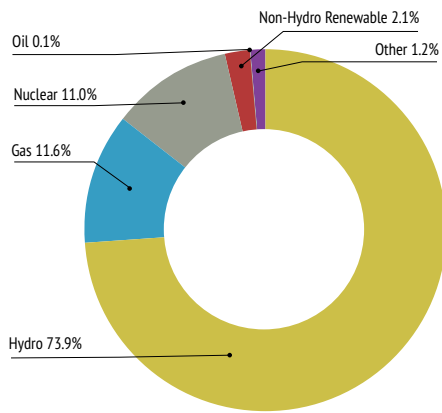


Source: Ventyx Velocity Suite, December 2022

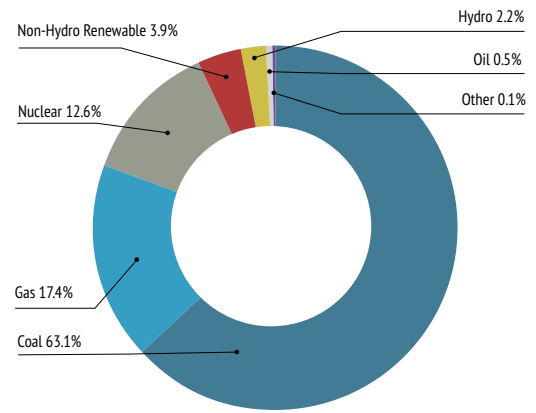
GENERATION

Generation by Public Power Utilities, 2021, by Region

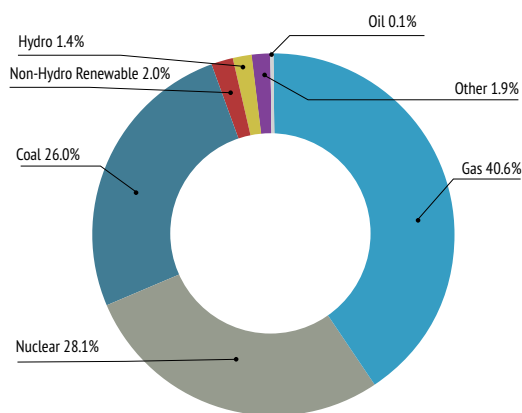
New England - Mid Atlantic



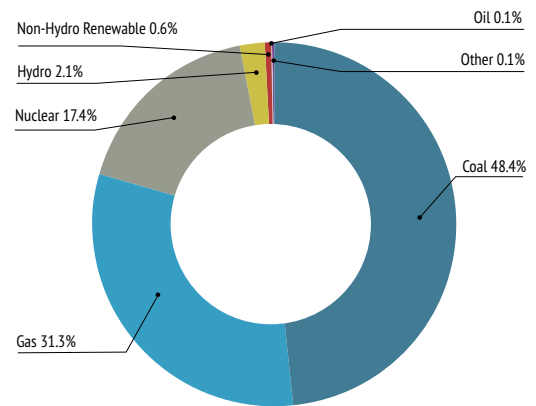
East North Central - West North Central



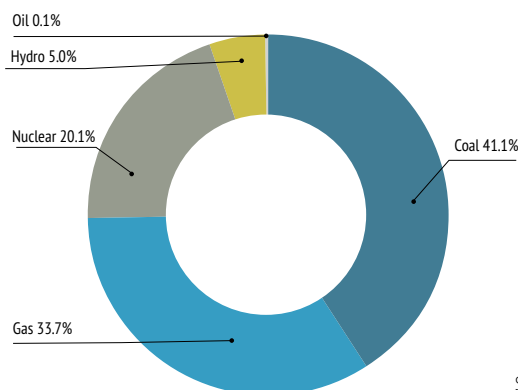
South Atlantic



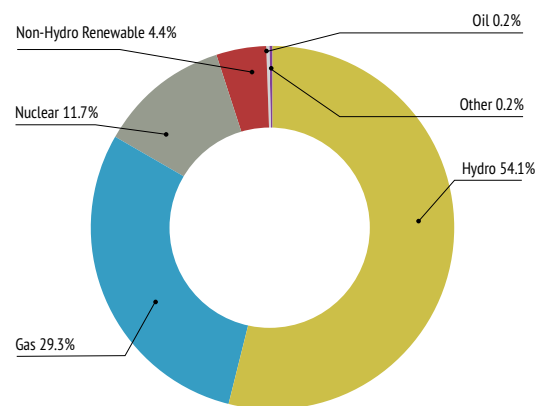
Mountain



East South Central - West South Central



Pacific



Source: Ventyx Velocity Suite, December 2022

GENERATION

2021 Generation by Public Power Utilities

In megawatt-hours

Census Region	Coal	Oil	Gas	Nuclear	Hydro	Non-Hydro Renewable	Other	Total
New England - Mid Atlantic	-	37,743	3,783,921	3,609,583	24,163,004	694,182	396,355	32,684,789
South Atlantic	18,655,108	89,614	29,172,196	20,200,276	981,810	1,408,523	1,359,907	71,867,434
East South Central - West South Central	23,924,952	33,547	19,634,338	11,678,802	2,889,533	23,957	-	58,185,129
East North Central - West North Central	34,414,296	270,921	9,506,575	6,880,622	1,222,935	2,143,631	75,978	54,514,957
Mountain	25,614,912	67,665	16,573,517	9,204,290	1,106,680	336,152	31,714	52,934,930
Pacific	-	134,870	21,289,502	8,511,288	39,299,637	3,191,869	164,492	72,591,658
Total	102,609,268	634,361	99,960,049	60,084,861	69,663,599	7,798,314	2,028,446	342,778,898

Source: Ventyx Velocity Suite, December 2022


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, and 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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GENERATION

Generation Capacity Additions by Fuel Type, 2015-2022

Fuel Type	Nameplate Capacity (MW)	Share
Natural Gas	80,072.02	34.10%
Wind	80,017.79	34.07%
Solar	69,823.04	29.73%
Nuclear	1,286.90	0.55%
Hydro	1,183.70	0.50%
Distillate Fuel Oil	595.05	0.25%
Wood/Wood Waste Solids	559.51	0.24%
Geothermal	479.90	0.20%
Landfill Gas	156.90	0.07%
Biomass Gases	144.50	0.06%
Waste	116.29	0.05%
Waste Heat	114.60	0.05%
Wood Waste Liquids	75.00	0.03%
Liquified Natural Gas	50.63	0.02%
Biomass Liquids	50.00	0.02%
Other	33.20	0.01%
Other Gas	23.95	0.01%
Coal	22.50	0.01%
Liquified Propane Gas	21.00	0.01%
Biomass Solids	8.70	0.00%
Biomass Other	6.34	0.00%
Jet Fuel	2.00	0.00%
Propane	1.80	0.00%
Total	234,845.31	

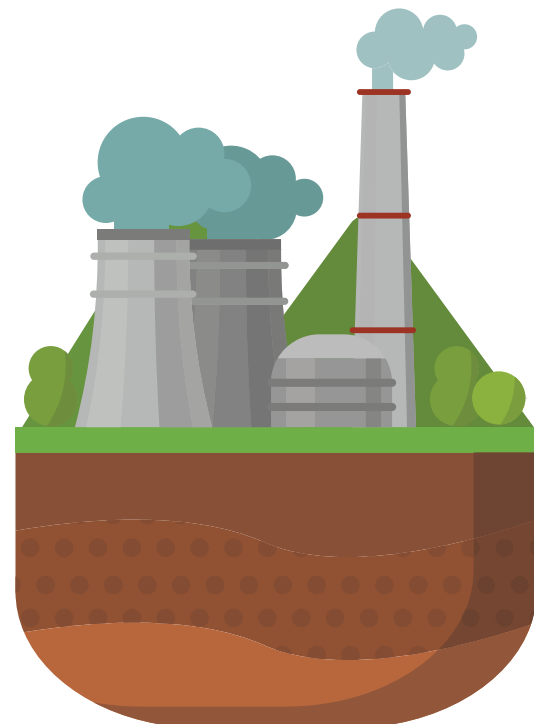
Proportion of Generation vs. Capacity, All Owner Types, 2021

Fuel type	Percent of Capacity	Percent of Generation	Difference
Gas	45.2%	38.7%	-6.5%
Coal	18.3%	21.9%	3.6%
Wind	10.7%	9.2%	-1.5%
Hydro	8.2%	6.0%	-2.2%
Nuclear	8.1%	18.9%	10.9%
Solar	5.0%	2.8%	-2.2%
Oil	2.6%	0.5%	-2.1%
Other Renewable	1.4%	1.7%	0.3%
Other	0.4%	0.3%	-0.1%

Proportion of Generation vs. Capacity, Public Power, 2021

Fuel type	Percent of Capacity	Percent of Generation	Difference
Gas	44.6%	29.2%	-15.5%
Coal	22.3%	29.9%	7.7%
Hydro	19.0%	20.3%	1.4%
Nuclear	6.8%	17.5%	10.7%
Oil	4.9%	0.2%	-4.7%
Non-Hydro Renewable	2.3%	2.3%	0.0%
Other	0.1%	0.6%	0.5%

Variable and flexible resources often have to build out surplus capacity to account for when they cannot or are not called on to operate.



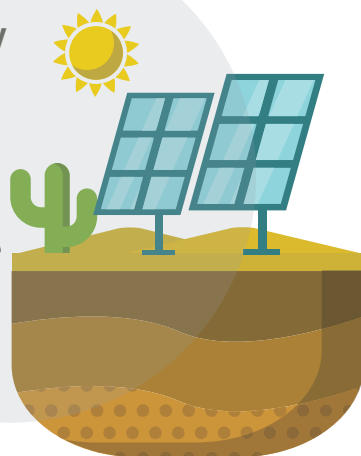
GENERATION

Renewable Capacity by Owner Type, 2021

Nameplate capacity in megawatts

Fuel Type	Cooperative		Federal		IOU		Public Power		Non-utility		Total
	MW	Percent	MW	Percent	MW	Percent	MW	Percent	MW	Percent	
Geothermal	3.7	0.1%		0.0%	108.7	2.8%	220.0	5.7%	3,557.0	91.5%	3,889.4
Sun	108.2	0.2%	6.3	0.0%	9,130.7	14.0%	304.1	0.5%	55,606.5	85.3%	65,155.8
Wind	431.6	0.3%	25.4	0.0%	25,976.9	18.6%	799.8	0.6%	112,406.4	80.5%	139,640.1
Biomass fuels	166.9	1.1%	24.8	0.2%	776.6	5.2%	1,526.5	10.3%	12,323.8	83.2%	14,818.6
Hydro	1,061.6	1.0%	42,339.8	41.5%	24,292.4	23.8%	22,431.9	22.0%	11,864.0	11.6%	101,989.6
Total	1,772.0	0.5%	42,396.3	13.0%	60,285.3	18.5%	25,282.3	7.8%	195,757.7	60.1%	325,493.5

Non-utility generators and investor-owned utilities have substantially higher wind and solar capacity than nonprofit owners due to tax-based incentives that made these developments more economical for for-profit enterprises.



Permitted Plants and Plants Under Construction, by Fuel Type

Fuel Type	Nameplate Capacity (MW)	Share
Solar	77,861.3	60.96%
Wind	24,062.2	18.84%
Natural Gas	19,904.1	15.58%
Hydro	2,908.4	2.28%
Nuclear	2,560.0	2.00%
Geothermal	217.0	0.17%
Biomass Solids	51.0	0.04%
Agriculture Byproduct	49.9	0.04%
Wood/Wood Waste Solids	28.8	0.02%
Waste Heat	28.6	0.02%
Biomass Gases	25.8	0.02%
Distillate Fuel Oil	9.9	0.01%
Landfill Gas	4.6	0.00%
Waste Oil and Other Oil	3.0	0.00%
Other	2.8	0.00%
Biomass Other	2.0	0.00%
Total	127,719.4	

Nearly 80% of capacity in the last stages of development is for solar and wind generating resources.

Generation from Renewable Energy by Fuel Type, 2021

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

Fuel Type	MWh	Percent
Wind	378,197	46.7%
Hydro	246,473	30.4%
Sun	115,260	14.2%
Biomass Fuels	54,252	6.7%
Geothermal	15,975	2.0%
Total Renewable Generation	810,157	

Source: Energy Information Administration Form EIA-860 for capacity, including adjustments for joint ownership, and EIA-923 for generation.

SALES AND REVENUE

Utility Sector Rate Comparison by State, 2021

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

	Residential			Commercial			Industrial			Total		
	Public	IOU	Co-op	Public	IOU	Co-op	Public	IOU	Co-op	Public	IOU	Co-op
Alabama	10.7	14.0	12.4	10.7	12.6	11.6	6.1	6.9	6.8	9.7	10.8	11.3
Alaska	11.8	14.9	23.5	11.3	16.0	18.9	9.7	11.5	17.1	11.3	14.5	20.1
Arizona	11.6	13.3	13.0	9.2	11.2	11.2	5.8	7.4	8.4	9.8	11.5	12.0
Arkansas	9.0	11.4	11.8	8.8	9.3	11.1	6.7	6.4	6.7	8.2	9.0	9.7
California	18.3	23.9	10.1	17.2	19.7	10.4	12.5	18.6	8.6	16.6	21.3	9.1
Colorado	12.3	12.8	13.7	9.7	10.8	11.5	8.1	7.4	8.6	10.1	10.8	11.4
Connecticut	16.2	21.9	-	13.8	16.7	-	9.1	16.3	-	12.7	20.8	-
Delaware	13.3	12.4	11.5	11.7	11.4	11.0	9.3	5.7	-	11.0	12.2	11.4
District of Columbia	-	12.2	-	-	13.5	-	-	-	-	-	12.7	-
Florida	11.7	12.0	11.7	10.1	9.3	10.1	7.6	7.5	8.2	10.5	10.6	11.0
Georgia	11.8	13.2	11.8	10.7	10.4	11.2	5.5	6.4	7.2	9.1	10.2	11.1
Hawaii	-	33.9	36.3	-	31.2	36.6	-	26.9	32.9	-	30.4	35.3
Idaho	7.9	10.3	9.9	6.7	8.0	8.0	5.2	6.5	5.4	7.0	8.2	8.4
Illinois	12.4	13.0	13.8	11.6	10.7	12.0	9.1	7.2	9.1	11.3	12.0	12.4
Indiana	10.9	13.6	13.2	10.1	11.7	11.2	8.4	7.3	6.8	9.5	10.3	10.8
Iowa	11.5	13.1	12.1	8.5	10.4	9.3	6.5	6.4	7.7	8.4	8.9	9.8
Kansas	12.2	12.6	13.9	9.8	10.0	12.0	6.5	7.2	8.0	8.6	10.3	10.8
Kentucky	11.9	11.6	11.4	10.9	10.8	10.9	8.4	6.8	5.3	10.5	9.9	8.5
Louisiana	9.2	11.3	10.4	8.3	10.4	10.6	6.2	6.1	7.4	7.6	8.8	9.9
Maine	12.9	16.7	16.6	11.8	13.7	14.9	9.9	12.0	12.7	11.9	15.8	15.7
Maryland	9.0	12.8	12.5	9.8	12.3	11.0	6.8	11.5	8.2	9.1	12.7	11.9
Massachusetts	14.0	24.7	-	14.0	15.9	-	12.6	19.0	-	13.6	22.2	-
Michigan	14.7	17.9	15.5	13.3	12.7	13.0	8.7	7.9	8.7	12.0	13.7	13.6
Minnesota	13.1	13.7	13.6	11.0	11.5	10.5	8.7	8.2	8.5	10.5	10.9	12.1
Mississippi	10.9	11.3	11.9	10.5	10.4	11.8	5.9	6.6	7.4	9.8	9.5	10.9
Missouri	11.2	11.4	11.2	9.3	9.0	10.5	7.9	6.9	6.5	9.7	9.6	10.2
Montana	-	12.1	10.4	-	11.7	8.4	-	8.1	7.5	-	11.4	9.3
Nebraska	10.6	-	12.5	8.6	-	11.9	6.5	-	11.8	8.4	-	11.9
Nevada	10.0	11.5	12.0	4.2	8.6	9.6	2.7	6.5	5.6	5.0	9.2	7.9
New Hampshire	-	19.3	20.2	-	16.2	18.6	-	13.5	15.2	-	18.4	19.7
New Jersey	16.5	16.2	-	16.4	13.0	-	11.8	8.5	-	14.9	14.9	-
New Mexico	11.8	13.3	14.6	10.3	10.6	12.4	6.9	5.5	7.8	9.2	9.5	10.7
New York	20.9	19.0	-	19.5	18.3	-	4.5	7.8	-	19.5	18.5	-
North Carolina	11.6	10.9	12.4	10.4	8.0	10.4	7.2	5.9	6.7	10.1	8.7	11.5
North Dakota	-	10.9	10.7	-	9.3	9.4	-	7.8	7.3	-	9.7	8.3
Ohio	13.1	12.1	14.2	12.5	11.4	13.1	9.5	7.4	9.4	11.3	11.7	12.6
Oklahoma	11.7	10.6	11.6	10.0	7.9	11.4	5.3	5.1	7.1	7.1	8.0	10.4
Oregon	9.7	12.0	10.1	8.5	9.4	8.5	5.3	7.0	5.1	7.5	10.1	6.8
Pennsylvania	9.9	13.0	13.3	9.3	10.8	11.2	7.6	7.7	7.1	8.9	12.4	11.8
Rhode Island	15.0	22.1	42.0	17.4	13.9	38.1	14.1	19.3	-	14.9	19.8	40.0
South Carolina	11.7	12.9	13.1	10.1	10.4	12.2	5.5	6.2	6.3	8.3	9.9	11.0
South Dakota	10.2	12.8	12.2	9.2	11.0	10.7	7.7	7.8	8.2	8.9	11.0	10.3
Tennessee	11.1	10.1	11.1	10.8	11.1	11.4	5.9	7.1	6.0	10.1	9.3	10.4
Texas	10.8	12.5	11.2	9.4	9.4	10.5	6.4	5.5	8.2	9.6	8.6	10.4
Utah	10.1	10.7	8.3	9.1	7.9	7.8	6.2	6.1	8.0	9.0	8.2	8.1
Vermont	16.2	19.6	20.5	15.0	17.0	16.1	11.6	11.0	11.6	14.6	16.4	17.7
Virginia	11.7	12.0	12.0	9.6	7.6	10.8	8.0	6.2	6.9	10.2	9.1	9.9
Washington	9.6	11.0	8.8	8.3	10.6	7.7	5.4	7.8	6.3	7.9	10.5	8.0
West Virginia	-	12.1	-	-	9.5	-	-	6.1	-	-	8.8	-
Wisconsin	11.6	14.9	14.3	10.2	11.0	11.1	7.4	7.6	7.6	9.5	11.1	11.9
Wyoming	10.6	11.6	9.5	8.7	9.9	8.9	-	6.3	7.9	9.5	7.8	8.5

Source: Department of Energy, Energy Information Administration, Form EIA-861, 2021.

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. In 2021, public power utilities had average residential rates that were 12% lower than those for investor-owned utilities (IOUs) but were about 3% higher than the average residential rates for rural electric cooperative utilities. This comparative data may be skewed by Energy Information Administration reporting requirements, which increased the threshold to complete the shorter Form EIA-861S from 1000,000 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.

When it comes to the actual bill, residential customers of public power utilities have the lowest average monthly bills. Public power residential customers use less electricity on average than cooperative customers, and slightly more than IOU customers. Not including customer charges and other fees, public power customers paid an average of \$22 less than cooperative residential customers per month, saving \$267.95 per year.

	Investor-Owned Utility	Cooperative	Public Power
Average residential rate per kilowatt-hour	\$0.1386	\$0.1208	\$0.1241
Average kWh/month	\$849	\$1,124	\$914
Average monthly customer bill (extrapolated)	\$118	\$136	\$113

Source: Energy Information Administration Form EIA-860, 2021.

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.



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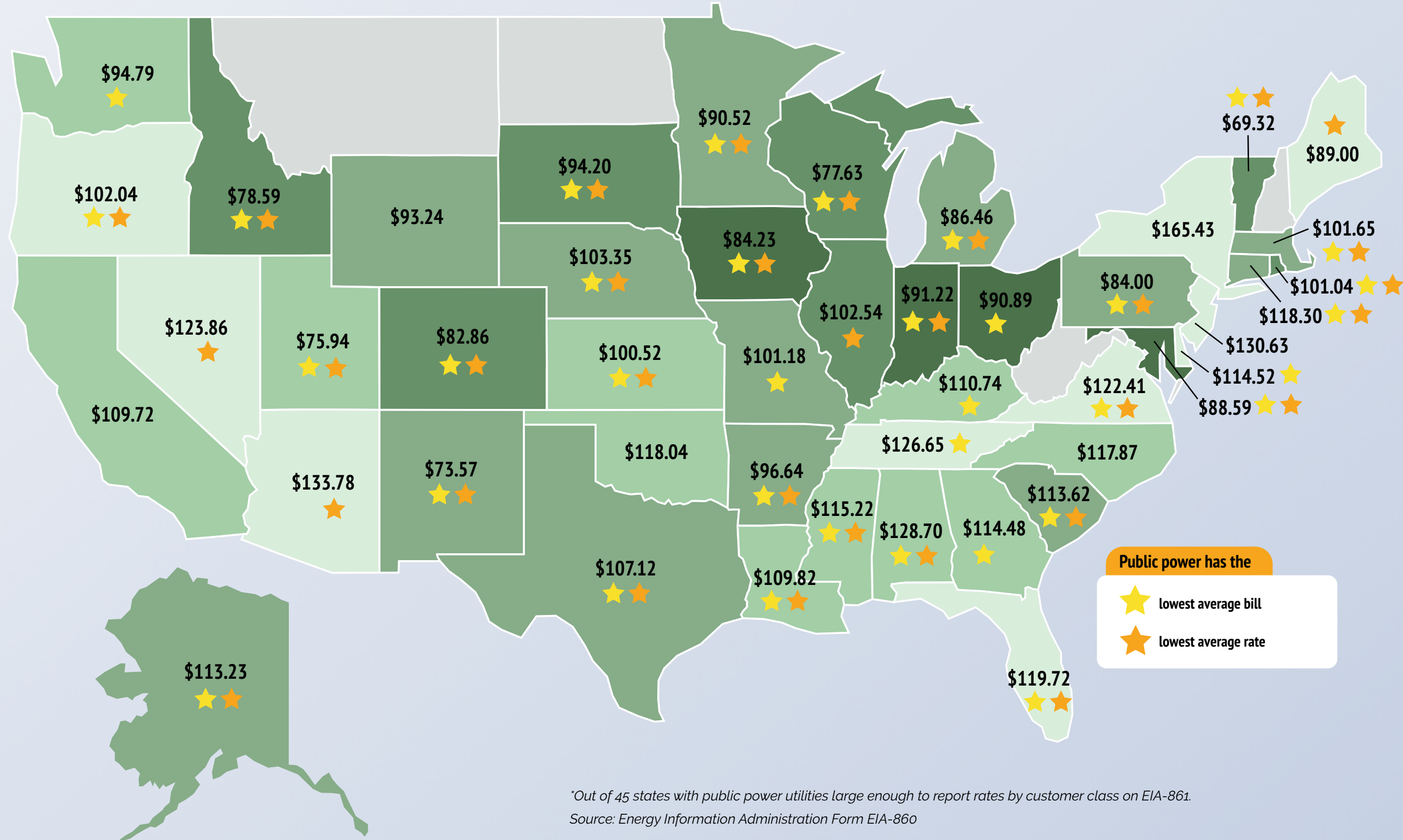
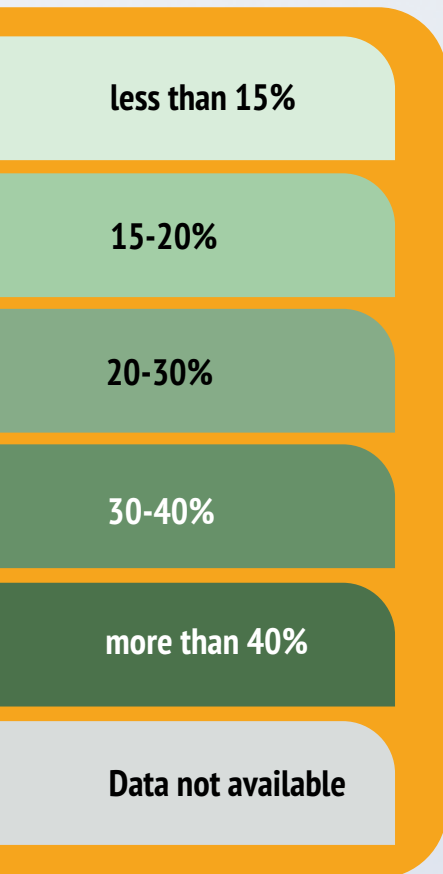
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PUBLIC POWER IS THE AFFORDABLE CHOICE

Across the U.S., customers of public power utilities pay less than customers of other types of utilities. In 35 states, residential customers of public power utilities have the lowest average bill – saving an average of \$27.91 per month. In 32 states, public power utilities offer residential customers the lowest average rate.*

Public power average customer savings:



Public power has the

- ★ lowest average bill
- ★ lowest average rate

*Out of 45 states with public power utilities large enough to report rates by customer class on EIA-861. Source: Energy Information Administration Form EIA-860

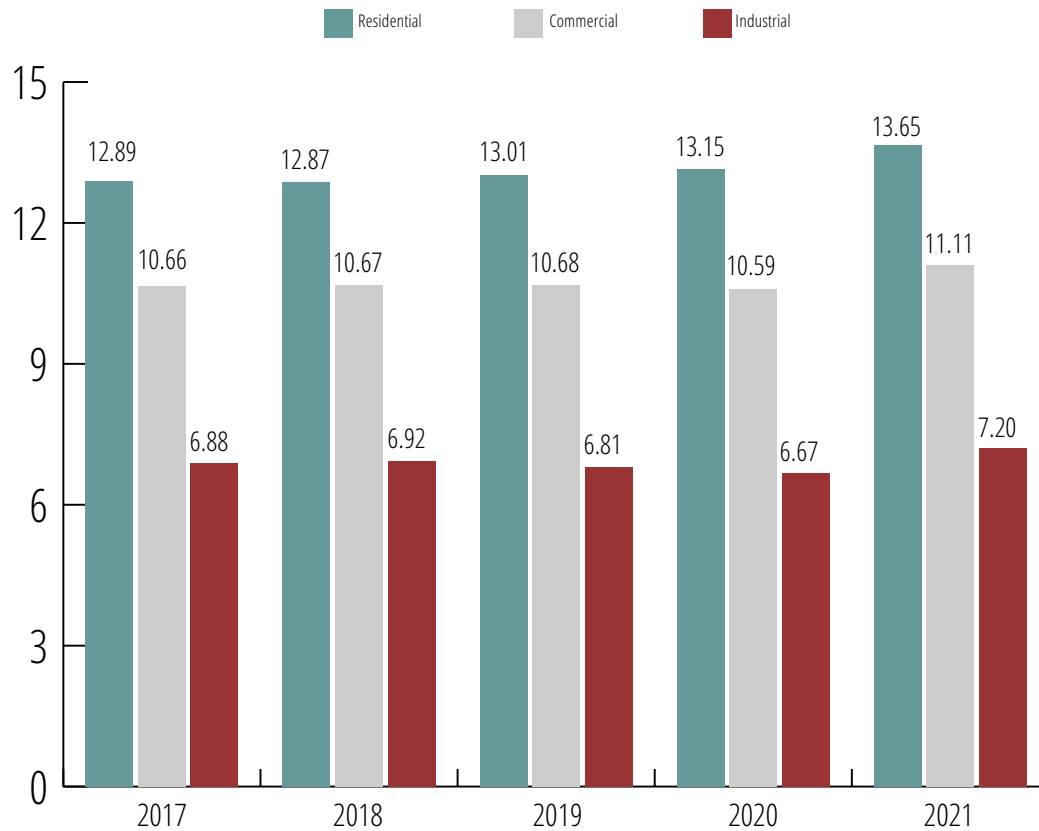
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SALES AND REVENUE

Average Retail Rates by Customer Class, All Utility Types

Revenue per Kilowatt-hour, in cents



Source: Energy Information Administration

Electric Revenue from Sales to Ultimate Customers

In millions of dollars

Utility Type	Full-Service Sales	Energy-Only Sales	Delivery-Only Sales	Total	Percent of Total
Public Power	\$60,766	\$1,044	\$40	\$61,850	14.3%
Investor-Owned Utilities	\$225,241	\$2	\$32,060	\$257,304	59.4%
Cooperatives	\$50,289	\$102	\$17	\$50,408	11.6%
Federal Power Agencies	\$1,114	\$0	\$0	\$1,114	0.3%
Behind-the-Meter	\$1,545	\$0	\$0	\$1,545	0.4%
Community Choice Aggregators	\$0	\$3,716	\$0	\$3,716	0.9%
Power Marketers	\$24,302	\$33,079	\$0	\$57,381	13.2%
TOTAL	\$363,258	\$37,944	\$32,118	\$433,319	

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, 2021. Does not include U.S. territories.

PUBLIC POWER PAYS

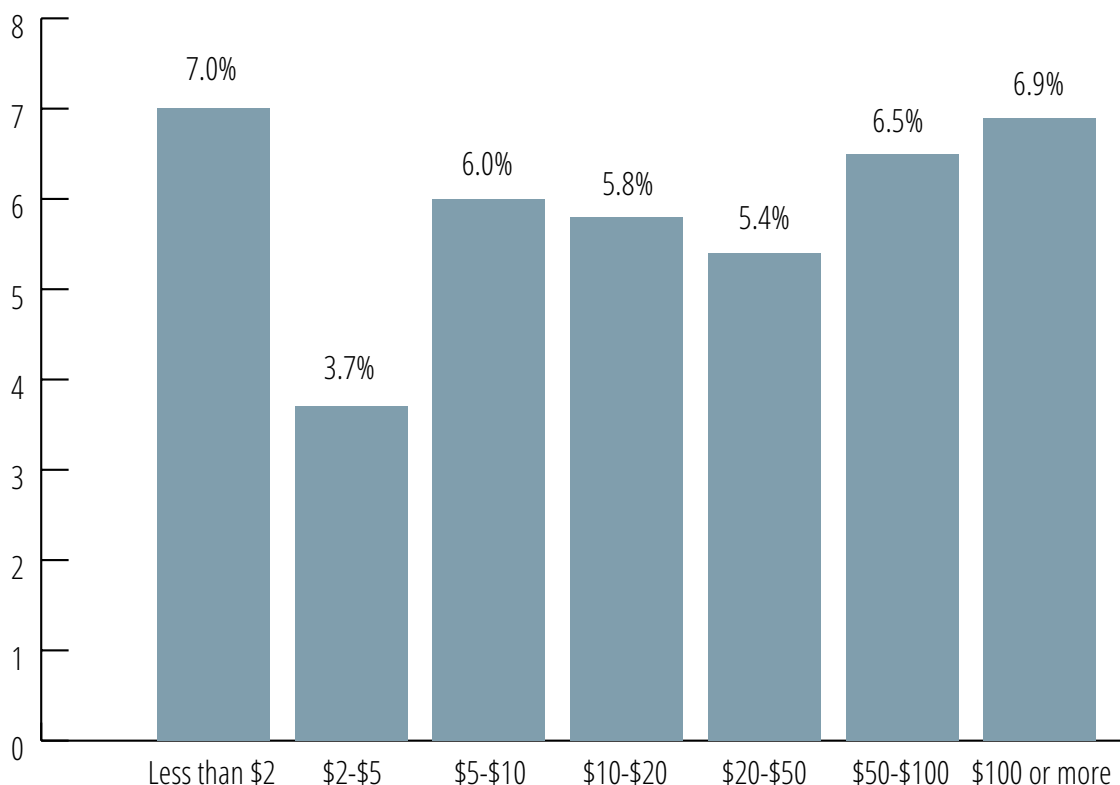
Community-owned utilities are not beholden to any shareholders and are driven only by the mission to serve their customers and their community. In addition to providing electricity, public power utilities provide a direct benefit to their communities in the form of payments and contributions to state and local government. These contributions come in many forms — property-like taxes, payments in lieu of taxes, transfers to the general fund, and free or reduced cost services provided to states and cities. The total value of these contributions is not always recognized, as some utilities do not quantify all their payments and contributions.

In 2020, public power utilities contributed a median of 6.1% of electric operating revenues to the communities they serve, according to an American Public Power Association survey of 192 public power utilities. In comparison, investor-owned utilities paid a median of 5.1% of electric operating revenues in taxes and fees to state and local governments in 2020.

When all 2020 taxes, tax equivalents, and other contributions to state and local government are considered, the contribution of public power utilities — as a percentage of electric operating revenues — is 20% higher than that of investor-owned utilities.

Median Net Payments and Contributions by Public Power Utilities as Percent of Electric Operating Revenue, 2020

In millions



PUBLIC POWER PAYS

The 164 utilities that completed the survey that are not served by the Tennessee Valley Authority (where utilities must limit payments and contributions under the terms of their wholesale power contract), made \$1.15 billion in total payments and contributions to their state and local governments in 2020. Payments in lieu of taxes were the largest share of payments and contributions, followed by other taxes and fees.

Net Payments and Contributions to State and Local Government, 2020

	Amount (\$ Millions)	Percent of Total
Payments in Lieu of Taxes	\$704.7	60.8%
Other Taxes and Fees	\$273.8	23.6%
Gross Receipts Tax	\$123.1	10.6%
Free or Reduced Cost Electric Services	\$44.0	3.8%
Use of Employees	\$6.6	0.6%
Use of Vehicles, Equipment, Materials & Supplies	\$6.9	0.6%
Total	\$1,159.1	

Types of Payments and Contributions Provided, 2020

	Percent of Utilities	Number of Utilities
Payments in Lieu of Taxes	79.9%	131
Taxes and Fees	41.5%	68
Gross Receipts Tax	29.9%	49
State Public Utility Assessments	20.7%	34
Property Taxes	16.5%	27
Franchise Fees	3.7%	6
Other	16.5%	27
Free or Reduced Cost Electric Service	42.1%	69
Streetlighting	33.5%	55
Lighting for Municipal Buildings	22.0%	36
Recreational Facilities	15.2%	25
Traffic Signals	13.4%	22
Water Pumping	8.5%	14
Water or Sewer Treatment Facilities	7.9%	13
Other	15.2%	25

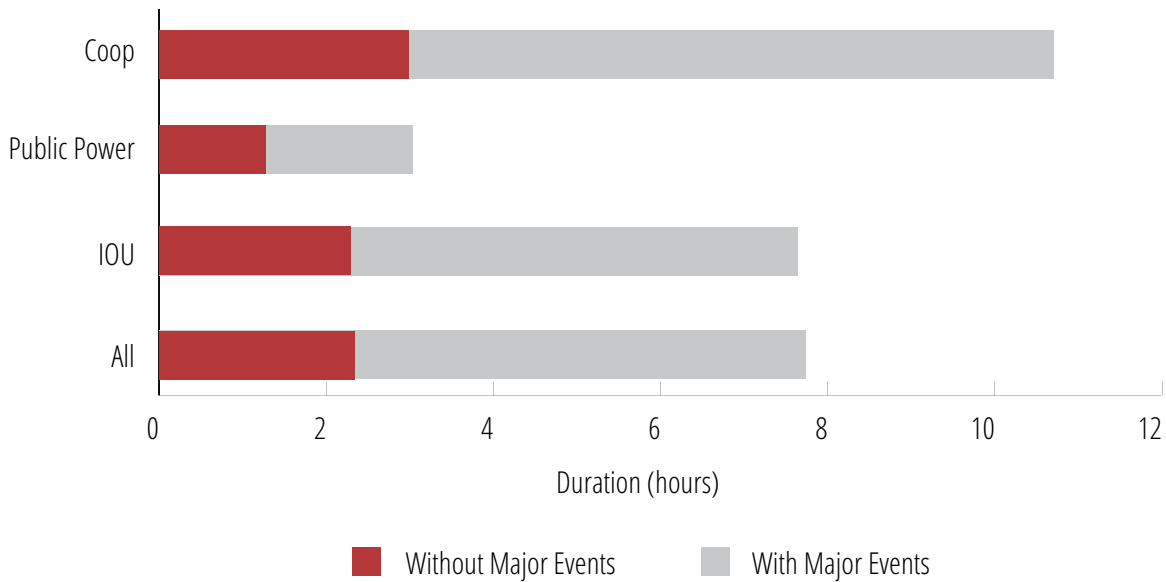
	Percent of Utilities	Number of Utilities
Use of Employees	53.7%	88
Putting Up City Signs & Banners	30.5%	50
Installation of Temporary Lighting	26.2%	43
Traffic Signal Maintenance	25.6%	42
Electrical Repair for Other Departments	18.3%	30
Tree Trimming for Other Departments	14.6%	24
Non-Utility Locates	8.5%	14
Technical Expertise	8.5%	14
Reading Water Meters	7.3%	12
Rewiring Municipal Buildings	6.1%	10
Other Services	14.6%	24
Other Resources	34.8%	57
Use of Vehicles & Equipment	23.2%	38
Use of Materials & Supplies	9.8%	16
Other	14.0%	23

Public power utilities also support their communities through charitable giving programs for their employees (26% of respondents) and providing volunteering options (18% of respondents). In 2020, public power employees from the surveyed utilities donated a total of \$3,047,393, with a median charitable donation of \$5,100 for utilities with less than \$50,000,000 in revenue and \$11,083 for utilities with greater than \$50,000,000 in revenue. Additionally, public power employees from the surveyed utilities volunteered a total of 27,416 hours in 2020.

RELIABILITY

Average Duration of Electric Outages by Utility Type, 2021

System average interruption duration index (SAIDI), in hours



SAIDI (IEEE Standard)	Without Major Events	With Major Events
Coop	2.98	10.70
IOU	2.29	7.64
Public Power	1.27	3.03
All Utility Types	2.34	7.73

Public power customers experienced half the average outage time as customers of other utilities.

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INDUSTRY STATISTICS

Number of Customers by Utility Type

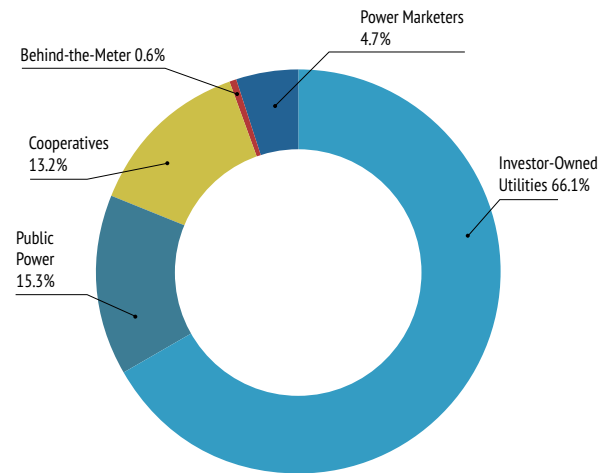
	Full-Service Customers	Delivery-Only Customers	Total	Percent of Total
Investor-Owned Utilities	90,766,884	15,677,969	106,444,853	66.1%
Public Power	24,624,724	391	24,625,115	15.3%
Cooperatives	21,310,467	6,968	21,317,435	13.2%
Federal Power Agencies	39,485		39,485	0.0%
Behind-the-Meter	999,091		999,091	0.6%
Power Marketers	7,623,046		7,623,046	4.7%
TOTAL	145,363,697	15,685,328	161,049,025	

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.

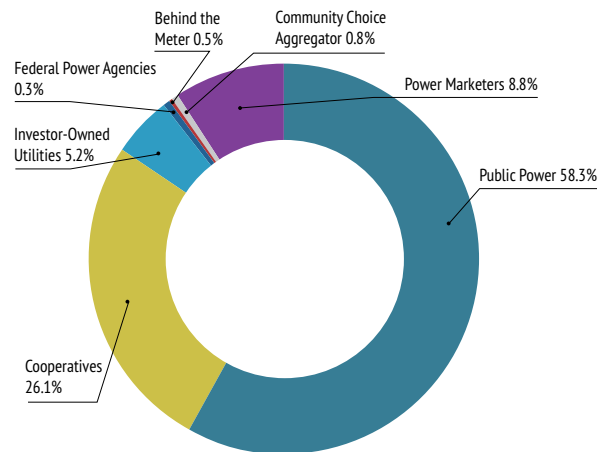
Behind-the-meter entities install, own, and/or operate systems (usually solar PV), and sell, under a long term power purchase agreement or lease, all the production from the system to the homeowner or business with which there is a net metering agreement.

Source: Energy Information Administration Forms EIA-861 and 861S, 2021.



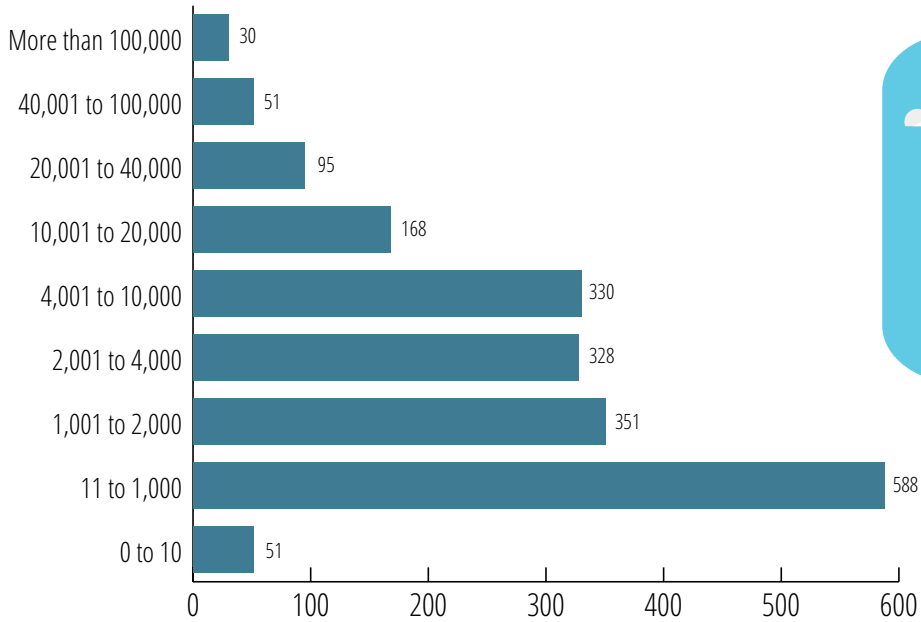
Number of Providers by Type

		Percent of Total
Public Power	1,996	58.3%
Cooperatives	894	26.1%
Investor-Owned Utilities	179	5.2%
Federal Power Agencies	10	0.3%
Behind the Meter	17	0.5%
Community Choice Aggregator	26	0.8%
Power Marketers	303	8.8%
TOTAL	3,425	

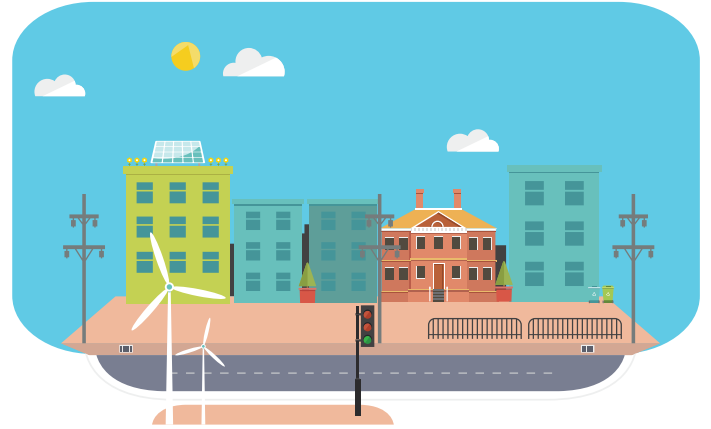


INDUSTRY STATISTICS

Distribution of Public Power Utilities by Customer Count



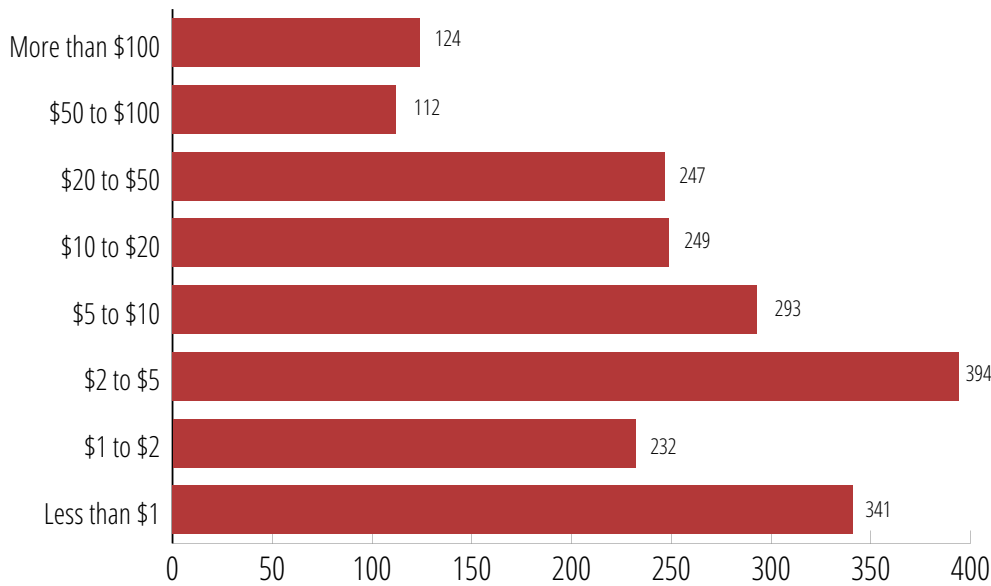
Note: Systems with less than 10 customers include joint action agencies and other wholesale utilities. Includes territories



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

In millions of dollars



Includes territories and joint action agencies

INDUSTRY STATISTICS

100 Largest Public Power Systems by Generation, 2021

Net Generation in megawatt-hours

1	Salt River Project	AZ	29,823,912	51	Utah Associated Municipal Power Systems	UT	1,300,247
2	New York Power Authority	NY	29,770,824	52	Western Minnesota Municipal Power Agency	MN	1,278,411
3	CPS Energy	TX	24,265,723	53	Metropolitan Water District of Southern California	CA	1,266,431
4	Los Angeles Department of Water & Power	CA	20,420,918	54	WPPI Energy	WI	1,206,699
5	Santee Cooper (South Carolina Public Service Authority)	SC	17,802,933	55	Michigan Public Power Agency	MI	1,072,116
6	Nebraska Public Power District	NE	15,449,381	56	Lafayette Public Power Authority	LA	994,006
7	Lower Colorado River Authority	TX	13,769,866	57	Muscatine Power & Water	IA	981,430
8	Puerto Rico Electric Pwr Authority	PR	11,452,025	58	San Francisco (Hetch Hetchy Water & Power), City of	CA	977,663
9	MEAG Power	GA	11,164,975	59	Holland Board of Public Works	MI	972,712
10	JEA	FL	10,424,514	60	Brownsville Public Utilities Board	TX	891,651
11	Grant County, Public Utility District No. 2 of	WA	9,549,586	61	Minnesota Municipal Power Agency	MN	885,596
12	American Municipal Power	OH	9,344,223	62	Louisiana Energy and Power Authority	LA	837,365
13	Omaha Public Power District	NE	8,977,573	63	Silicon Valley Power	CA	831,781
14	Energy Northwest	WA	8,843,146	64	Springfield City Water, Light & Power	IL	830,322
15	Austin Energy	TX	8,570,258	65	Jonesboro City Water & Light	AR	752,816
16	Chelan County Public Utility District No. 1	WA	8,514,647	66	Utah Municipal Power Agency	UT	729,107
17	Florida Municipal Power Agency	FL	8,134,465	67	Dalton Utilities	GA	715,107
18	Intermountain Power Agency	UT	7,580,586	68	Northern Municipal Power Agency	MN	714,286
19	Southern California Public Power Authority	CA	7,309,906	69	Virgin Islands Water & Power Authority	VI	671,848
20	North Carolina Municipal Power Agency No. 1	NC	7,060,408	70	Farmington, City of	NM	631,175
21	Sacramento Municipal Utility District	CA	6,776,244	71	Yuba County Water Agency	CA	579,130
22	Orlando Utilities Commission	FL	6,686,391	72	NMPP Energy: Municipal Energy Agency of Nebraska	NE	578,108
23	Seattle City Light	WA	5,997,870	73	Hastings, City of	NE	555,847
24	Grand River Dam Authority	OK	5,443,764	74	Fremont Department of Utilities	NE	528,022
25	Douglas County, Public Utility District No. 1 of	WA	4,074,325	75	Roseville Electric	CA	522,087
26	Colorado Springs Utilities	CO	3,870,275	76	Snohomish County, Public Utility District No. 1 of	WA	502,026
27	Indiana Municipal Power Agency	IN	3,428,872	77	Pend Oreille County, Public Utility District No. 1 of	WA	477,371
28	Missouri Joint Municipal Electric Utility Comm	MO	3,339,044	78	Modesto Irrigation District	CA	440,560
29	Illinois Municipal Electric Agency	IL	2,938,402	79	Grand Island, City of	NE	426,013
30	Tallahassee Electric Utility, City of	FL	2,765,009	80	Redding, City of	CA	392,623
31	Northern California Power Agency	CA	2,743,806	81	Burbank Water and Power	CA	369,578
32	Springfield, City Utilities of	MO	2,637,366	82	Placer County Water Agency	CA	296,029
33	Platte River Power Authority	CO	2,608,207	83	Tri-Dam Project	CA	293,779
34	Oklahoma Municipal Power Authority	OK	2,559,590	84	Holyoke Gas & Electric	MA	287,167
35	Lakeland Electric	FL	2,470,528	85	Toledo Bend Project	TX	277,540
36	Tacoma Public Utilities	WA	2,441,146	86	Denton Municipal Electric	TX	262,378
37	Piedmont Municipal Power Agency	SC	2,326,594	87	Central Nebraska Public Power & Irrigation District	NE	262,164
38	Turlock Irrigation District	CA	2,166,832	88	Ames, City of	IA	256,553
39	Long Island Power Authority	NY	2,008,064	89	West Memphis, City of	AR	250,873
40	Clark Public Utilities	WA	1,942,965	90	Eugene Water & Electric Board	OR	244,268
41	Gainesville Regional Utilities	FL	1,915,672	91	Los Alamos County Utilities	NM	241,899
42	Massachusetts Municipal Wholesale Electric Co.	MA	1,686,585	92	Manitowoc Public Utilities	WI	241,592
43	Guam Power Authority	GU	1,649,905	93	Independence Power & Light	MO	240,029
44	Sikeston Board of Municipal Utilities	MO	1,637,538	94	Farmington, City of	MO	231,090
45	California Department of Water Resources	CA	1,591,280	95	Cedar Falls Utilities	IA	224,879
46	IID Energy	CA	1,479,893	96	Rochelle Municipal Utilities	IL	223,639
47	Southern Minnesota Municipal Power Agency	MN	1,456,356	97	Conway Corporation	AR	223,490
48	Lincoln Electric System	NE	1,389,190	98	Gillette, City of	WY	210,136
49	Lansing Board of Water & Light	MI	1,344,647	99	Chanute, City of	KS	195,823
50	Kansas City Board of Public Utilities	KS	1,336,704	100	Bryan Texas Utilities	TX	187,155

INDUSTRY STATISTICS

100 Largest Public Power Systems by Electric Revenues, 2021

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

1	Los Angeles Department of Water & Power	CA	\$4,167,079	51	Illinois Municipal Electric Agency	IL	\$310,896
2	Long Island Power Authority	NY	\$3,886,754	52	Garland, City of	TX	\$307,092
3	Puerto Rico Electric Pwr Authority	PR	\$3,642,199	53	Tallahassee Electric Utility, City of	FL	\$267,073
4	Salt River Project	AZ	\$3,416,963	54	Brownsville Public Utilities Board	TX	\$265,841
5	CPS Energy	TX	\$2,485,353	55	Cowlitz County, Public Utility District No. 1 of	WA	\$261,272
6	Santee Cooper (South Carolina Public Service Authority)	SC	\$1,743,228	56	Lubbock Power & Light	TX	\$260,927
7	New York Power Authority	NY	\$1,696,315	57	Eugene Water & Electric Board	OR	\$259,696
8	Sacramento Municipal Utility District	CA	\$1,665,780	58	Platte River Power Authority	CO	\$259,630
9	Omaha Public Power District	NE	\$1,368,667	59	Gainesville Regional Utilities	FL	\$255,420
10	Memphis Light, Gas and Water Division	TN	\$1,298,988	60	Kansas City Board of Public Utilities	KS	\$253,530
11	Nashville Electric Service	TN	\$1,288,549	61	Sam Rayburn Municipal Power Agency	TX	\$245,123
12	JEA	FL	\$1,221,110	62	Massachusetts Municipal Wholesale Electric Co.	MA	\$242,122
13	Nebraska Public Power District	NE	\$1,197,185	63	Michigan Public Power Agency	MI	\$228,976
14	Austin Energy	TX	\$1,149,844	64	Missouri River Energy Services	SD	\$226,652
15	Seattle City Light	WA	\$1,094,119	65	Virgin Islands Water & Power Authority	VI	\$225,240
16	American Municipal Power	OH	\$1,071,335	66	Northern California Power Agency	CA	\$223,435
17	Southern California Public Power Authority	CA	\$869,668	67	Lafayette Utilities System	LA	\$222,050
18	Orlando Utilities Commission	FL	\$781,871	68	Glendale Water & Power	CA	\$217,342
19	MEAG Power	GA	\$764,436	69	Southern Minnesota Municipal Power Agency	MN	\$217,024
20	Snohomish County, Public Utility District No. 1 of	WA	\$666,038	70	Fayetteville Public Works Commission	NC	\$213,666
21	Lower Colorado River Authority	TX	\$605,542	71	Piedmont Municipal Power Agency	SC	\$210,128
22	Knoxville Utilities Board	TN	\$552,438	72	Utah Associated Municipal Power Systems	UT	\$205,150
23	Florida Municipal Power Agency	FL	\$551,076	73	BrightRidge	TN	\$201,543
24	EPB - Chattanooga Electric Power Board	TN	\$549,589	74	Cleveland Public Power	OH	\$197,903
25	North Carolina Eastern Municipal Power Agency	NC	\$532,882	75	Kissimmee Utility Authority	FL	\$194,190
26	IID Energy	CA	\$532,130	76	Oklahoma Municipal Power Authority	OK	\$191,826
27	Energy Northwest	WA	\$521,622	77	Burbank Water and Power	CA	\$191,315
28	Colorado Springs Utilities	CO	\$521,472	78	Alabama Municipal Electric Authority	AL	\$189,313
29	Huntsville Utilities	AL	\$511,613	79	Springfield City Water, Light & Power	IL	\$188,736
30	Silicon Valley Power	CA	\$487,947	80	Pasadena Water and Power Department	CA	\$185,634
31	Indiana Municipal Power Agency	IN	\$480,553	81	Vernon, City of	CA	\$181,686
32	North Carolina Municipal Power Agency No. 1	NC	\$477,316	82	Lenoir City Utilities Board	TN	\$176,580
33	Tacoma Public Utilities	WA	\$467,129	83	CDE Lightband	TN	\$176,185
34	WPPI Energy	WI	\$465,160	84	Greenville Utilities Commission	NC	\$173,332
35	Intermountain Power Agency	UT	\$444,227	85	Benton PUD	WA	\$163,339
36	Grand River Dam Authority	OK	\$437,606	86	Roseville Electric	CA	\$163,252
37	Clark Public Utilities	WA	\$405,663	87	Sevier County Electric System	TN	\$162,576
38	Modesto Irrigation District	CA	\$400,724	88	Vinton Public Power Authority	LA	\$159,723
39	Chelan County Public Utility District No. 1	WA	\$396,919	89	Minnesota Municipal Power Agency	MN	\$157,850
40	Turlock Irrigation District	CA	\$387,806	90	New Braunfels Utilities	TX	\$155,214
41	Anaheim Public Utilities	CA	\$355,726	91	Rochester Public Utilities	MN	\$150,910
42	Springfield, City Utilities of	MO	\$348,228	92	Douglas County, Public Utility District No. 1 of	WA	\$150,042
43	Lincoln Electric System	NE	\$348,151	93	Naperville Department of Public Utilities	IL	\$149,821
44	Grant County, Public Utility District No. 2 of	WA	\$345,384	94	Fort Collins Utilities	CO	\$146,152
45	Missouri Joint Municipal Electric Utility Comm	MO	\$335,979	95	Denton Municipal Electric	TX	\$145,636
46	Bryan Texas Utilities	TX	\$325,698	96	Jackson Energy Authority	TN	\$140,530
47	Riverside Public Utilities, City of	CA	\$325,406	97	Grays Harbor County, Public Utility District No. 1 of	WA	\$139,965
48	Guam Power Authority	GU	\$324,234	98	Redding, City of	CA	\$135,202
49	Lakeland Electric	FL	\$318,363	99	Dalton Utilities	GA	\$133,787
50	Lansing Board of Water & Light	MI	\$316,632	100	Columbia Water & Light	MO	\$131,718

INDUSTRY STATISTICS

100 Largest Public Power Systems by Electric Customers Served, 2021

Ultimate customers served

1	Puerto Rico Electric Pwr Authority	PR	1,485,261	51	Bryan Texas Utilities	TX	64,294
2	Los Angeles Department of Water & Power	CA	1,465,281	52	Naperville Department of Public Utilities	IL	61,651
3	Long Island Power Authority	NY	1,147,438	53	Sevier County Electric System	TN	59,692
4	Salt River Project	AZ	1,098,151	54	Independence Power & Light	MO	59,442
5	CPS Energy	TX	885,307	55	Denton Municipal Electric	TX	58,525
6	Sacramento Municipal Utility District	CA	643,363	56	Rochester Public Utilities	MN	57,971
7	Austin Energy	TX	523,541	57	Silicon Valley Power	CA	57,321
8	JEA	FL	497,021	58	Virgin Islands Water & Power Authority	VI	56,307
9	Seattle City Light	WA	485,155	59	Benton PUD	WA	56,072
10	Nashville Electric Service	TN	427,804	60	Ocala Utility Services, City of	FL	55,032
11	Memphis Light, Gas and Water Division	TN	422,797	61	Grant County, Public Utility District No. 2 of	WA	53,213
12	Omaha Public Power District	NE	395,425	62	Burbank Water and Power	CA	53,097
13	Snohomish County, Public Utility District No. 1 of	WA	367,096	63	Riviera Utilities	AL	52,907
14	Orlando Utilities Commission	FL	261,047	64	Brownsville Public Utilities Board	TX	52,667
15	Colorado Springs Utilities	CO	244,132	65	Guam Power Authority	GU	52,264
16	Clark Public Utilities	WA	224,988	66	Cowlitz County, Public Utility District No. 1 of	WA	52,217
17	Knoxville Utilities Board	TN	210,355	67	Athens, City of	AL	51,839
18	Huntsville Utilities	AL	199,546	68	Columbia Water & Light	MO	51,286
19	Santee Cooper (South Carolina Public Service Authority)	SC	196,789	69	Florence Utilities	AL	50,051
20	EPB - Chattanooga Electric Power Board	TN	192,160	70	New Braunfels Utilities	TX	48,910
21	Tacoma Public Utilities	WA	184,103	71	Chelan County Public Utility District No. 1	WA	48,576
22	IID Energy	CA	159,822	72	Danville Department of Utilities	VA	48,457
23	Lincoln Electric System	NE	145,834	73	Farmington, City of	NM	44,983
24	Lakeland Electric	FL	137,163	74	Redding, City of	CA	44,604
25	Modesto Irrigation District	CA	131,535	75	College Station, City of	TX	44,055
26	Tallahassee Electric Utility, City of	FL	121,789	76	Grays Harbor County, Public Utility District No. 1 of	WA	43,620
27	Anaheim Public Utilities	CA	121,403	77	High Point, City of	NC	43,204
28	Springfield, City Utilities of	MO	118,487	78	Navajo Tribal Utility Authority	AZ	42,989
29	Riverside Public Utilities, City of	CA	111,742	79	Longmont Power & Communications	CO	42,558
30	Lubbock Power & Light	TX	108,196	80	Edmond, City of	OK	42,163
31	Gainesville Regional Utilities	FL	101,116	81	Marietta Board of Lights & Water	GA	41,670
32	Lansing Board of Water & Light	MI	99,425	82	Central Lincoln People's Utility District	OR	40,584
33	Eugene Water & Electric Board	OR	96,356	83	Rock Hill, City of	SC	39,667
34	Turlock Irrigation District	CA	94,839	84	North Little Rock, City of	AR	39,575
35	Nebraska Public Power District	NE	92,948	85	Greeneville Light & Power System	TN	39,436
36	Glendale Water & Power	CA	90,079	86	Provo City Power	UT	39,402
37	Fayetteville Public Works Commission	NC	83,881	87	Jonesboro City Water & Light	AR	39,176
38	Kissimmee Utility Authority	FL	82,808	88	Loveland Water & Power	CO	38,759
39	BrightRidge	TN	81,112	89	Taunton Municipal Lighting Plant	MA	38,678
40	Fort Collins Utilities	CO	77,681	90	Dickson Electric System	TN	36,871
41	CDE Lightband	TN	77,443	91	Jackson Energy Authority	TN	36,825
42	Cleveland Public Power	OH	74,090	92	Alameda Municipal Power	CA	36,179
43	Garland, City of	TX	73,607	93	Beaches Energy Services	FL	35,853
44	Springfield City Water, Light & Power	IL	71,796	94	Wilson Energy	NC	35,503
45	Lenoir City Utilities Board	TN	71,531	95	Mason County Public Utility District No. 3	WA	35,082
46	Greenville Utilities Commission	NC	71,120	96	Bristol Tennessee Essential Services	TN	34,108
47	Lafayette Utilities System	LA	70,094	97	Lewis County, Public Utility District No. 1 of	WA	33,873
48	Kansas City Board of Public Utilities	KS	66,775	98	Anderson Municipal Light & Power	IN	33,432
49	Pasadena Water and Power Department	CA	65,373	99	Clallam County, Public Utility District No. 1 of	WA	33,397
50	Roseville Electric	CA	65,337	100	Albany Water, Gas & Light Commission	GA	33,261

INDUSTRY STATISTICS

100 Largest Public Power Systems by Megawatt-hour Sales, 2021

Sales to ultimate customers and sales for resale

1	Salt River Project	AZ	39,417,601	51	Northern California Power Agency	CA	3,590,280
2	New York Power Authority	NY	36,999,169	52	Garland, City of	TX	3,521,850
3	CPS Energy	TX	29,121,403	53	Utah Associated Municipal Power Systems	UT	3,518,766
4	Santee Cooper (South Carolina Public Service Authority)	SC	24,090,584	54	Turlock Irrigation District	CA	3,425,341
5	Los Angeles Department of Water & Power	CA	21,257,556	55	Lakeland Electric	FL	3,362,135
6	Nebraska Public Power District	NE	19,413,835	56	Minnesota Municipal Power Agency	MN	3,161,492
7	Long Island Power Authority	NY	18,291,720	57	Alabama Municipal Electric Authority	AL	3,097,413
8	Puerto Rico Electric Pwr Authority	PR	16,269,416	58	Massachusetts Municipal Wholesale Electric Co.	MA	3,072,125
9	Omaha Public Power District	NE	15,730,501	59	Michigan Public Power Agency	MI	3,053,286
10	American Municipal Power	OH	15,097,828	60	Lafayette Utilities System	LA	3,048,266
11	Lower Colorado River Authority	TX	14,616,093	61	Southern Minnesota Municipal Power Agency	MN	2,947,826
12	Austin Energy	TX	13,613,928	62	Tallahassee Electric Utility, City of	FL	2,741,006
13	Sacramento Municipal Utility District	CA	13,214,679	63	Anaheim Public Utilities	CA	2,708,235
14	Memphis Light, Gas and Water Division	TN	13,071,127	64	Kansas City Board of Public Utilities	KS	2,613,087
15	Southern California Public Power Authority	CA	12,105,095	65	Lubbock Power & Light	TX	2,593,111
16	JEA	FL	12,090,320	66	Vinton Public Power Authority	LA	2,585,140
17	MEAG Power	GA	12,022,280	67	Lansing Board of Water & Light	MI	2,532,806
18	Nashville Electric Service	TN	11,740,802	68	Piedmont Municipal Power Agency	SC	2,509,368
19	Seattle City Light	WA	11,465,932	69	Oklahoma Municipal Power Authority	OK	2,429,737
20	Grant County, Public Utility District No. 2 of	WA	10,980,363	70	Benton PUD	WA	2,224,705
21	Chelan County Public Utility District No. 1	WA	9,893,518	71	Dalton Utilities	GA	2,120,174
22	Energy Northwest	WA	8,843,146	72	Riverside Public Utilities, City of	CA	2,114,340
23	Grand River Dam Authority	OK	8,529,902	73	Sikeston Board of Municipal Utilities	MO	2,074,782
24	Florida Municipal Power Agency	FL	8,189,642	74	Louisiana Energy and Power Authority	LA	2,046,767
25	Orlando Utilities Commission	FL	8,188,395	75	Gainesville Regional Utilities	FL	2,042,375
26	Snohomish County, Public Utility District No. 1 of	WA	8,100,856	76	Bryan Texas Utilities	TX	2,039,575
27	Intermountain Power Agency	UT	7,580,586	77	Fayetteville Public Works Commission	NC	1,995,580
28	North Carolina Eastern Municipal Power Agency	NC	7,473,125	78	NMPP Energy: Municipal Energy Agency of Nebraska	NE	1,921,781
29	North Carolina Municipal Power Agency No. 1	NC	7,197,617	79	BrightRidge	TN	1,905,580
30	Indiana Municipal Power Agency	IN	6,507,724	80	Utah Municipal Power Agency	UT	1,896,435
31	Tacoma Public Utilities	WA	6,497,228	81	Muscatine Power & Water	IA	1,887,197
32	WPPI Energy	WI	5,849,062	82	Brownsville Public Utilities Board	TX	1,795,424
33	Knoxville Utilities Board	TN	5,732,209	83	Greenville Utilities Commission	NC	1,754,105
34	EPB - Chattanooga Electric Power Board	TN	5,575,660	84	Kansas Municipal Energy Agency	KS	1,753,695
35	Missouri Joint Municipal Electric Utility Comm	MO	5,492,836	85	Springfield City Water, Light & Power	IL	1,731,245
36	Clark Public Utilities	WA	5,352,264	86	Colorado River Commission of Nevada	NV	1,668,240
37	Colorado Springs Utilities	CO	5,309,412	87	Kissimmee Utility Authority	FL	1,662,752
38	Huntsville Utilities	AL	5,056,121	88	New Braunfels Utilities	TX	1,650,897
39	Platte River Power Authority	CO	4,836,886	89	Jackson Energy Authority	TN	1,650,527
40	Douglas County, Public Utility District No. 1 of	WA	4,709,424	90	Lenoir City Utilities Board	TN	1,650,079
41	Sam Rayburn Municipal Power Agency	TX	4,617,216	91	CDE Lightband	TN	1,583,094
42	Cowlitz County, Public Utility District No. 1 of	WA	4,509,075	92	Sevier County Electric System	TN	1,570,920
43	Springfield, City Utilities of	MO	4,357,711	93	Cleveland Public Power	OH	1,564,909
44	Modesto Irrigation District	CA	4,287,069	94	Burbank Water and Power	CA	1,557,736
45	Silicon Valley Power	CA	4,133,861	95	Guam Power Authority	GU	1,554,967
46	Lincoln Electric System	NE	4,064,723	96	Grays Harbor County, Public Utility District No. 1 of	WA	1,548,402
47	Illinois Municipal Electric Agency	IL	3,819,137	97	Denton Municipal Electric	TX	1,512,916
48	Missouri River Energy Services	SD	3,713,305	98	Fort Collins Utilities	CO	1,476,409
49	IID Energy	CA	3,615,901	99	Virginia Municipal Electric Association No. 1	VA	1,464,192
50	Eugene Water & Electric Board	OR	3,608,948	100	Jonesboro City Water & Light	AR	1,446,001

PUBLIC POWER DATA BY STATE AND TERRITORY, 2021

	Public Power Utilities	Ultimate Customers	Sales to Ultimate Customers (MWh)	Revenue from Sales to Ultimate Customers (thousands of dollars)	Generation (MWh)
Alabama	37	590,478	16,716,993	1,626,865.9	52,214
Alaska	32	28,791	572,961	108,193.0	265,799
American Samoa	1	12,328	153,306	47,719.7	177,350
Arizona	29	1,213,277	33,580,262	3,277,380.7	29,826,792
Arkansas	15	208,311	6,082,316	506,250.6	1,329,292
California	55	3,350,055	59,787,140	9,862,691.8	49,259,864
Colorado	30	483,463	9,159,688	947,642.2	6,508,481
Connecticut	9	76,193	1,826,033	236,355.0	14,108
Delaware	9	73,896	2,040,894	228,862.9	23,032
Florida	33	1,541,817	36,127,789	3,801,482.8	32,400,693
Georgia	52	347,339	12,866,509	1,218,323.1	11,930,360
Guam	1	52,264	1,554,967	324,234.4	1,649,905
Idaho	11	48,926	1,189,599	86,193.5	184,867
Illinois	42	277,935	6,491,834	758,438.2	4,074,758
Indiana	73	264,611	7,679,268	755,451.1	3,428,885
Iowa	136	222,318	5,450,315	510,902.1	1,463,123
Kansas	117	240,953	7,062,825	689,819.4	1,659,415
Kentucky	29	213,698	5,891,653	616,208.6	5,783
Louisiana	24	171,359	6,987,631	562,808.3	2,058,858
Maine	5	16,977	291,629	28,472.4	-
Maryland	5	34,873	698,578	64,357.2	-25
Massachusetts	42	418,926	7,363,727	1,040,409.9	2,033,443
Michigan	42	315,124	7,200,597	844,789.2	3,636,933
Minnesota	128	394,768	9,628,708	1,034,111.4	4,491,810
Mississippi	24	137,538	3,720,430	368,034.7	-
Missouri	87	447,986	10,755,330	1,073,668.7	8,293,792
Montana	1	1,052	16,655	1,223.0	-
Nebraska	145	1,069,135	31,507,820	2,770,148.5	28,312,679
Nevada	6	33,057	2,413,549	101,906.5	-
New Hampshire	5	12,642	186,241	26,614.4	-
New Jersey	9	64,745	1,180,512	182,719.4	97,404
New Mexico	7	87,179	1,906,337	187,059.3	873,074
New York	51	1,314,908	40,825,556	5,153,091.1	31,921,572
North Carolina	74	642,807	16,330,111	1,681,847.6	7,064,398
North Dakota	12	11,315	309,790	24,295.9	-
Northern Marianas	1	16,775	204,277	55,629.0	153,257
Ohio	85	387,784	9,810,707	1,107,415.7	9,443,550
Oklahoma	63	209,271	7,577,450	611,614.5	8,003,354
Oregon	18	315,062	9,905,804	728,020.3	387,325
Pennsylvania	35	87,026	1,441,228	184,443.1	14,041
Puerto Rico	1	1,485,261	16,269,416	3,642,199.2	11,452,025
Rhode Island	1	6,942	68,307	13,710.0	2
South Carolina	23	393,669	13,277,082	1,146,752.1	20,129,483
South Dakota	36	62,684	1,574,037	147,397.3	-
Tennessee	60	2,336,859	65,382,113	6,588,125.0	-
Texas	75	2,134,379	53,482,741	5,194,805.5	48,417,256
Utah	42	281,852	5,465,257	498,077.1	9,832,801
Vermont	15	57,387	753,104	114,269.4	214,204
Virgin Islands	1	56,307	617,607	225,240.0	671,848
Virginia	17	170,059	4,155,985	430,656.0	29,218
Washington	42	1,864,027	49,442,245	3,922,465.8	42,453,087
West Virginia	2	3,627	65,975	7,388.0	-
Wisconsin	83	300,180	7,553,280	714,903.9	1,628,193
Wyoming	14	37,087	646,934	69,446.5	234,071
TOTAL	1,992	24,627,282	603,251,102	66,151,131	386,102,374

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

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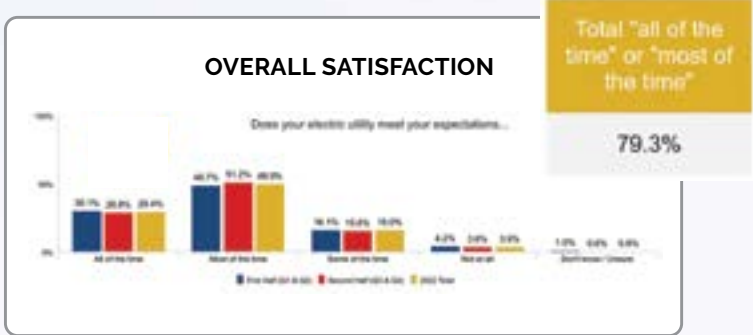
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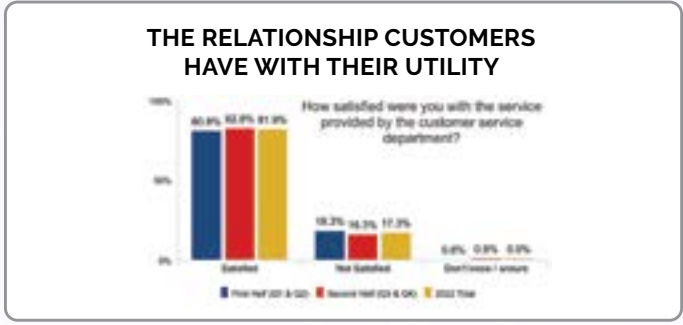
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THE UTILITY'S ABILITY TO MEET CUSTOMER EXPECTATIONS

Expectation	Percentage
Providing a consistent and reliable power supply to customers	75.4
Resolving power outages as quickly as a reasonable amount of time	75.0
Providing a consistent and reliable power supply to customers	66.0
Communicating with customers	67.9
Providing a consistent and reliable power supply to customers	67.7
Providing a consistent and reliable power supply to customers	67.6
Providing a consistent and reliable power supply to customers	66.3
Providing good service and value for the cost of electricity	63.8
Providing a consistent and reliable power supply to customers	63.1



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