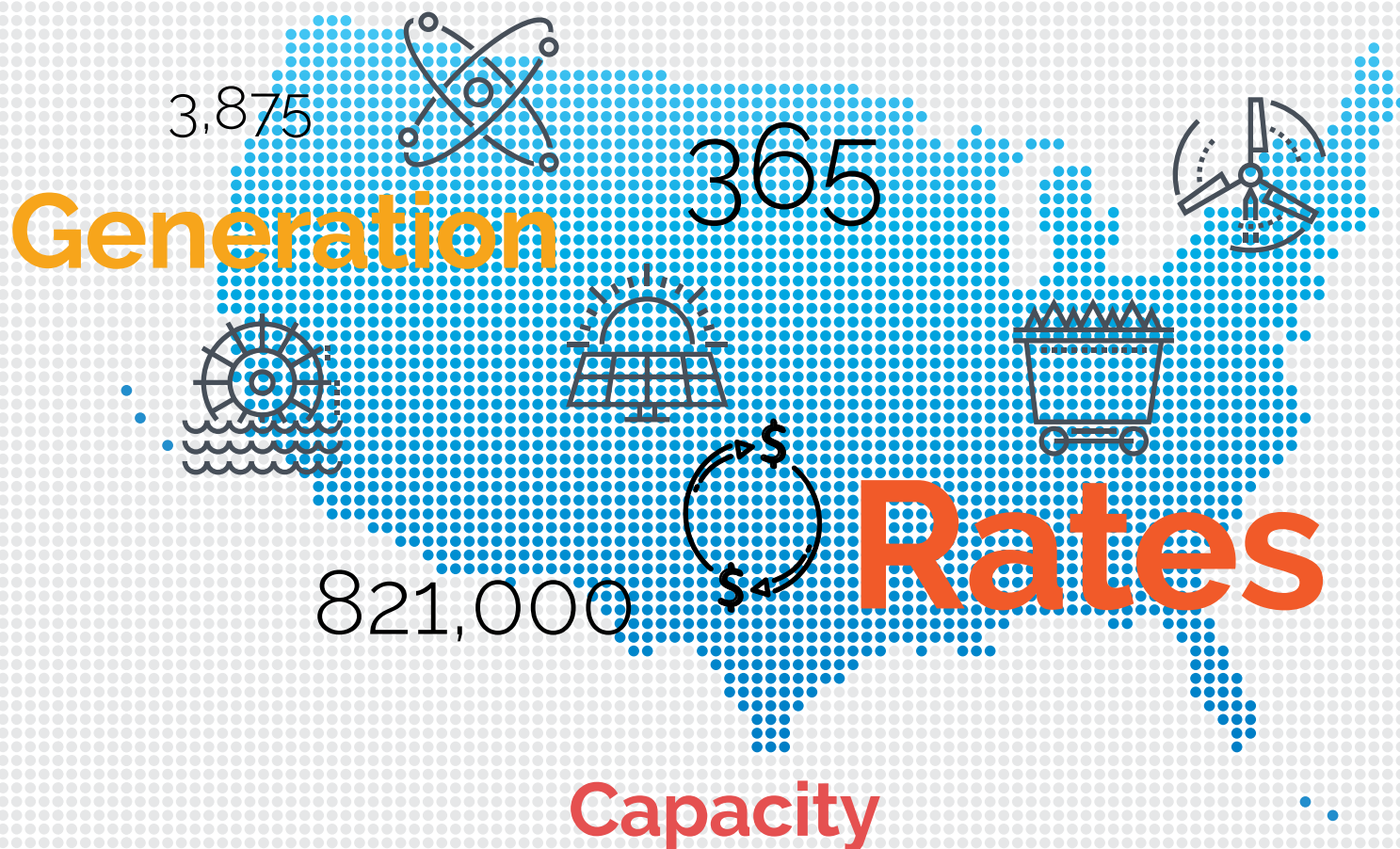


# 2020 Statistical Report

A supplement of Public Power magazine



# PUBLIC POWER DATA SOURCE

powered by

greatblue



WHAT'S NEXT.

ACTIONABLE DATA  
AND CUSTOMER  
INSIGHTS FOR  
PUBLIC POWER

Learn more and subscribe at  
[PublicPower.org/Resource/  
Public-Power-Data-Source](https://PublicPower.org/Resource/Public-Power-Data-Source)

AMERICAN  
**PUBLIC  
POWER**  
ASSOCIATION

Powering Strong Communities

# Table of Contents

Making Sense of Utility Industry Data .....	1
---	---

<b>Generation .....</b>	<b>3</b>
U.S. Electric Generating Capacity by Fuel Type, 2018 .....	3
U.S. Electric Generating Capacity by Utility Type and Fuel Type, 2018 .....	4
U.S. Electric Generation by Fuel Type, 2018 .....	5
2018 Generation by Public Power Utilities .....	6
2018 Generation by Fuel Type, Public Power Utilities .....	7
Renewable Capacity by Owner Type .....	8
Generation from Renewable Energy by Fuel Type, 2018 .....	8

<b>Industry Statistics .....</b>	<b>9</b>
Distribution of Public Power Utilities by Customer Count .....	9
Distribution of Public Power Utilities by Revenue Class .....	9
Number of Customers .....	10
Number of Electricity Providers .....	10
Map: Where is Public Power? .....	11
Sales to Ultimate Customers .....	13
Electric Revenues from Sales to Ultimate Customers .....	13

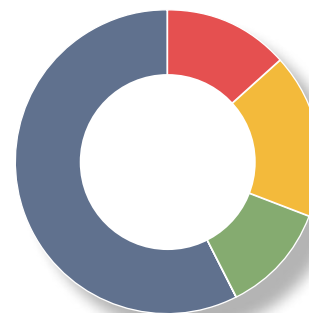
<b>Generation .....</b>	<b>14</b>
100 Largest Public Power Utilities By Electric Customers Served, 2018 .....	14
100 Largest Public Power Utilities By Megawatt-hour Sales, 2018 .....	15
100 Largest Public Power Utilities By Electric Revenues, 2018 .....	16
100 Largest Public Power Systems Ranked by Generation, 2018 .....	17

<b>Public Power Pays Back .....</b>	<b>18</b>
-------------------------------------	-----------

<b>Public Power Costs Less .....</b>	<b>20</b>
Utility Sector Rate Comparison by State, 2018 .....	21

<b>Sales and Revenue .....</b>	<b>22</b>
Average Retail Electric Rates, by Utility Type .....	22
Trends in Average revenue per kilowatt-hour, national vs public power .....	22

<b>Public Power Data by State, 2018 .....</b>	<b>23</b>
---	-----------



For infographics, fact sheets, and other materials with statistics you can share for public education, go to [PublicPower.org](http://PublicPower.org) and look under Members and Communication Templates

# Making Sense of Utility Industry Data

**T**he Public Power Statistical Report is a central source for American Public Power Association members to find statistics from APPA and state and federal agencies that detail key aspects of how public power is distinguished from – or similar to – the rest of the electric utility industry.

This report focuses on the key graphs, tables, and data visualizations that our members regularly draw from to inform their benchmarking or marketing efforts. Additional detailed charts, reports, and data, such as reliability and safety measures, are available on our website and various other channels.

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

## Curated information for public power

- The “Stats and Facts” page on our website highlights key industry information and comparisons and links to statistical reports and documents, including this report and the Average Revenue per Kilowatt-Hour report on every electric utility in the country. [www.PublicPower.org/Public-power/stats-and-facts](http://www.PublicPower.org/Public-power/stats-and-facts)
- Our Product Store also links to other statistical reports available to members for free or at a low cost, including our report on salaries and hourly pay in publicly owned utilities, the report on financial and operating ratios of public power utilities, and 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. <https://ebiz.publicpower.org/APPAEbiz/productcatalog/productdefault.aspx>
- A primary source for much of the data in these reports is the Energy Information Administration. EIA gathers data from all segments of the energy sector through several surveys, the results of which are all available for download on its website. Form EIA-861 is a mandatory survey for all electric utilities on sales, revenue, generation, reliability, net metered customers, energy efficiency and demand response programs, and other basic operational data. EIA also collects data on generating capacity (Form EIA-860), generation (Form EIA-923), balancing authorities (Form EIA-930), and other more targeted surveys. EIA produces annual and monthly reports based on the information it collects, including long- and short-term energy outlooks, which summarize these projections. EIA’s website also has an interactive tool to dig deeper into energy statistics. [www.eia.gov](http://www.eia.gov)
- The Federal Energy Regulatory Commission collects data related to wholesale power markets. FERC Form 1 also collects financial data on all investor-owned utilities, including operations and maintenance costs, salaries of major employees, and other financial information. Larger wholesale electricity sellers must report cost-based sales, market-based rates, and other transactional information in the Electric Quarterly Report. [www.ferc.gov/docs-filing/forms.asp](http://www.ferc.gov/docs-filing/forms.asp)
- Though not specifically geared to the energy industry, a great source of information is the Census Bureau. As an example of how we use its data, according to the Census Bureau, the number of people per household in the United States is 2.58. Using EIA data, we also know that public power utilities serve just under 19 million residential customer meters in the United States. Multiplying those two numbers, we get 49 million, which is the estimated number of people served by a public power utility. Utilities can find information on their service area by searching by city or zip code. [www.census.gov](http://www.census.gov)

## Additional expert analysis

There are other discrete sources of information for industry data.

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

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

There are many resources available to find energy and electric industry data, and it can be confusing to navigate precisely where to go and for what information. 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](mailto:Statistics@PublicPower.org).

## Enterprise Software Solutions

NISC's robust enterprise software features full integration across solutions such as billing & customer service, accounting, engineering & operations, meter data management, operations analytics, business intelligence, payment channels and mobile apps.

**Streamline your utility business.**

**Reduce operational costs. Increase efficiency.**



[www.nisc.coop](http://www.nisc.coop)

national information solutions cooperative

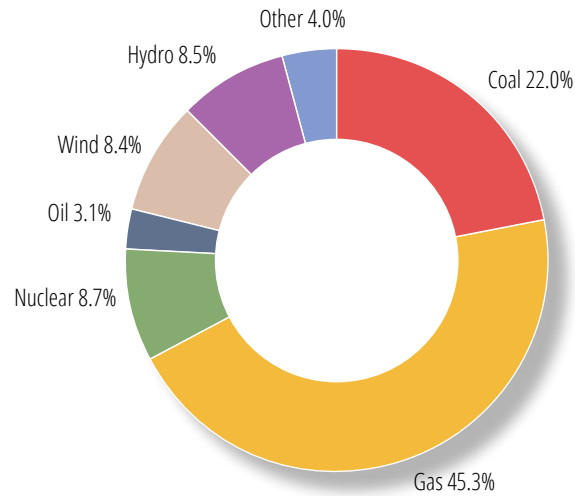
# Generation

## U.S. Electric Generating Capacity by Fuel Type, 2018

### National

Nameplate capacity in megawatts

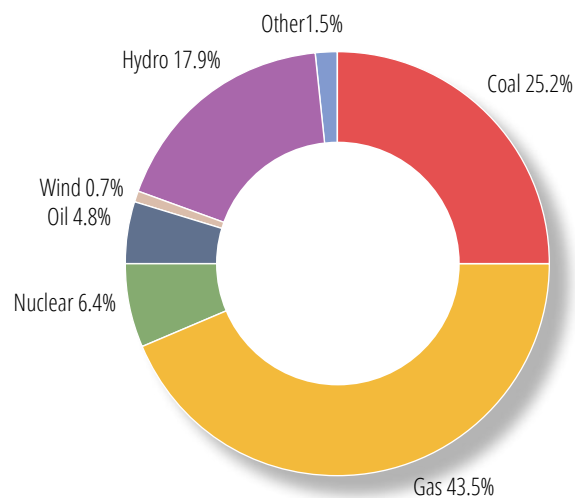
	MW	Percent of Total
Coal	263,570	22.0%
Gas	542,762	45.3%
Nuclear	104,270	8.7%
Oil	36,896	3.1%
Wind	100,483	8.4%
Hydro	101,786	8.5%
Other	47,634	4.0%



### Public Power

Nameplate capacity in megawatts. Data reflect joint ownership.

	MW	Percent of Total
Coal	31,179	25.2%
Gas	53,792	43.5%
Nuclear	7,975	6.4%
Oil	5,929	4.8%
Wind	838	0.7%
Hydro	22,130	17.9%
Other	1,903	1.5%





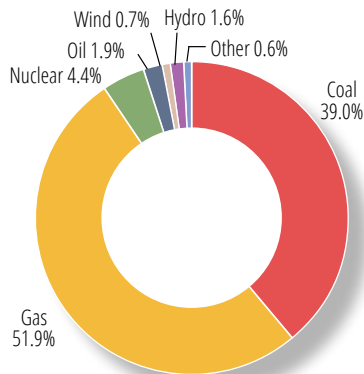
# Generation

## U.S. Electric Generating Capacity by Utility Type and Fuel Type, 2018

Nameplate capacity in megawatts. Data reflect joint ownership.

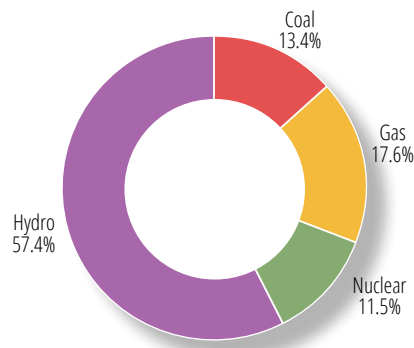
### Cooperative

	MW	Percent of Total
Coal	25,299	39.0%
Gas	33,669	51.9%
Nuclear	2,858	4.4%
Oil	1,220	1.9%
Wind	433	0.7%
Hydro	1,023	1.6%
Other	389	0.6%



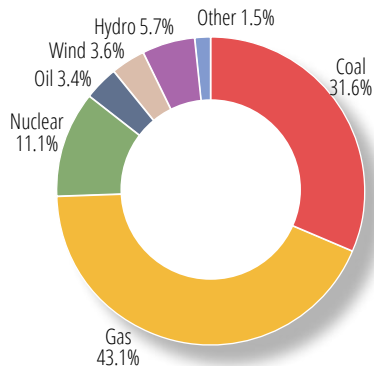
### Federal

	MW	Percent of Total
Coal	9,841	13.4%
Gas	12,949	17.6%
Nuclear	8,475	11.5%
Oil	62	0.1%
Wind	14	0.0%
Hydro	42,340	57.4%
Other	27	0.0%



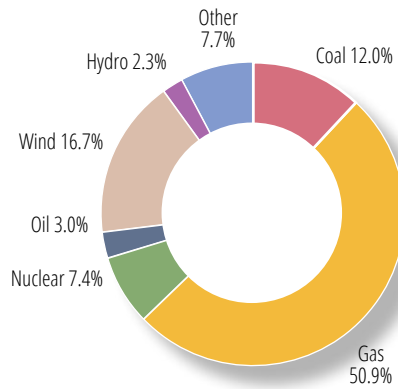
### Investor-Owned

	MW	Percent of Total
Coal	137,069	31.6%
Gas	187,024	43.1%
Nuclear	47,979	11.1%
Oil	14,817	3.4%
Wind	15,501	3.6%
Hydro	24,599	5.7%
Other	6,566	1.5%



### Non-Utility Generators

	MW	Percent of Total
Coal	60,182	12.0%
Gas	255,328	50.9%
Nuclear	36,983	7.4%
Oil	14,869	3.0%
Wind	83,697	16.7%
Hydro	11,693	2.3%
Other	38,750	7.7%



Source: Energy Information Administration Form EIA-860, 2018 data, including adjustments for joint ownership.

# Generation

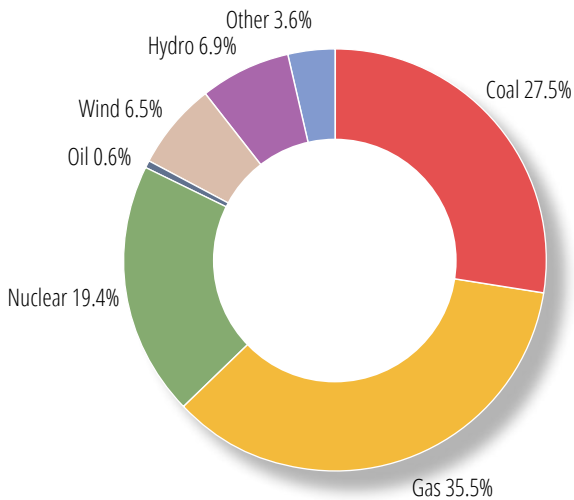
## U.S. Electric Generation by Fuel Type, 2018

### National

In thousands of megawatt-hours

	MWh	Percent of Total
Coal	1,145,820	27.5%
Gas	1,482,310	35.5%
Nuclear	807,084	19.4%
Oil	25,226	0.6%
Wind	272,650	6.5%
Hydro	286,619	6.9%
Other	151,181	3.6%

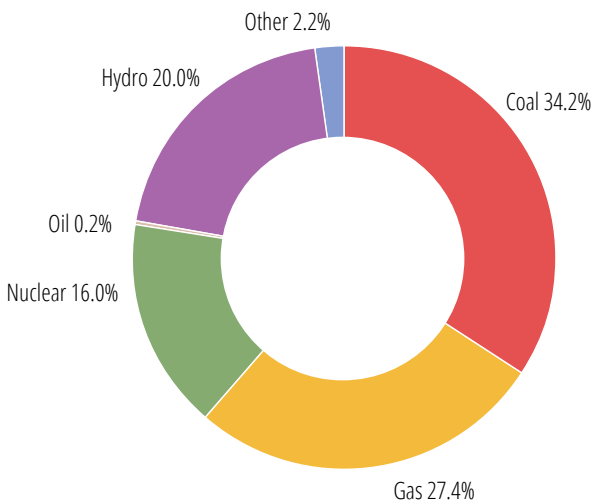
Source: Energy Information Administration Form EIA-912, 2018 data.



### Public Power

In thousands of megawatt-hours

	MWh	Percent of Total
Coal	131,537,573	34.2%
Gas	105,327,317	27.4%
Nuclear	61,543,535	16.0%
Oil	728,431	0.2%
Hydro	76,986,000	20.0%
Other	8,543,877	2.2%





# Generation

## 2018 Generation by Public Power Utilities

Source: Ventyx Velocity Suite, October 2019

Census Regions	Generation, in MWhs						Total
	Coal	Oil	Gas	Nuclear	Hydro	Other	
New England - Mid Atlantic	-	212,013	3,735,003	3,524,569	24,783,585	778,903	33,034,073
South Atlantic	23,653,205	155,871	35,659,599	20,763,412	846,780	2,859,027	83,937,894
East South Central - West South Central	34,098,021	35,025	21,503,638	11,585,074	2,043,713	47,137	69,312,608
East North Central - West North Central	39,510,270	104,626	6,096,652	6,912,737	1,282,537	1,103,370	55,010,192
Mountain	34,276,077	56,362	16,359,703	9,049,302	1,324,449	369,768	61,435,661
Pacific	-	164,534	21,972,722	9,708,441	46,704,936	3,385,672	81,936,305
Total	131,537,573	728,431	105,327,317	61,543,535	76,986,000	8,543,877	384,666,733

Census Region	States
New England.....	CT, MA, ME, NH, RI, and VT
Mid-Atlantic.....	NJ, NY, and PA
South Atlantic.....	DC, DE, FL, GA, MD, NC, SC, VA, and WV
East South Central.....	AL, KY, MS, and TN
West South Central.....	AR, LA, OK, and TX

Census Region	States
East North Central.....	IL, IN, MI, OH, and WI
West North Central.....	IA, KS, MN, MO, ND, NE, and SD
Mountain.....	AZ, CO, ID, MT, NM, NV, UT, WY
Pacific.....	AK, CA, HI, OR, and WA





**INSPECTION  
SERVICES**

# Safe and Efficient Asset Evaluation from the Industry Experts

GIS Mapping

•

Advanced Analytics

•

Detailed Reporting

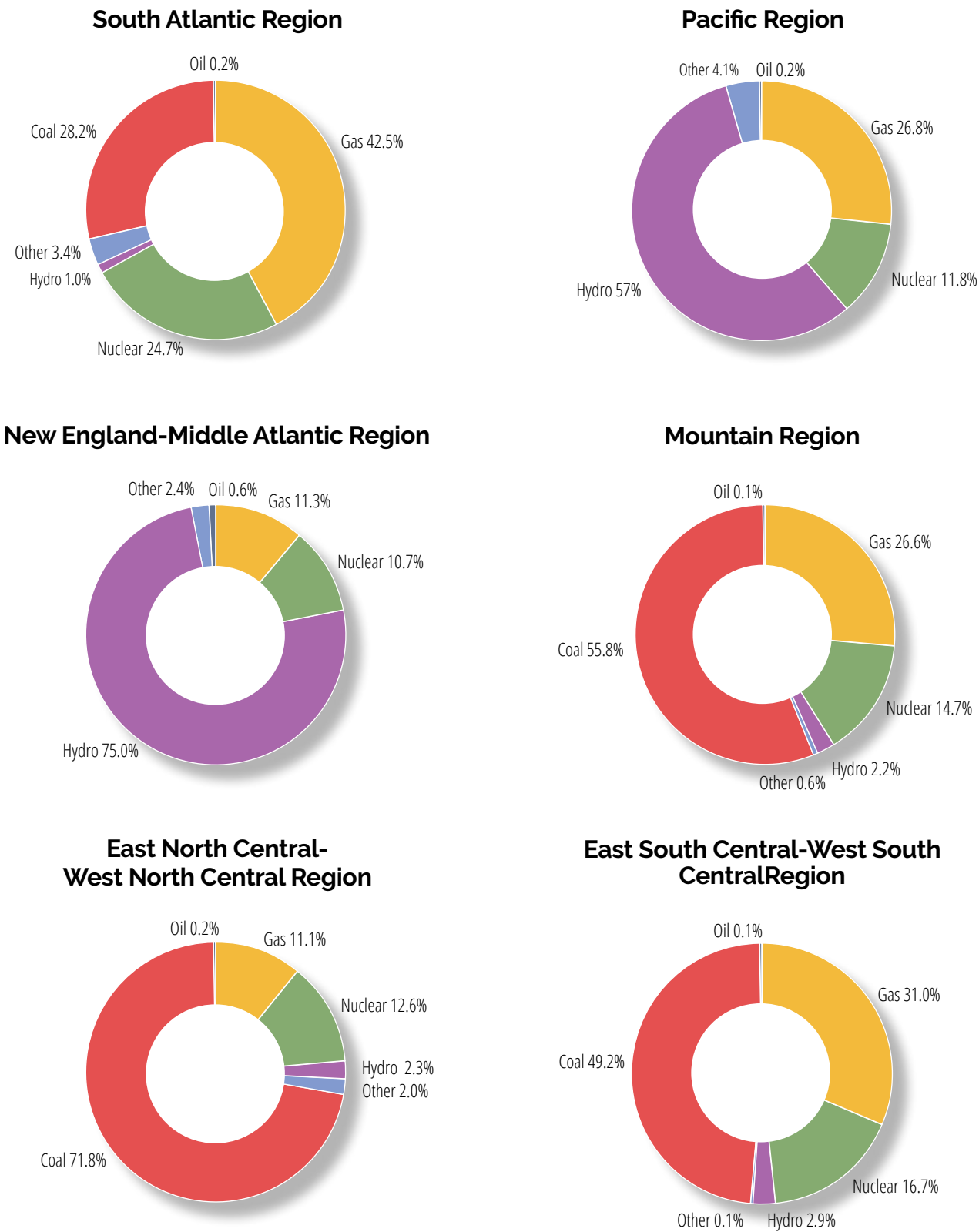
•

Actionable Data

preformed.com

# Generation

## 2018 Generation by Fuel Type, Public Power Utilities



# Generation

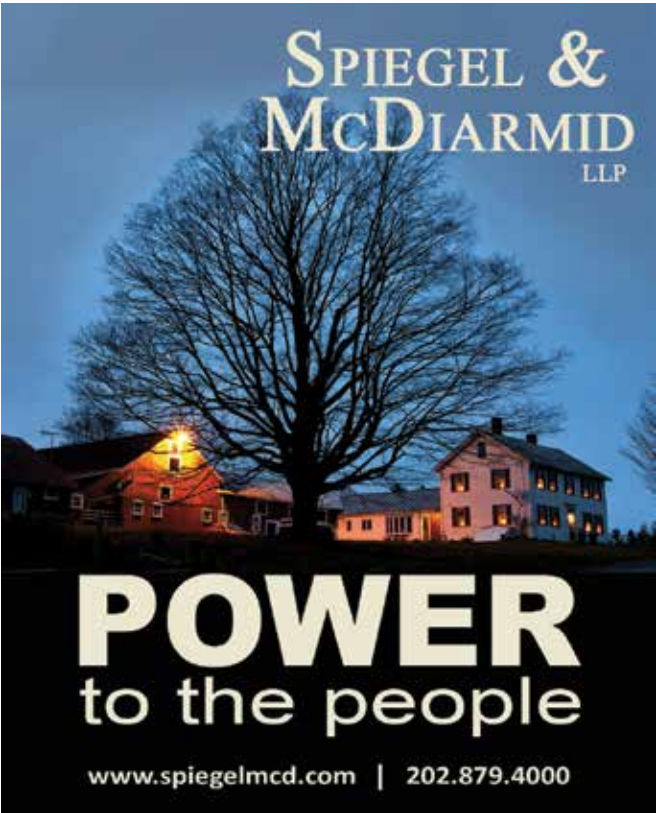
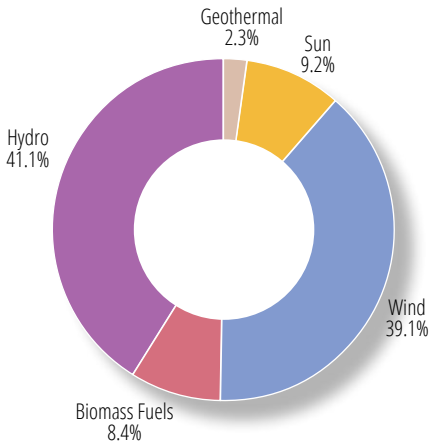
## Renewable Capacity by Owner Type

Nameplate capacity, in megawatts

	Cooperative	Federal	Investor-Owned	Public Power	Non-Utility Generators	Total
Geothermal	3.7		44.8	220.0	3,537.5	3,806.0
Sun (Photovoltaic, Thermal)	72.5	4.1	5,885.6	174.2	31,002.5	37,138.9
Wind	432.8	13.9	15,501.2	838.0	83,697.1	100,483.0
Biomass Fuels						
Agricultural Crop Byproducts					288.1	288.1
Black Liquor				106.4	4992.0	5,098.4
Landfill Gas	118.6		23.9	286.2	1754.8	2,183.5
Municipal Solid Waste	48.0		212.9	653.2	2007.0	2,921.1
Other Biomass Gases		1.9		202.1	165.9	369.9
Other Biomass Liquids			163.4	2	10.0	175.4
Other Biomass Solids					21.3	21.3
Wood Waste Liquids					64.0	64.0
Wood/Wood Waste Solids	49.9	20.8	898.9	319.1	3,958.2	5,246.9
Hydro	1,023.3	42,339.8	24,599.2	22,130.0	11,693.3	101,785.5
<b>Total Renewable Fuels</b>	<b>1,748.8</b>	<b>42,380.5</b>	<b>47,329.9</b>	<b>24,931.2</b>	<b>143,191.7</b>	<b>259,582.0</b>

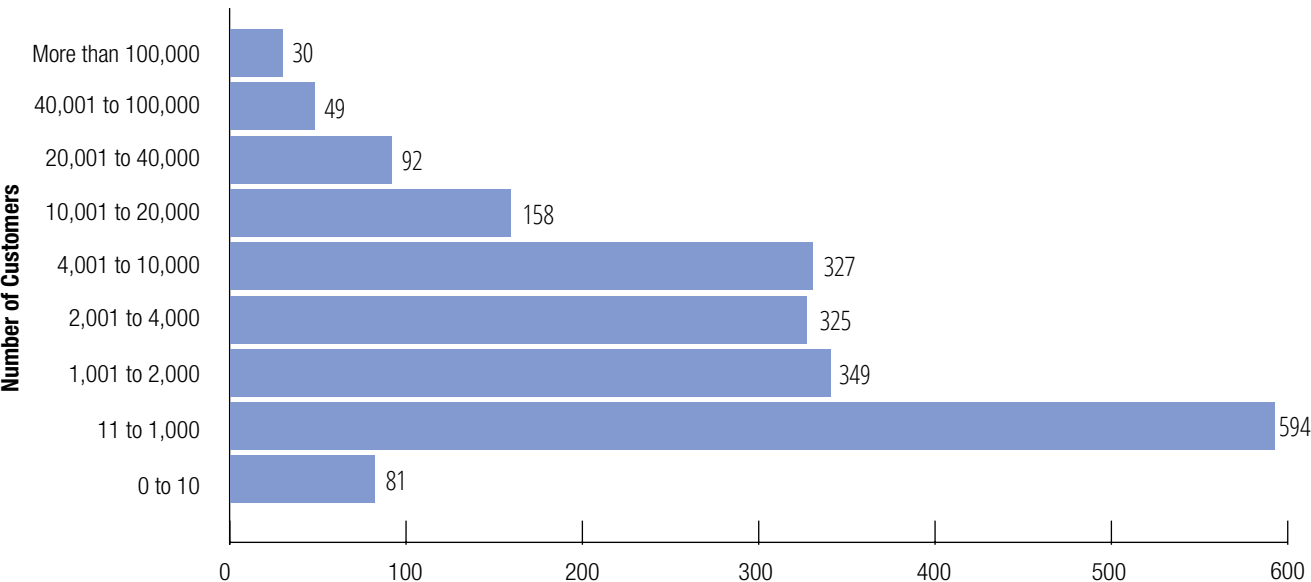
## Generation from Renewable Energy by Fuel Type, 2018

	000 MWh	Percent
Geothermal	15,967	2.3%
Sun	63,825	9.2%
Wind	272,650	39.1%
Biomass Fuels	58,416	8.4%
Hydro	286,619	41.1%
<b>Total</b>	<b>697,477</b>	



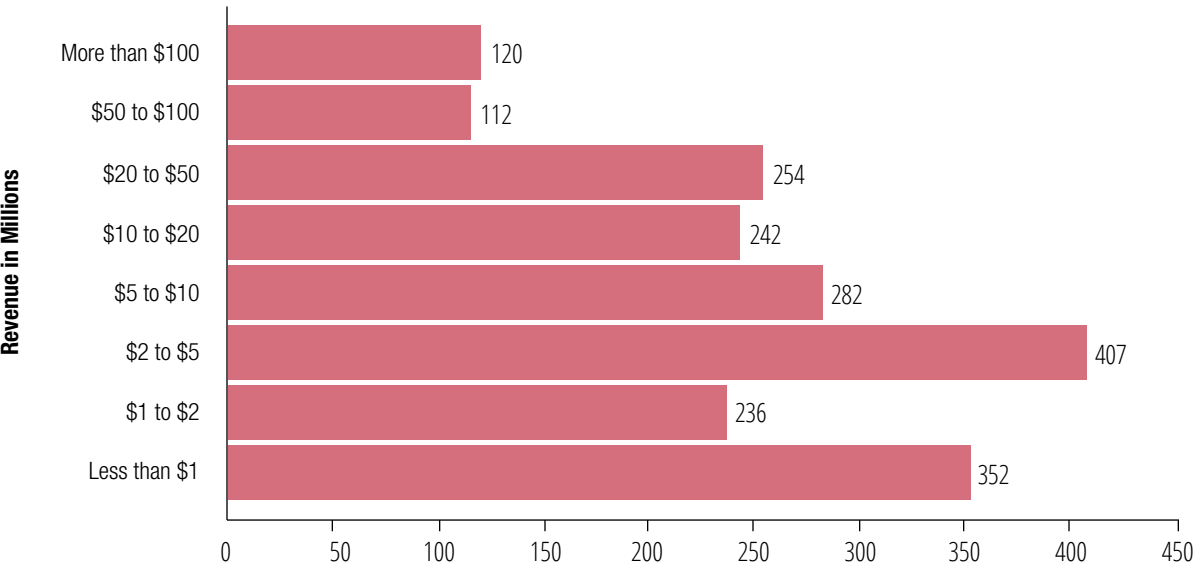
# Industry Statistics

## Distribution of Public Power Utilities by Customer Count



*Note: Utilities with less than 10 customers include joint action agencies and other wholesale entities.*

## Distribution of Public Power Utilities by Revenue Class



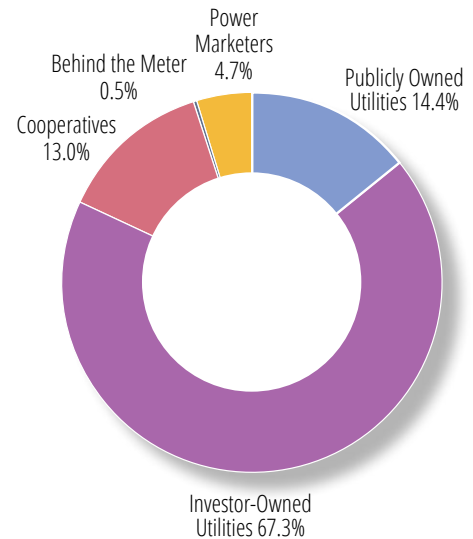
# Industry Statistics

## Number of Customers

	Full-Service Customers	Delivery-Only Customers	Total	Percent of Total
Publicly Owned Utilities	22,344,969	4,108	22,349,077	14.4%
Investor-Owned Utilities	90,863,040	13,350,476	104,213,516	67.3%
Cooperatives	20,178,765	6,797	20,185,562	13.0%
Federal Power Agencies	38,290		38,290	0.0%
Behind the Meter	745,321		745,321	0.5%
Power Marketers	7,263,548		7,263,548	4.7%
<b>TOTAL</b>	<b>141,433,933</b>	<b>13,361,381</b>	<b>154,795,314</b>	

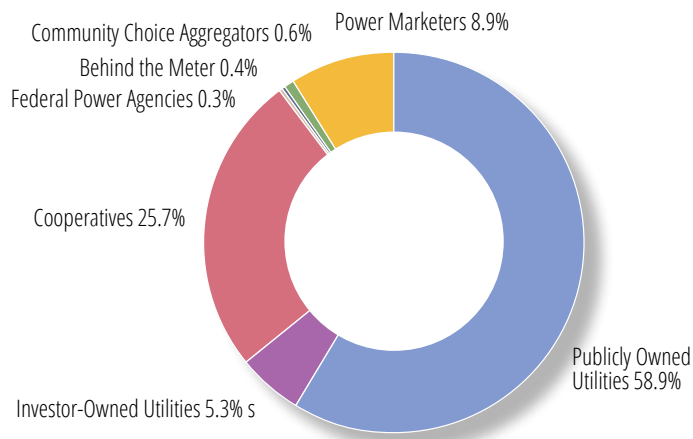
Delivery-only customers represent the number of customers in a utility's service territory that purchase energy from an alternative supplier. Nearly all of power marketers' full-service customers are in Texas. Behind the Meter entities install, own, and/or operate systems (usually solar PV), and sell, under a long term purchase power agreement (PPA) or lease, all the production from the system to the homeowner or business with which there is a net metering agreement.

Source: Energy Information Administration Forms EIA-861 and 861S, 2018. Does not include U.S. territories.



## Number of Electricity Providers

	Number of Utilities	Percent of Total
Publicly Owned Utilities	2,005	58.9%
Investor-Owned Utilities	179	5.3%
Cooperatives	873	25.7%
Federal Power Agencies	10	0.3%
Behind the Meter	15	0.4%
Community Choice Aggregators	19	0.6%
Power Marketers	302	8.9%
<b>TOTAL</b>	<b>3,403</b>	



**Dependable utility consulting...backed by experience and innovation.**

**GDS Associates, Inc.**  
ENGINEERS & CONSULTANTS

Since **1986**, GDS Associates has been providing quality engineering and energy consultant services throughout the U.S.

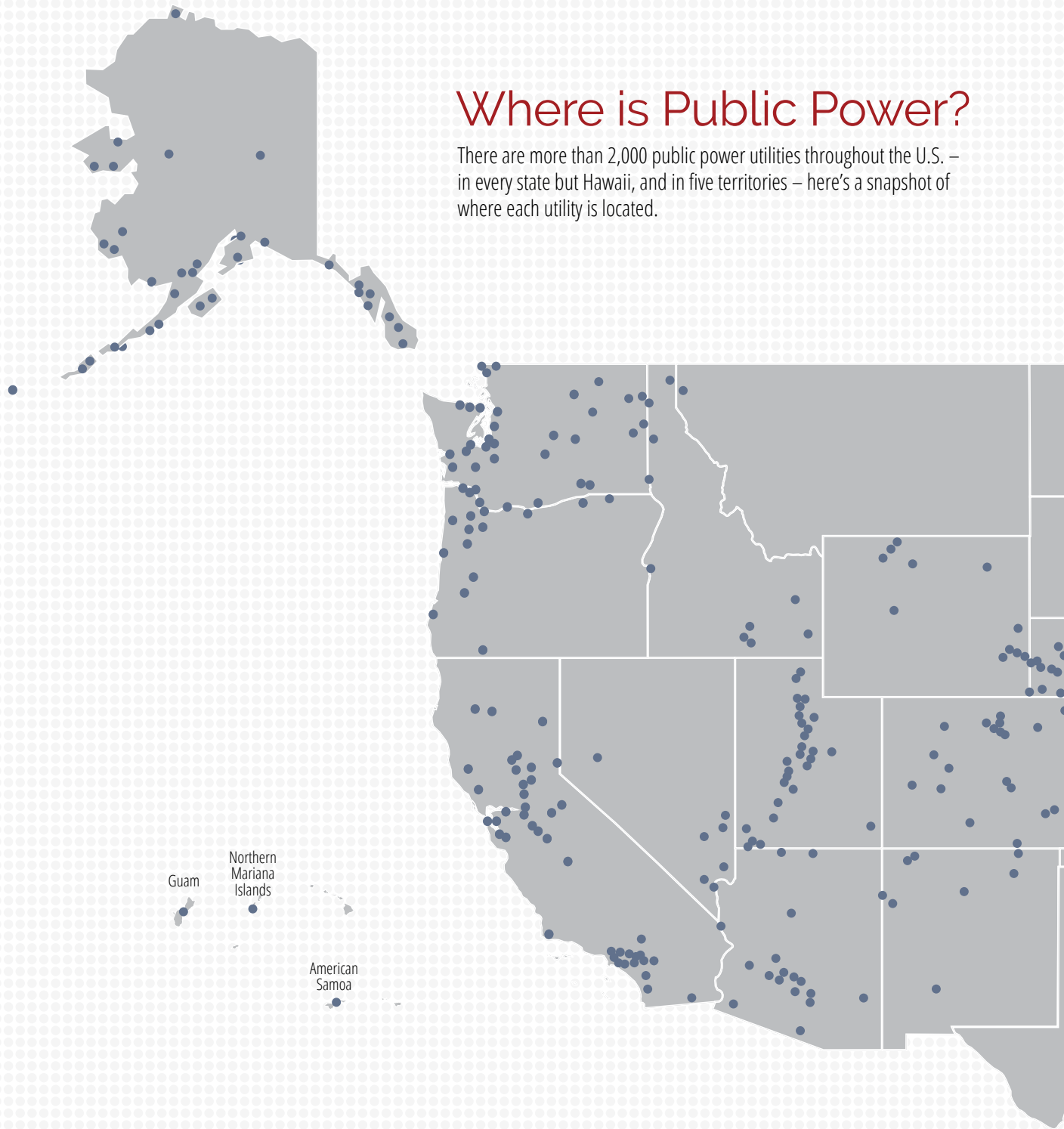
Energy Supply | Energy Use & Efficiency | Utility Distribution Services  
Transmission Services | Rates, Regulatory & Financial | Environment & Safety

**gdsassociates.com | 770.425.8100**

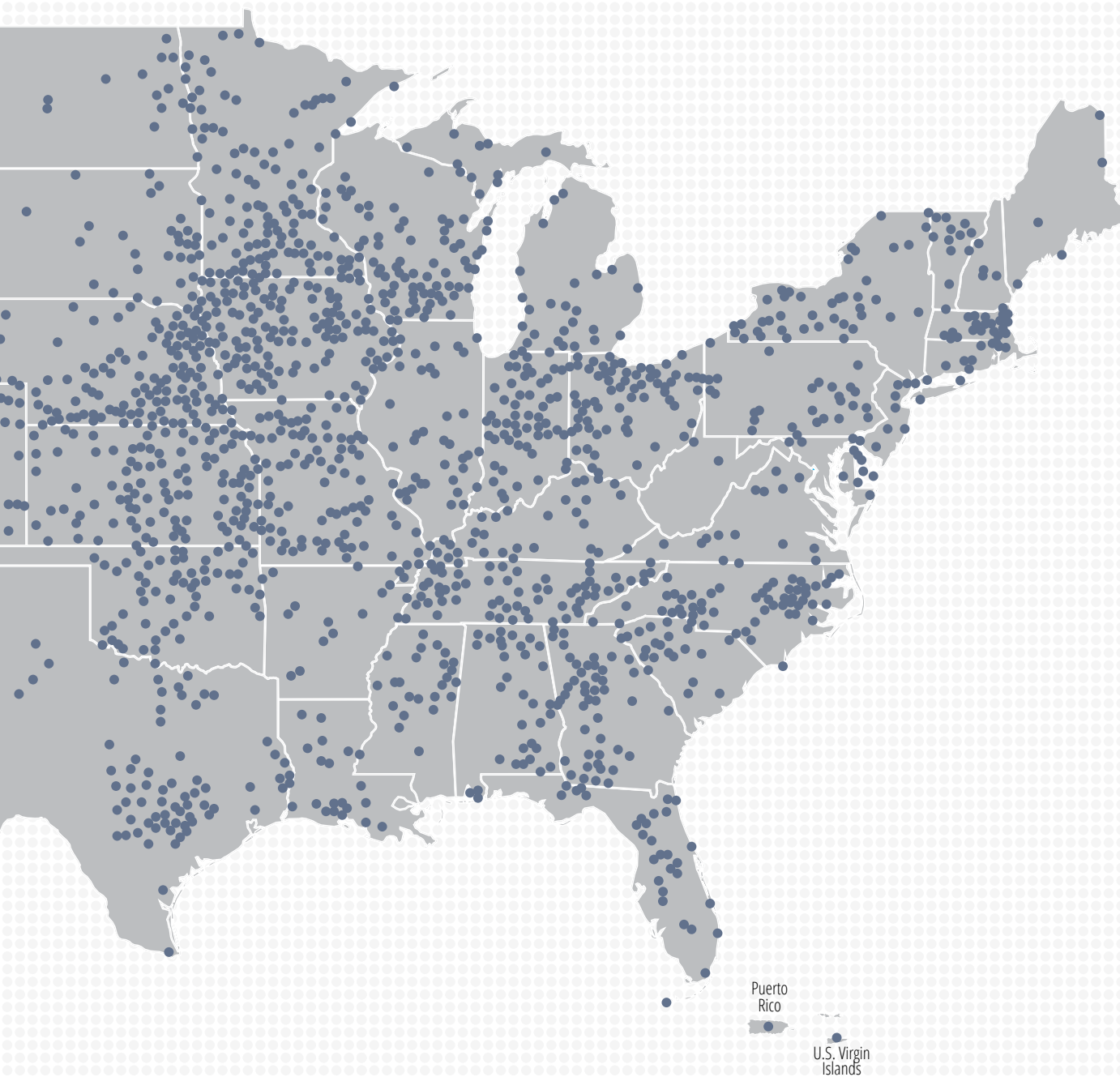
Twitter Facebook LinkedIn Instagram

## Where is Public Power?

There are more than 2,000 public power utilities throughout the U.S. – in every state but Hawaii, and in five territories – here's a snapshot of where each utility is located.







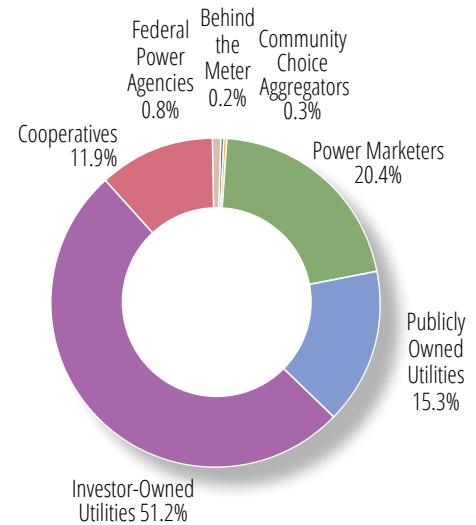


# Industry Statistics

## Sales to Ultimate Customers

In thousands of megawatt-hours

	Full-Service Sales	Energy-Only Sales	Total	Percent of Total
Publicly Owned Utilities	571,163	18,315	589,478	15.3%
Investor-Owned Utilities	1,977,928	20	1,977,948	51.2%
Cooperatives	459,735	1,354	461,089	11.9%
Federal Power Agencies	29,148	-	29,148	0.8%
Behind the Meter	7,037	-	7,037	0.2%
Community Choice Aggregators	-	11,426	11,426	0.3%
Power Marketers	259,308	528,612	787,921	20.4%
<b>TOTAL</b>	<b>3,304,319</b>	<b>559,727</b>	<b>3,864,046</b>	



Energy-only sales represent a utility's sales of energy outside of its own service territory. The Energy Information Administration collects data on both the energy portion and delivery portion of unbundled (retail choice) sales. Delivery-only sales are not shown here as it would result in double counting. Total sales show how much energy, via either full service or energy-only sales, that each sector sells to ultimate customers.

## Electric Revenues from Sales to Ultimate Customers

In millions of dollars

	Full-Service Sales	Energy-Only Sales	Delivery-Only Sales	Total	Percent of Total
Publicly Owned Utilities	\$59,825	\$994	\$107	\$60,926	14.9%
Investor-Owned Utilities	\$213,256	\$3	\$25,983	\$239,242	58.4%
Cooperatives	\$48,103	\$71	\$15	\$48,189	11.8%
Federal Power Agencies	\$1,082	\$0	\$0	\$1,082	0.3%
Behind the Meter	\$1,063	\$0	\$0	\$1,063	0.3%
Community Choice Aggregators	\$0	\$1,734	\$0	\$1,734	0.4%
Power Marketers	\$21,710	\$35,715	\$0	\$57,425	14.0%
<b>TOTAL</b>	<b>\$345,038</b>	<b>\$38,518</b>	<b>\$26,105</b>	<b>\$409,661</b>	

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 percent of power marketers' full-service sales and revenues occur in Texas.

Source: Energy Information Administration Forms EIA-861 and 861S, 2018. Does not include U.S. territories.

# Generation

## 100 Largest Public Power Utilities By Electric Customers Served, 2018

Ultimate customers served

1	Puerto Rico Electric Power Authority	PR	1,473,230	51	Roseville Electric	CA	60,215
2	Los Angeles Department of Water & Power	CA	1,435,572	52	Naperville Department of Public Utilities	IL	59,683
3	Long Island Power Authority	NY	1,131,776	53	Bryan Texas Utilities	TX	59,586
4	Salt River Project	AZ	1,060,016	54	Independence Power & Light	MO	58,470
5	CPS Energy	TX	832,590	55	Virgin Islands Water & Power Authority	VI	56,450
6	Sacramento Municipal Utility District	CA	627,845	56	Silicon Valley Power	CA	55,234
7	Austin Energy	TX	487,929	57	Sevier County Electric System	TN	54,962
8	JEA	FL	467,084	58	Rochester Public Utilities	MN	54,726
9	Seattle City Light	WA	461,523	59	Denton Municipal Electric	TX	53,920
10	Memphis Light, Gas and Water Division	TN	416,433	60	Benton PUD	WA	53,744
11	Nashville Electric Service	TN	402,989	61	Ocala Utility Services, City of	FL	53,485
12	Omaha Public Power District	NE	380,307	62	Burbank Water and Power	CA	53,110
13	Snohomish County, Public Utility District No. 1 of	WA	350,467	63	Guam Power Authority	GU	51,372
14	Orlando Utilities Commission	FL	241,638	64	Cowlitz County, Public Utility District No. 1 of	WA	50,751
15	Colorado Springs Utilities	CO	231,570	65	Grant County, Public Utility District No. 2 of	WA	50,688
16	Clark Public Utilities	WA	208,717	66	Chelan County Public Utility District No. 1	WA	50,456
17	Knoxville Utilities Board	TN	203,571	67	Columbia Water & Light	MO	50,233
18	Santee Cooper (South Carolina Public Service Authority)	SC	185,144	68	Florence Utilities	AL	49,637
19	Huntsville Utilities	AL	184,856	69	Brownsville Public Utilities Board	TX	49,516
20	Tacoma Public Utilities	WA	177,725	70	Riviera Utilities	AL	48,151
21	EPB - Chattanooga Electric Power Board	TN	173,655	71	Danville Department of Utilities	VA	48,069
22	IID Energy	CA	155,516	72	Athens, City of	AL	46,972
23	Lincoln Electric System	NE	140,028	73	Farmington, City of	NM	44,828
24	Lakeland Electric	FL	130,659	74	Redding, City of	CA	43,967
25	Modesto Irrigation District	CA	127,926	75	College Station, City of	TX	43,141
26	Anaheim Public Utilities	CA	119,401	76	Grays Harbor County, Public Utility District No. 1 of	WA	42,953
27	Tallahassee Electric Utility, City of	FL	117,138	77	New Braunfels Utilities	TX	42,535
28	Springfield, City Utilities of	MO	115,823	78	Marietta Board of Lights & Water	GA	41,595
29	Riverside Public Utilities, City of	CA	109,618	79	High Point, City of	NC	41,398
30	Lubbock Power & Light	TX	106,069	80	Edmond, City of	OK	40,469
31	Turlock Irrigation District	CA	102,950	81	Longmont Power & Communications	CO	40,175
32	Gainesville Regional Utilities	FL	97,681	82	Central Lincoln People's Utility District	OR	39,181
33	Lansing Board of Water & Light	MI	97,651	83	Rock Hill, City of	SC	38,900
34	Eugene Water & Electric Board	OR	93,962	84	Taunton Municipal Lighting Plant	MA	38,728
35	Nebraska Public Power District	NE	90,507	85	North Little Rock, City of	AR	38,650
36	Glendale Water & Power	CA	88,849	86	Greeneville Light & Power System	TN	38,346
37	Fayetteville Public Works Commission	NC	81,991	87	Jonesboro City Water & Light	AR	37,485
38	BrightRidge	TN	78,608	88	Albany Water, Gas & Light Commission	GA	37,083
39	Fort Collins Utilities	CO	74,585	89	Provo City Power	UT	37,026
40	Kissimmee Utility Authority	FL	73,968	90	Loveland Water & Power	CO	36,984
41	Cleveland Public Power	OH	73,711	91	Jackson Energy Authority	TN	36,348
42	Springfield City Water, Light & Power	IL	71,545	92	Vero Beach, City of	FL	35,821
43	Garland, City of	TX	70,964	93	Anderson Municipal Light & Power	IN	35,602
44	CDE Lightbrand	TN	70,501	94	Alameda Municipal Power	CA	35,329
45	Greenville Utilities Commission	NC	67,704	95	Dickson Electric System	TN	35,138
46	Lafayette Utilities System	LA	67,244	96	Beaches Energy Services	FL	34,878
47	Lenoir City Utilities Board	TN	65,912	97	Wilson Energy	NC	34,496
48	Kansas City Board of Public Utilities	KS	65,639	98	Mason County Public Utility District No. 3	WA	33,841
49	Pasadena Water and Power Department	CA	64,574	99	Bristol Tennessee Essential Services	TN	33,659
50	Murfreesboro Electric Department	TN	64,096	100	Springfield Utility Board	OR	32,057

# Sales and Revenue

## 100 Largest Public Power Utilities By Megawatt-hour Sales, 2018

Sales to ultimate customers and sales for resale.

1	New York Power Authority	NY	38,132,992	51	Silicon Valley Power	CA	3,600,790
2	Salt River Project	AZ	37,909,050	52	IID Energy	CA	3,543,881
3	CPS Energy	TX	31,409,469	53	Douglas County, Public Utility District No. 1 of	WA	3,434,238
4	Santee Cooper (South Carolina Public Service Authority)	SC	23,717,366	54	Michigan Public Power Agency	MI	3,371,152
5	Los Angeles Department of Water & Power	CA	22,450,477	55	Utah Associated Municipal Power Systems	UT	3,344,156
6	Nebraska Public Power District	NE	20,025,515	56	Modesto Irrigation District	CA	3,336,098
7	Long Island Power Authority	NY	17,732,213	57	Turlock Irrigation District	CA	3,315,619
8	Omaha Public Power District	NE	16,608,737	58	Alabama Municipal Electric Authority	AL	3,229,206
9	Puerto Rico Electric Power Authority	PR	16,374,167	59	Lafayette Utilities System	LA	3,185,139
10	Chelan County Public Utility District No. 1	WA	15,233,084	60	Massachusetts Municipal Wholesale Electric Co.	MA	3,183,849
11	American Municipal Power	OH	15,001,620	61	Lakeland Electric	FL	3,130,002
12	Austin Energy	TX	14,590,662	62	Anaheim Public Utilities	CA	3,099,526
13	Lower Colorado River Authority	TX	14,019,192	63	Southern Minnesota Municipal Power Agency	MN	3,017,452
14	Memphis Light, Gas and Water Division	TN	13,991,609	64	Oklahoma Municipal Power Authority	OK	2,907,636
15	MEAG Power	GA	13,261,964	65	Springfield City Water, Light & Power	IL	2,892,968
16	Seattle City Light	WA	12,403,349	66	Lubbock Power & Light	TX	2,827,879
17	Nashville Electric Service	TN	12,397,243	67	Tallahassee Electric Utility, City of	FL	2,799,148
18	JEA	FL	12,167,025	68	Minnesota Municipal Power Agency	MN	2,740,262
19	Sacramento Municipal Utility District	CA	11,716,869	69	Vinton Public Power Authority	LA	2,706,741
20	Southern California Public Power Authority	CA	10,580,385	70	Lansing Board of Water & Light	MI	2,693,950
21	Energy Northwest	WA	10,033,806	71	Piedmont Municipal Power Agency	SC	2,575,688
22	Grant County, Public Utility District No. 2 of	WA	9,219,981	72	Owensboro Municipal Utilities	KY	2,385,157
23	Intermountain Power Agency	CA	8,499,300	73	NMPP Energy: Municipal Energy Agency of Nebraska	NE	2,378,101
24	Snohomish County, Public Utility District No. 1 of	WA	8,497,778	74	Benton PUD	WA	2,299,009
25	Grand River Dam Authority	OK	8,227,933	75	Sikeston Board of Municipal Utilities	MO	2,222,672
26	Orlando Utilities Commission	FL	8,159,519	76	Riverside Public Utilities, City of	CA	2,165,473
27	North Carolina Eastern Municipal Power Agency	NC	7,663,864	77	Gainesville Regional Utilities	FL	2,153,721
28	North Carolina Municipal Power Agency No. 1	NC	7,631,819	78	Bryan Texas Utilities	TX	2,096,856
29	Florida Municipal Power Agency	FL	7,240,884	79	Fayetteville Public Works Commission	NC	2,082,629
30	Tacoma Public Utilities	WA	6,782,699	80	BrightRidge	TN	1,937,717
31	Indiana Municipal Power Agency	IN	6,776,136	81	Louisiana Energy and Power Authority	LA	1,853,515
32	WPPI Energy	WI	6,211,924	82	Murfreesboro Electric Department	TN	1,847,647
33	EPB - Chattanooga Electric Power Board	TN	5,851,652	83	Burbank Water and Power	CA	1,826,434
34	Missouri Joint Municipal Electric Utility Comm	MO	5,571,178	84	Greenville Utilities Commission	NC	1,810,635
35	Knoxville Utilities Board	TN	5,560,494	85	Muscataine Power & Water	IA	1,805,383
36	Huntsville Utilities	AL	5,351,996	86	Dalton Utilities	GA	1,805,337
37	Clark Public Utilities	WA	5,260,659	87	Kansas Municipal Energy Agency	KS	1,741,692
38	Colorado Springs Utilities	CO	5,219,740	88	Jackson Energy Authority	TN	1,723,562
39	Lincoln Electric System	NE	4,947,421	89	Roseville Electric	CA	1,698,851
40	Sam Rayburn Municipal Power Agency	TX	4,905,114	90	Lenoir City Utilities Board	TN	1,690,291
41	Cowlitz County, Public Utility District No. 1 of	WA	4,839,889	91	Grays Harbor County, Public Utility District No. 1 of	WA	1,667,240
42	California Department of Water Resources	CA	4,641,753	92	Cleveland Public Power	OH	1,657,525
43	Springfield, City Utilities of	MO	4,491,247	93	New Braunfels Utilities	TX	1,631,138
44	Illinois Municipal Electric Agency	IL	4,016,672	94	CDE Lightbrand	TN	1,622,548
45	Northern California Power Agency	CA	4,012,222	95	Jonesboro City Water & Light	AR	1,603,669
46	Missouri River Energy Services	SD	4,006,836	96	Guam Power Authority	GU	1,567,052
47	Platte River Power Authority	CO	4,002,412	97	Kissimmee Utility Authority	FL	1,559,518
48	Kansas City Board of Public Utilities	KS	3,910,890	98	Utah Municipal Power Agency	UT	1,551,468
49	Garland, City of	TX	3,906,278	99	Virginia Municipal Electric Association No. 1	VA	1,528,195
50	Eugene Water & Electric Board	OR	3,820,578	100	Denton Municipal Electric	TN	1,527,899

# Sales and Revenue

## 100 Largest Public Power Utilities By Electric Revenues, 2018

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

1	Los Angeles Department of Water & Power	CA	\$3,837,587	51	Cowlitz County, Public Utility District No. 1 of	WA	\$271,233
2	Long Island Power Authority	NY	\$3,602,574	52	Tallahassee Electric Utility, City of	FL	\$270,628
3	Puerto Rico Electric Power Authority	PR	\$3,550,675	53	Kansas City Board of Public Utilities	KS	\$267,245
4	Salt River Project	AZ	\$3,249,622	54	Massachusetts Municipal Wholesale Electric Co.	MA	\$264,632
5	CPS Energy	TX	\$2,606,483	55	Lubbock Power & Light	TX	\$255,668
6	New York Power Authority	NY	\$1,831,860	56	Garland, City of	TX	\$254,995
7	Santee Cooper (South Carolina Public Service Authority)	SC	\$1,781,318	57	Eugene Water & Electric Board	OR	\$253,816
8	Sacramento Municipal Utility District	CA	\$1,430,449	58	Gainesville Regional Utilities	FL	\$253,075
9	Nashville Electric Service	TN	\$1,344,449	59	Springfield City Water, Light & Power	IL	\$251,273
10	Memphis Light, Gas and Water Division	TN	\$1,280,293	60	Sam Rayburn Municipal Power Agency	TX	\$248,458
11	JEA	FL	\$1,278,632	61	Piedmont Municipal Power Agency	SC	\$235,799
12	Austin Energy	TX	\$1,273,086	62	Southern Minnesota Municipal Power Agency	MN	\$230,637
13	Omaha Public Power District	NE	\$1,157,760	63	Alabama Municipal Electric Authority	AL	\$218,119
14	American Municipal Power	OH	\$1,060,412	64	Glendale Water & Power	CA	\$217,032
15	Nebraska Public Power District	NE	\$1,023,069	65	Platte River Power Authority	CO	\$216,817
16	Seattle City Light	WA	\$978,590	66	Fayetteville Public Works Commission	NC	\$215,894
17	Southern California Public Power Authority	CA	\$825,546	67	Cleveland Public Power	OH	\$213,883
18	MEAG Power	GA	\$807,771	68	Lafayette Utilities System	LA	\$212,555
19	Orlando Utilities Commission	FL	\$718,923	69	Missouri River Energy Services	SD	\$207,049
20	Snohomish County, Public Utility District No. 1 of	WA	\$646,059	70	BrightRidge	TN	\$205,720
21	EPB - Chattanooga Electric Power Board	TN	\$575,914	71	Burbank Water and Power	CA	\$195,168
22	Knoxville Utilities Board	TN	\$556,898	72	Pasadena Water and Power Department	CA	\$191,170
23	North Carolina Eastern Municipal Power Agency	NC	\$547,452	73	Oklahoma Municipal Power Authority	OK	\$190,822
24	North Carolina Municipal Power Agency No. 1	NC	\$520,798	74	Anchorage Municipal Light & Power	AK	\$190,074
25	Florida Municipal Power Agency	FL	\$517,457	75	Missouri River Energy Services	SD	\$190,001
26	Huntsville Utilities	AL	\$517,169	76	Oklahoma Municipal Power Authority	OK	\$187,610
27	Intermountain Power Agency	CA	\$501,589	77	Virgin Islands Water & Power Authority	VI	\$185,505
28	Energy Northwest	WA	\$474,556	78	Northern California Power Agency	CA	\$184,269
29	Colorado Springs Utilities	CO	\$466,181	79	Roseville Electric	CA	\$177,261
30	Indiana Municipal Power Agency	IN	\$453,899	80	Greenville Utilities Commission	NC	\$175,508
31	WPPI Energy	WI	\$445,463	81	Murfreesboro Electric Department	TN	\$175,236
32	IID Energy	CA	\$428,125	82	CDE Lightbrand	TN	\$174,851
33	Grand River Dam Authority	OK	\$419,002	83	Kissimmee Utility Authority	FL	\$174,412
34	Silicon Valley Power	CA	\$417,077	84	Bryan Texas Utilities	TX	\$173,161
35	Lower Colorado River Authority	TX	\$413,501	85	Lenoir City Utilities Board	TN	\$171,189
36	Tacoma Public Utilities	WA	\$409,934	86	Anchorage Municipal Light & Power	AK	\$170,633
37	Anaheim Public Utilities	CA	\$400,236	87	Utah Associated Municipal Power Systems	UT	\$170,458
38	Clark Public Utilities	WA	\$379,437	88	Naperville Department of Public Utilities	IL	\$165,165
39	Guam Power Authority	GU	\$378,329	89	Vernon, City of	CA	\$162,990
40	Modesto Irrigation District	CA	\$360,293	90	Michigan Public Power Agency	MI	\$162,706
41	Chelan County Public Utility District No. 1	WA	\$346,746	91	Owensboro Municipal Utilities	KY	\$155,423
42	Turlock Irrigation District	CA	\$335,437	92	Sevier County Electric System	TN	\$155,053
43	Missouri Joint Municipal Electric Utility Comm	MO	\$334,753	93	Rochester Public Utilities	MN	\$154,226
44	Lincoln Electric System	NE	\$317,785	94	Denton Municipal Electric	TX	\$149,537
45	Illinois Municipal Electric Agency	IL	\$314,191	95	Benton PUD	WA	\$148,950
46	Springfield, City Utilities of	MO	\$313,008	96	Independence Power & Light	MO	\$146,544
47	Lakeland Electric	FL	\$311,708	97	Jackson Energy Authority	TN	\$145,729
48	Riverside Public Utilities, City of	CA	\$303,928	98	San Francisco (Hetch Hetchy Water & Power), City of	CA	\$139,575
49	Grant County, Public Utility District No. 2 of	WA	\$299,993	99	Vinton Public Power Authority	LA	\$136,793
50	Lansing Board of Water & Light	MI	\$292,638	100	Brownsville Public Utilities Board	TX	\$133,705

# Generation

## 100 Largest Public Power Systems by Generation, 2018

Net generation in megawatt-hours

1	Salt River Project	AZ	33,889,652	51	Lansing Board of Water & Light	MI	1,645,316
2	New York Power Authority	NY	30,066,643	52	WPPI Energy	WI	1,569,643
3	CPS Energy	TX	28,071,825	53	Metropolitan Water District of Southern California	CA	1,445,430
4	Los Angeles Department of Water & Power	CA	21,987,775	54	Jonesboro City Water & Light	AR	1,423,678
5	Santee Cooper (South Carolina Public Service Authority)	SC	19,009,620	55	Brownsville Public Utilities Board	TX	1,385,334
6	Nebraska Public Power District	NE	16,100,177	56	Anchorage Municipal Light & Power	AK	1,332,351
7	Lower Colorado River Authority	TX	13,355,364	57	Western Minnesota Municipal Power Agency	SD	1,286,695
8	MEAG Power	GA	12,301,156	58	Yuba County Water Agency	CA	1,281,599
9	Omaha Public Power District	NE	11,116,129	59	IID Energy	CA	1,223,929
10	Puerto Rico Electric Pwr Authority	PR	11,084,237	60	Clark Public Utilities	WA	1,192,594
11	JEA	FL	10,181,380	61	Utah Associated Municipal Power Systems	UT	1,139,795
12	Grant County, Public Utility District No. 2 of	WA	10,121,806	62	Lafayette Public Power Authority	LA	1,062,984
13	Energy Northwest	WA	10,033,806	63	San Francisco (Hetch Hetchy Water & Power), City of	CA	1,032,200
14	Austin Energy	TX	9,905,754	64	Kansas City Board of Public Utilities	KS	1,003,798
15	American Municipal Power	OH	9,415,022	65	Silicon Valley Power	CA	943,530
16	Chelan County Public Utility District No. 1	WA	9,279,865	66	Holland Board of Public Works	MI	915,002
17	Intermountain Power Agency	CA	8,499,300	67	Northern Municipal Power Agency	MN	905,979
18	Florida Municipal Power Agency	FL	7,334,258	68	Muscatine Power & Water	IA	888,667
19	North Carolina Municipal Power Agency No. 1	NC	7,134,316	69	Placer County Water Agency	CA	840,355
20	Sacramento Municipal Utility District	CA	7,089,430	70	Dalton Utilities	GA	806,072
21	Orlando Utilities Commission	FL	6,913,685	71	NMPP Energy: Municipal Energy Agency of Nebraska	NE	802,582
22	Southern California Public Power Authority	CA	6,894,970	72	Texas Municipal Power Agency	TX	786,451
23	Seattle City Light	WA	6,409,718	73	Minnesota Municipal Power Agency	MN	785,304
24	Grand River Dam Authority	OK	5,305,969	74	Farmington, City of	NM	758,048
25	Colorado Springs Utilities	CO	4,803,116	75	Louisiana Energy and Power Authority	LA	661,719
26	Douglas County, Public Utility District No. 1 of	WA	4,438,938	76	Virgin Islands Water & Power Authority	VI	595,517
27	Indiana Municipal Power Agency	IN	3,619,793	77	Grand Island, City of	NE	536,138
28	Missouri Joint Municipal Electric Utility Comm	MO	3,366,304	78	Utah Municipal Power Agency	UT	533,563
29	Lakeland Electric	FL	3,253,838	79	Snohomish County, Public Utility District No. 1 of	WA	490,570
30	California Department of Water Resources	CA	3,028,279	80	Fremont Department of Utilities	NE	482,388
31	Springfield, City Utilities of	MO	3,006,235	81	Burbank Water and Power	CA	474,575
32	Oklahoma Municipal Power Authority	OK	2,942,011	82	Hastings, City of	NE	466,598
33	Tallahassee Electric Utility, City of	FL	2,830,216	83	Pend Oreille County, Public Utility District No. 1 of	WA	454,565
34	Illinois Municipal Electric Agency	IL	2,723,010	84	Wyoming Municipal Power Agency	WY	390,336
35	Platte River Power Authority	CO	2,643,067	85	Central Nebraska Public Power & Irrigation District	NE	380,177
36	Northern California Power Agency	CA	2,615,634	86	Conway Corporation	AR	359,239
37	Tacoma Public Utilities	WA	2,407,562	87	Cedar Falls Utilities	IA	357,236
38	Springfield City Water, Light & Power	IL	2,397,923	88	Kings River Conservation District	CA	340,082
39	Piedmont Municipal Power Agency	SC	2,351,200	89	Eugene Water & Electric Board	OR	313,328
40	Southern Minnesota Municipal Power Agency	MN	2,214,862	90	Denton Municipal Electric	TX	312,066
41	Owensboro Municipal Utilities	KY	2,176,260	91	West Memphis, City of	AR	301,355
42	Turlock Irrigation District	CA	2,112,414	92	Tri-Dam Project	CA	295,593
43	Lincoln Electric System	NE	2,060,277	93	Merced Irrigation District	CA	286,352
44	Michigan Public Power Agency	MI	2,038,140	94	Independence Power & Light	MO	280,785
45	Gainesville Regional Utilities	FL	2,033,096	95	Henderson City Utility Commission	KY	277,164
46	Sikeston Board of Municipal Utilities	MO	1,824,391	96	Commonwealth Utility Corporation	MP	275,643
47	Long Island Power Authority	NY	1,819,172	97	Los Alamos County Utilities	NM	274,493
48	Massachusetts Municipal Wholesale Electric Co.	MA	1,786,966	98	South Feather Water and Power Agency	CA	272,322
49	Guam Power Authority	GU	1,655,795	99	Nevada Irrigation District	CA	267,817
50	Guam Power Authority	GU	1,697,186	100	Toledo Bend Project	TX	267,622



# Public Power Pays Back

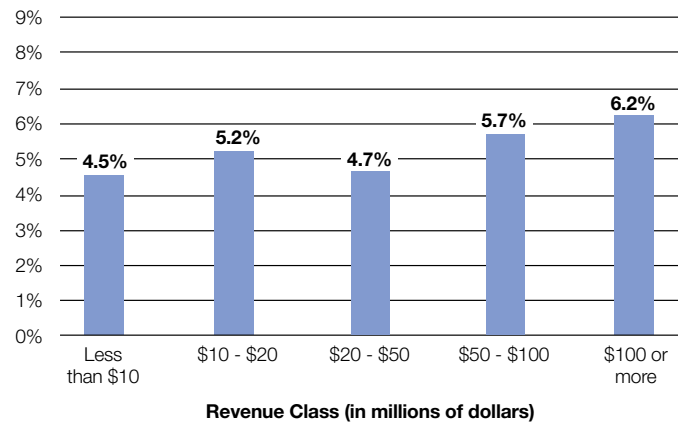
Community-owned utilities are not beholden to any shareholders and are driven only by the mission to serve their customers and their community. In addition to providing electricity, public power utilities provide a direct benefit to their communities in the form of payments and contributions to state 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 2018, public power utilities contributed **5.4% of electric operating revenues back to the communities they serve**, according to an American Public Power Association survey of 136 public power utilities.

In comparison, investor-owned utilities paid a median of 4.8% of electric operating revenues in taxes and fees to state and local governments in 2018.

When all 2018 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 13% higher than that of investor-owned utilities.

**Median Net Payments and Contributions by Public Power Utilities as Percent of Electric Operating Revenue, 2018**



**Serving those who serve the public.**

We are energy advisors of choice to municipalities and rural electric generation, transmission and distribution cooperatives.

Our services cover:

- Federal Regulation and Compliance
- Power Purchase Transactions
- Regional Wholesale Markets
- Energy Resource Acquisition Strategies
- Asset Acquisition and Finance
- Renewable Resource Development and Purchase

**McCarter & English**

1301 K St., NW, Suite 1000 West  
Washington, DC 20005  
202.753.3400 | [www.mccarter.com](http://www.mccarter.com)

The 125 utilities that completed the survey made \$776 million in total payments and contributions to their state and local governments in 2018.

### Net Payments and Contributions to State and Local Government

	Amount (in millions)	Percent of Total
Payments in Lieu of Taxes	\$594.5	76.6%
Other Taxes and Fees	\$68.3	8.8%
Gross Receipts Tax	\$64.1	8.3%
Free or Reduced Cost Electric Services	\$40.7	5.2%
Use of Employees	\$6.0	0.8%
Other, including Equipment and Materials	\$3.0	0.4%
<b>TOTAL</b>	<b>\$776.6</b>	
Less: Services and Contributions RECEIVED by the Utility FROM the Municipality	\$2.5 <sup>1</sup>	
<b>Net Payments &amp; Contributions</b>	<b>\$774.1</b>	

Payments in lieu of taxes were the largest share of payments and contributions, followed by other taxes and fees.

### Types of Payments & Contributions, 2018

	Percentage of Utilities Surveyed	Number of Utilities
<b>I. Payments &amp; Contributions PROVIDED</b>		
<b>Payments in Lieu of Taxes</b>	<b>84.0%</b>	<b>105</b>
<b>Taxes and Fees</b>	<b>42.4%</b>	<b>53</b>
Gross Receipts Tax	21.6%	27
State Public Utility Assessments	17.6%	22
Franchise Fees	9.6%	12
Property Taxes	16.8%	21
Other	10.4%	13
<b>Free or Reduced Cost Electric Service</b>	<b>38.4%</b>	<b>48</b>
Streetlighting	32.0%	40
Lighting for Municipal Buildings	18.4%	23
Traffic Signals	16.0%	20
Recreational Facilities	16.0%	20
Water or Sewer Treatment Facilities	9.6%	12
Water Pumping	9.6%	12
Other	14.4%	18
<b>Use of Employees</b>	<b>47.2%</b>	<b>59</b>
Installation of Temporary Lighting	20.8%	26
Putting Up City Signs & Banners	26.4%	33
Electrical Repair for Other Departments	19.2%	24
Traffic Signal Maintenance	15.2%	19
Tree Trimming for Other Departments	18.4%	23
Other Services	17.6%	22
Non-Utility Locates	7.2%	9
Technical Expertise	5.6%	7
Rewiring Municipal Buildings	5.6%	7
Reading Water Meters	6.4%	8
<b>Other Resources</b>	<b>31.2%</b>	<b>39</b>
Use of Vehicles & Equipment	24.0%	30
Use of Materials & Supplies	11.2%	14
Other	10.4%	13
<b>II. Services &amp; Contributions RECEIVED</b>	<b>17.6%</b>	<b>22</b>
Free or Reduced Cost Service	5.6%	7
Use of Vehicles & Equipment	8.0%	10
Use of Materials & Supplies	3.2%	4
Use of Employees	10.4%	13

## Power Packaging

Hamby Young has been packaging high voltage materials for the Public Power market for over 40 years. With an efficient and cost effective approach, Hamby Young provides the support and services to fit your project's specific needs.

- Substations • Switchyards
- Transmission and Distribution Lines

Hamby Young's expertise and flexibility allows the opportunity to model your project around your strengths while taking advantage of ours.



**CONTACT:** Greg Blunt Ext. 5040  
**P:** 800.726.8444 • **F:** 330.562.4018  
**1245 Danner Drive • Aurora, Ohio 44202**



# Public Power Costs Less

**P**ublic power utilities have a long history of being able to offer low electricity rates to customers.

Over the past decade, as many costs have come down across the industry, we have continually seen the difference between public power, cooperative, and investor-owned utility residential rates shrink. In 2018, for the first time in a long time, we did not have the lowest average bundled rate for residential customers. Our residential customers' rates are 11% less than those of residential customers served by IOUs, but cooperative residential customers had rates that were 1% less than ours.

Does this mean we're no longer able to claim that we're more affordable? No.

To repeat a longtime industry mantra, "Customers pay bills, not rates." What ultimately determines the bill is how much electricity our customers use.

Public power customers use about 20% less electricity than co-op customers in an average month. If extrapolated over an entire year, the average cooperative residential customer pays about \$324 more for electricity than the average public power residential customer.

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 data from the Energy Information Administration. 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 rate per kilowatt-hour	\$0.1347	\$0.1181	\$0.1195
Average kWh/month	855	1,175	933
Average monthly customer bill* (extrapolated)	\$115	\$139	\$112

\* Does not include fixed customer charges



**ofs**  
A Furukawa Company

## KEEPING RURAL AMERICA UP TO SPEED

Take your network to the next level with innovative fiber solutions from OFS.

From Loose tube and ADSS fiber optic cables to demarcation boxes and cable for the home fiber network, the industry-leading products we manufacture offer the performance, reliability and value that you need.

To learn more, visit us at [www.ofsoptics.com](http://www.ofsoptics.com)

# Data By State

## Utility Sector Rate Comparison by State, 2018

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

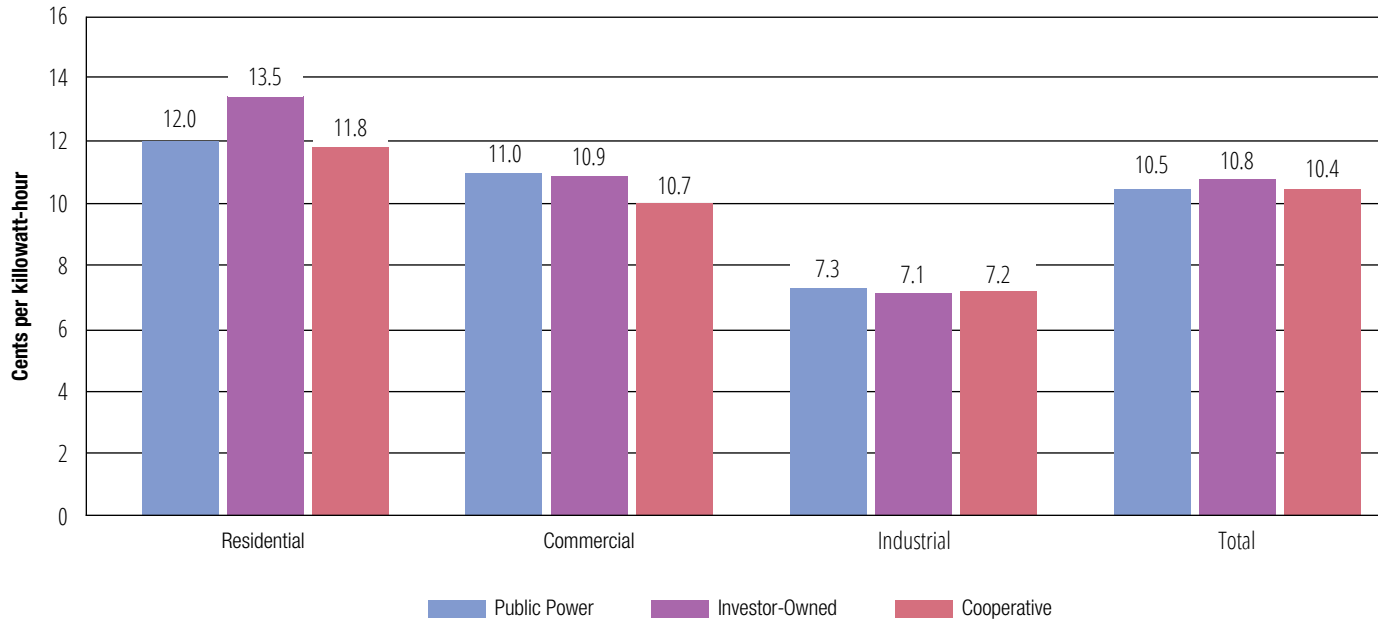
	Residential			Commercial			Industrial			Total		
	Public	Private	Co-op	Public	Private	Co-op	Public	Private	Co-op	Public	Private	Co-op
Alabama	10.5	12.8	12.1	10.5	11.7	11.4	6.4	6.3	6.6	9.6	9.8	11.1
Alaska	17.2	15.6	23.0	15.1	16.6	20.1	20.0	11.8	17.1	15.9	15.1	20.4
Arizona	11.7	13.6	13.4	9.4	11.7	11.8	6.3	6.8	9.4	9.9	11.6	12.5
Arkansas	8.7	9.6	10.5	8.4	7.1	9.8	6.5	5.4	5.6	7.8	7.4	8.5
California	16.4	19.3	16.6	15.5	17.4	15.8	12.2	15.9	9.2	15.1	17.9	14.6
Colorado	11.7	11.4	13.5	9.0	9.8	11.4	7.6	6.5	8.5	9.4	9.6	11.1
Connecticut	16.0	21.1	-	13.5	17.8	-	9.6	16.6	-	13.0	20.3	-
Delaware	13.7	12.5	11.4	12.2	10.7	10.8	10.0	7.0	-	11.7	12.0	11.3
District of Columbia	-	12.1	-	-	12.8	-	-	-	-	-	12.4	-
Florida	11.4	11.5	11.9	9.7	9.0	9.8	7.6	7.5	8.3	10.2	10.2	11.1
Georgia	11.5	11.6	11.3	11.0	9.3	10.9	6.2	5.7	7.3	9.5	9.1	10.7
Hawaii	-	32.7	37.3	-	30.0	37.4	-	25.8	33.4	-	29.1	36.0
Idaho	7.8	10.4	10.1	6.6	8.0	8.2	5.2	6.6	5.2	7.0	8.2	8.5
Illinois	12.8	12.3	14.2	12.3	9.7	11.8	9.4	6.1	8.9	11.8	11.1	12.4
Indiana	10.6	12.2	13.0	10.0	10.6	10.9	8.1	7.3	7.0	9.3	9.6	10.8
Iowa	10.9	12.4	12.4	9.0	9.8	9.4	7.0	6.3	7.4	8.8	8.7	10.1
Kansas	12.2	13.4	14.1	10.6	10.3	11.8	7.0	7.6	8.1	9.4	10.8	11.2
Kentucky	11.4	10.2	11.0	10.5	9.4	10.5	8.3	6.2	5.0	10.0	8.7	8.3
Louisiana	9.4	9.5	9.8	8.6	8.8	10.1	5.1	5.3	7.5	7.3	7.5	9.5
Maine	13.0	16.6	18.2	12.5	13.4	16.3	11.8	13.8	13.1	12.6	15.5	17.0
Maryland	9.2	13.0	12.7	9.9	11.7	10.8	6.8	10.0	9.0	9.2	12.7	12.0
Massachusetts	14.3	23.1	-	14.5	19.6	-	12.9	17.8	-	14.0	21.9	-
Michigan	13.6	15.6	14.5	12.1	11.5	11.4	8.5	7.2	8.7	11.2	11.9	12.7
Minnesota	12.3	13.6	12.9	11.1	10.4	10.1	8.6	7.2	8.4	10.4	10.0	11.5
Mississippi	10.5	10.7	11.5	10.6	9.8	11.6	6.3	6.6	7.8	9.7	9.1	10.8
Missouri	11.1	11.5	11.0	9.4	9.3	10.2	8.1	7.3	6.4	9.8	9.9	10.0
Montana	-	11.6	10.6	-	11.1	8.9	-	7.6	7.9	-	10.8	9.5
Nebraska	10.6	-	12.1	8.8	-	11.7	7.4	-	14.2	8.9	-	13.2
Nevada	10.6	11.9	11.0	7.6	8.9	9.0	3.5	6.9	5.5	6.5	9.6	7.4
New Hampshire	14.6	19.2	20.8	14.5	16.1	19.2	13.4	13.1	15.4	14.2	18.2	20.1
New Jersey	15.3	15.2	12.6	15.4	12.5	11.7	12.3	7.0	12.9	14.7	14.0	12.5
New Mexico	11.5	12.3	14.5	10.5	9.7	11.8	5.9	4.9	7.5	8.8	9.2	10.2
New York	19.1	18.0	13.8	17.7	15.9	9.6	4.1	7.7	-	17.7	17.0	12.8
North Carolina	11.7	10.6	12.2	10.4	8.1	10.3	7.3	6.1	7.2	10.2	8.7	11.4
North Dakota	7.0	10.1	10.5	7.2	8.9	9.8	9.2	7.2	8.0	7.2	9.2	8.9
Ohio	12.9	12.1	13.4	12.2	10.7	12.0	9.7	7.2	8.5	11.3	11.6	11.9
Oklahoma	11.4	9.8	11.2	9.9	7.4	10.8	5.5	5.0	6.4	8.1	7.6	9.7
Oregon	9.2	11.6	9.8	8.2	9.3	8.0	5.1	7.0	5.1	7.3	9.9	7.4
Pennsylvania	13.0	13.2	13.0	12.3	10.3	11.0	9.6	9.2	7.6	11.8	12.5	11.8
Rhode Island	15.2	20.4	-	17.0	17.9	-	13.9	17.5	-	14.9	19.6	-
South Carolina	11.9	12.0	13.3	10.4	9.7	12.0	5.9	5.9	7.3	9.0	9.1	11.6
South Dakota	10.2	11.9	11.6	8.9	10.2	10.6	7.6	7.2	8.3	8.9	10.3	10.4
Tennessee	10.7	9.1	10.8	10.4	9.8	11.2	6.1	6.1	5.9	9.8	7.9	10.2
Texas	10.9	10.6	10.6	9.4	8.0	9.3	6.1	4.8	7.1	9.6	7.4	9.5
Utah	9.9	10.7	8.6	9.0	8.1	8.0	6.3	5.8	6.5	8.8	8.1	8.1
Vermont	15.9	18.1	19.7	14.7	15.2	15.8	12.8	10.3	11.1	14.8	14.9	16.9
Virginia	12.3	11.6	12.3	9.8	8.1	10.8	7.9	6.5	7.7	10.5	9.2	10.7
Washington	9.2	10.6	9.1	7.9	9.9	8.1	5.1	7.9	6.5	7.5	10.0	8.3
West Virginia	-	11.1	17.0	-	9.2	17.0	-	6.4	-	-	8.7	17.0
Wisconsin	11.2	14.3	14.4	9.8	10.8	10.8	7.4	7.3	7.9	9.1	10.6	12.5
Wyoming	11.4	11.8	10.2	9.2	9.8	9.2	8.5	6.4	7.7	10.0	7.7	8.7

Source: Department of Energy, Energy Information Administration, Form EIA-861, 2018.

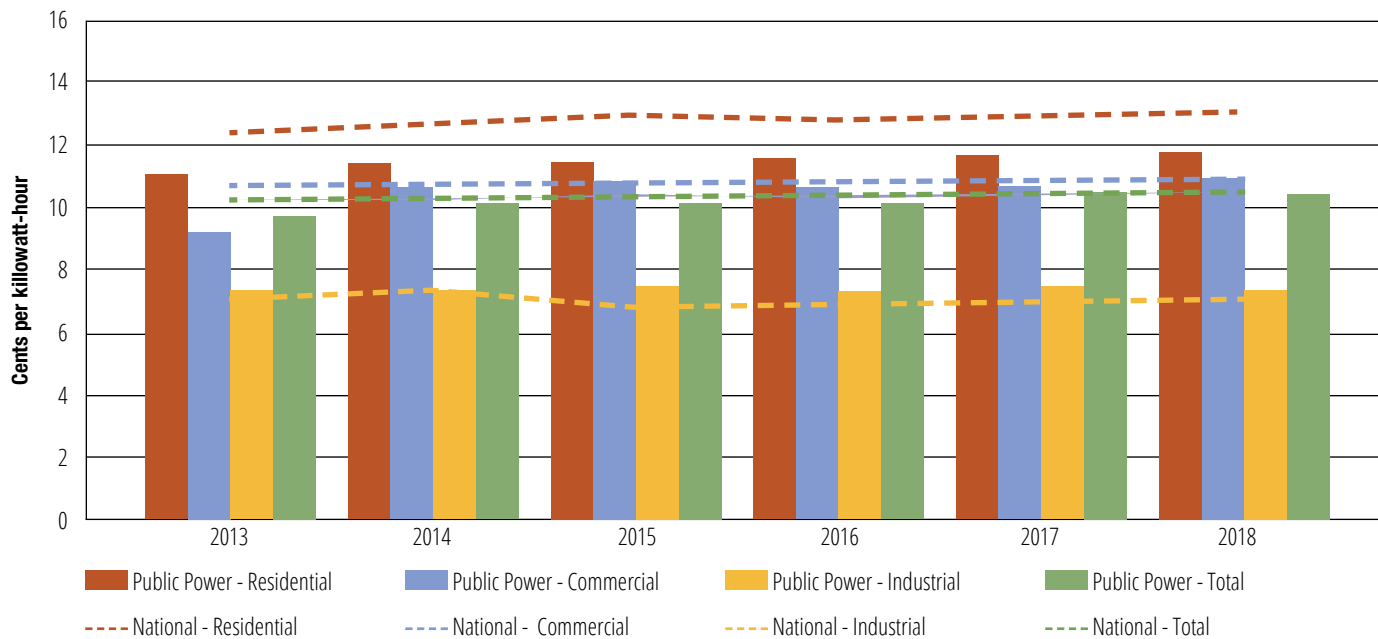
Note: Residential, Commercial, and Industrial rates do not include utilities that filed a Form EIA-861S. Total rates include all utilities.

# Sales and Revenue

## Average Retail Electric Rates by Customer Class, 2018



## Trends in Average Retail Electric Rates by Customer Class, 2013-2018



# Public Power Data By State

Source: Energy Information Administration Form EIA-861 and 861S, 2018 data.

	Ultimate Customers	Sales to Ultimate Customers (MWh)	Generation (MWh)
Alabama	560,801	17,114,368	28,610
Alaska	57,033	1,443,240	1,830,761
American Samoa	163,081	142,352	163,081
Arizona	1,166,050	32,352,548	33,893,193
Arkansas	203,606	6,370,660	2,125,665
California	3,281,798	60,835,775	62,592,669
Colorado	464,754	9,024,740	7,489,183
Connecticut	74,761	1,878,032	11,159
Delaware	70,322	2,038,179	52,295
Florida	1,483,093	36,612,199	32,583,783
Georgia	345,011	12,433,302	13,153,141
Guam	51,372	1,567,052	1,655,795
Idaho	47,091	1,129,290	240,524
Illinois	273,899	6,724,416	5,206,777
Indiana	263,095	8,072,207	3,629,821
Iowa	219,647	5,537,534	1,966,563
Kansas	236,980	7,295,093	1,239,375
Kentucky	210,686	6,497,319	2,488,165
Louisiana	172,131	7,325,350	2,036,819
Maine	16,632	325,990	571
Maryland	34,617	733,597	8,052
Massachusetts	414,143	7,575,011	2,291,467
Michigan	310,117	7,540,038	5,035,725
Minnesota	381,881	9,829,795	4,242,939
Mississippi	135,479	3,928,770	2,754
Missouri	437,938	11,190,407	8,717,047
Montana	978	16,371	-
Nebraska	1,041,260	30,156,199	32,135,331
Nevada	31,985	1,901,304	-
New Hampshire	12,341	184,040	-
New Jersey	63,328	1,154,201	163,463
New Mexico	85,313	2,040,753	1,032,541
New York	1,299,023	42,046,211	32,076,831
North Carolina	614,666	16,707,660	7,136,937
North Dakota	11,248	326,536	-
Northern Marianas	16,566	257,661	275,643
Ohio	383,145	10,386,355	9,526,481
Oklahoma	205,499	6,639,189	8,248,041
Oregon	307,784	9,634,278	445,645
Pennsylvania	85,686	1,441,669	8,801
Puerto Rico	1,473,320	16,374,167	11,084,237
Rhode Island	4,827	56,196	-
South Carolina	372,273	12,702,794	21,364,008
South Dakota	61,280	1,595,274	1,286,728
Tennessee	2,307,990	70,030,660	-
Texas	2,009,440	53,973,778	54,596,294
Utah	260,875	5,262,415	1,895,846
Vermont	52,930	715,797	244,390
Virgin Islands	56,450	522,300	595,917
Virginia	168,295	4,471,007	54,364
Washington	1,779,210	48,514,460	45,036,791
West Virginia	3,476	69,139	-
Wisconsin	290,370	7,786,314	1,893,584
Wyoming	36,495	671,132	598,172
<b>TOTAL</b>	<b>24,112,071</b>	<b>611,155,124</b>	<b>422,385,979</b>

Public Power Customers as % of Total  
Residential Customers in State

20.3%  
14.1%  
100.0%  
36.8%  
12.2%  
19.3%  
16.0%  
3.4%  
12.5%  
13.4%  
5.8%  
100.0%  
4.1%  
2.5%  
6.0%  
10.3%  
12.4%  
8.1%  
5.7%  
1.5%  
0.8%  
8.1%  
5.4%  
11.9%  
7.5%  
11.4%  
NA  
95.1%  
1.7%  
0.6%  
1.0%  
6.8%  
13.2%  
10.4%  
1.0%  
100.0%  
3.8%  
7.3%  
15.4%  
0.4%  
100.0%  
0.9%  
13.1%  
10.6%  
68.5%  
15.2%  
100.0%  
18.4%  
12.0%  
3.9%  
50.6%  
NA  
8.1%  
8.3%

**12.6%**

## Number of Public Power Utilities, 2018

Alabama	37
Alaska	35
American Samoa	1
Arizona	29
Arkansas	15
California	55
Colorado	31
Connecticut	9
Delaware	9
Florida	34
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	128
Mississippi	24
Missouri	87
Montana	1
Nebraska	149
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	37
Tennessee	61
Texas	77
Utah	41
Vermont	15
Virgin Islands	1
Virginia	17
Washington	42
West Virginia	2
Wisconsin	83
Wyoming	14
<b>Total</b>	<b>2,010</b>

(Source: Department of Energy, Energy Information Administration, Forms EIA-861 and 861S, 2018. Includes U.S. Territories.)

# PARTNERSHIP 2.0

Proven Capabilities. New Opportunities.

New challenges require a new mindset. TEA has transformed to bring the analytical capabilities and market knowledge you've depended on for over 20 years to bear on the new challenges you're facing.

Whether you're integrating distributed energy resources, analyzing your "big data" for meaningful insights, or transitioning to become "Utility 2.0," TEA's advanced analytical capabilities can help you thrive in the world to come.



[www.teainc.org](http://www.teainc.org)