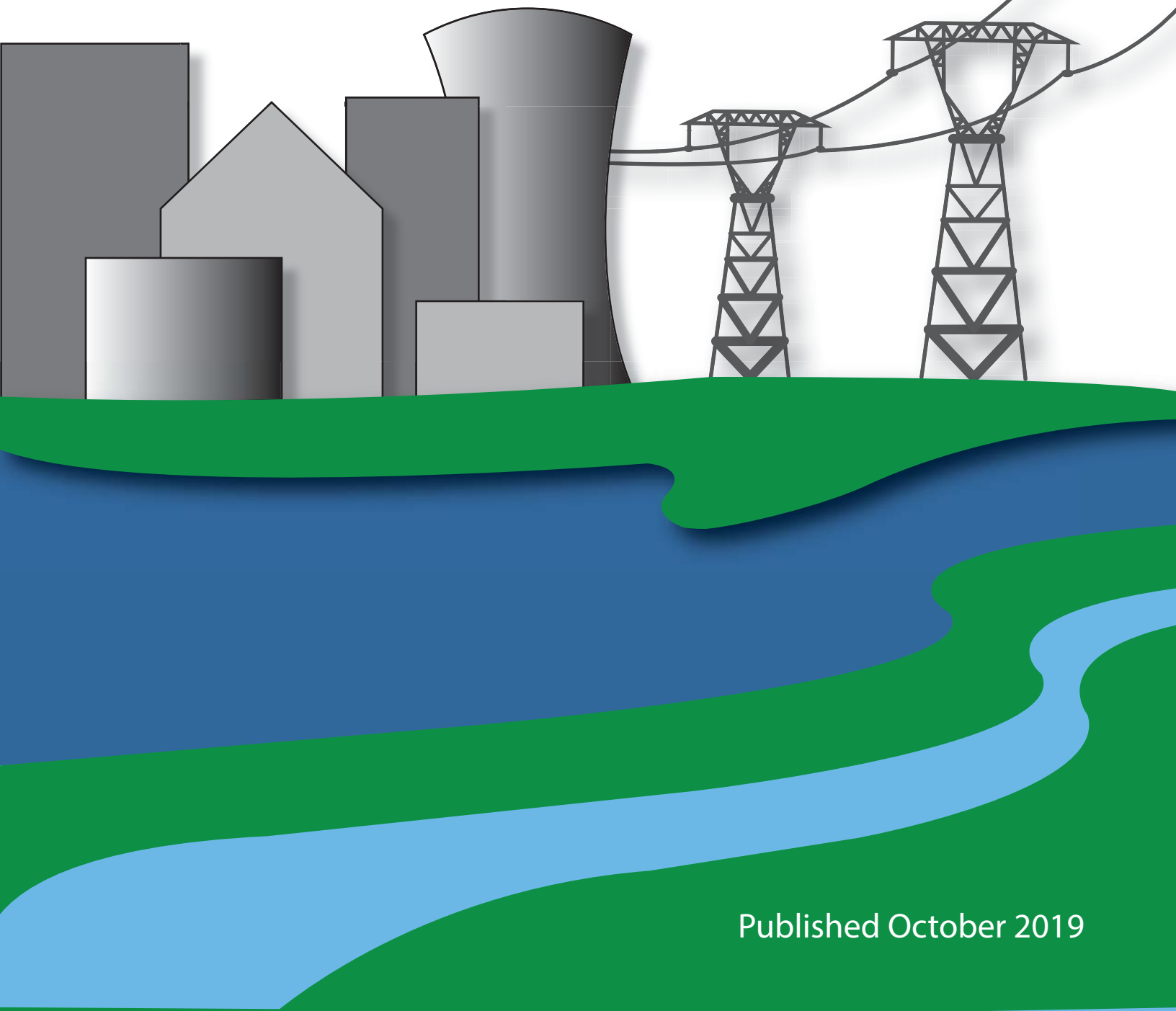


STATISTICS OF THE  
**Florida Electric  
Utility Industry**



FLORIDA  
PUBLIC  
SERVICE  
COMMISSION



Published October 2019



# **Statistics of the Florida Electric Utility Industry 2018**

In partial fulfillment of Section 377.703, Florida Statutes, this publication provides a single comprehensive source of statistics on Florida's electric utility industry. Information was compiled from various sources: filings made with, and reports prepared by, the Florida Public Service Commission; the Florida Reliability Coordinating Council (FRCC); the Office of Economic & Demographic Research; the U.S. Census Bureau; the U.S. Government Publishing Office; the U.S. Department of Labor; and data provided by the Florida electric utilities. The Florida Public Service Commission has not audited the data for accuracy.



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## Acronyms, Abbreviations, and Formulas

The following acronyms, abbreviations, and formulas are used in this report:

AFUDC	Allowance for Funds Used During Construction
AC	Alternating Current
EIA	Energy Information Administration
EEI	Edison Electric Institute
FCG	Florida Electric Power Coordinating Group, Inc.
FERC	Federal Energy Regulatory Commission (f/k/a FPC)
FPC	Federal Power Commission
FPSC	Florida Public Service Commission
FRCC	Florida Reliability Coordinating Council (f/k/a FCG)

BBL	Barrel (42 gallons)
BTU	British Thermal Unit
ECS	Extended Cold Standby
IC & GT	Internal Combustion and Gas Turbine
MCF	= 1,000 cubic feet
SH-TON	Short ton (2,000 pounds)
THERM	100,000 BTUs

Kilowatt (kW) = 1,000 watts

Megawatt (MW) = 1,000 kilowatts

Gigawatt (GW) = 1,000 megawatts

Kilowatt-Hours (kWh) = 1,000 watt-hours

Megawatt-Hours (MWh) = 1,000 kilowatt-hours

Gigawatt-Hours (GWh) = 1,000 megawatt-hours

### Unit Number (U)

r = Retirement

c = Change or modification of unit

### Unit Type (T)

FS = Fossil Steam

CT = Combustion Turbine

D = Diesel

CC = Combined Cycle

N = Nuclear

UN = Unknown

### Primary Fuel (F)

HO = Heavy Oil

LO = Light Oil

NG = Natural Gas

N = Nuclear

C = Coal

SW = Solid Waste

UN = Unknown

Continued

## Acronyms, Abbreviations, and Formulas

### Capability

MW-S = Megawatt Summer

MW-W = Megawatt Winter

NMPLT = Nameplate

Net summer and winter continuous capacity and generator maximum nameplate rating.

### Load Factor Formula

$$\text{Percent Load Factor} = \frac{\text{Net Energy for Load (MWh)}}{\text{Peak Load (MW)} \times 8,760} \times 100$$

Where:

Net Energy for Load = Total MWh Generated – Plant Use + MWh Received – MWh Delivered

Peak Load = That 60 minute demand interval for which gross generated MWh was highest for the year.

The load factor for a specific utility is an index ranging from zero to one. The load factor reflects the ratio of total MWh actually generated and delivered to ultimate customers to the total MWh that would have been generated and delivered had the utility maintained that level of system net generation observed at the peak period (60 minutes) for every hour of the year, or a total of 8,760 hours.

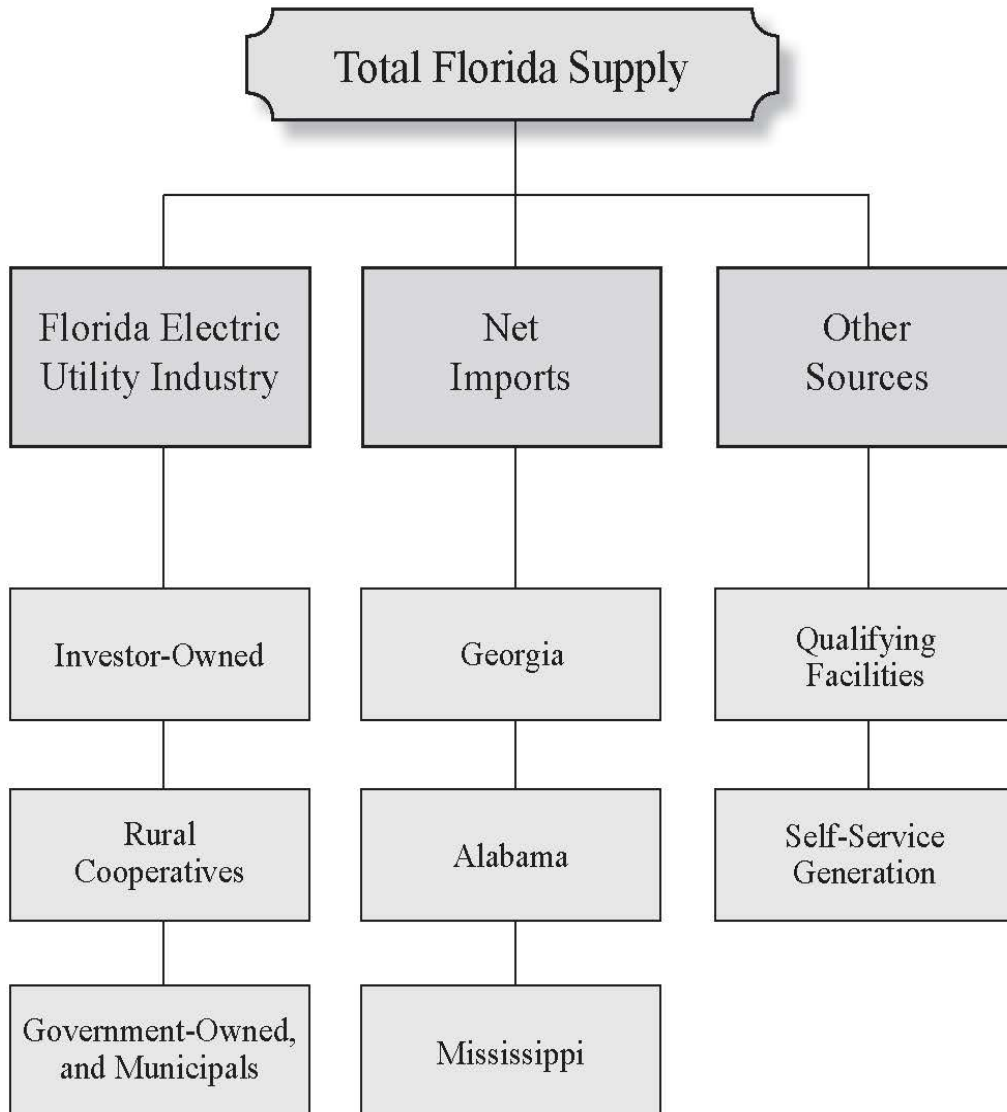
The closer the load factor is to one, the flatter the load curve or the lower the difference between maximum and minimum levels of use is over a one-year period. The closer the load factor is to zero, the greater this difference is, and therefore, the magnitude of peaking across the load curve is greater.



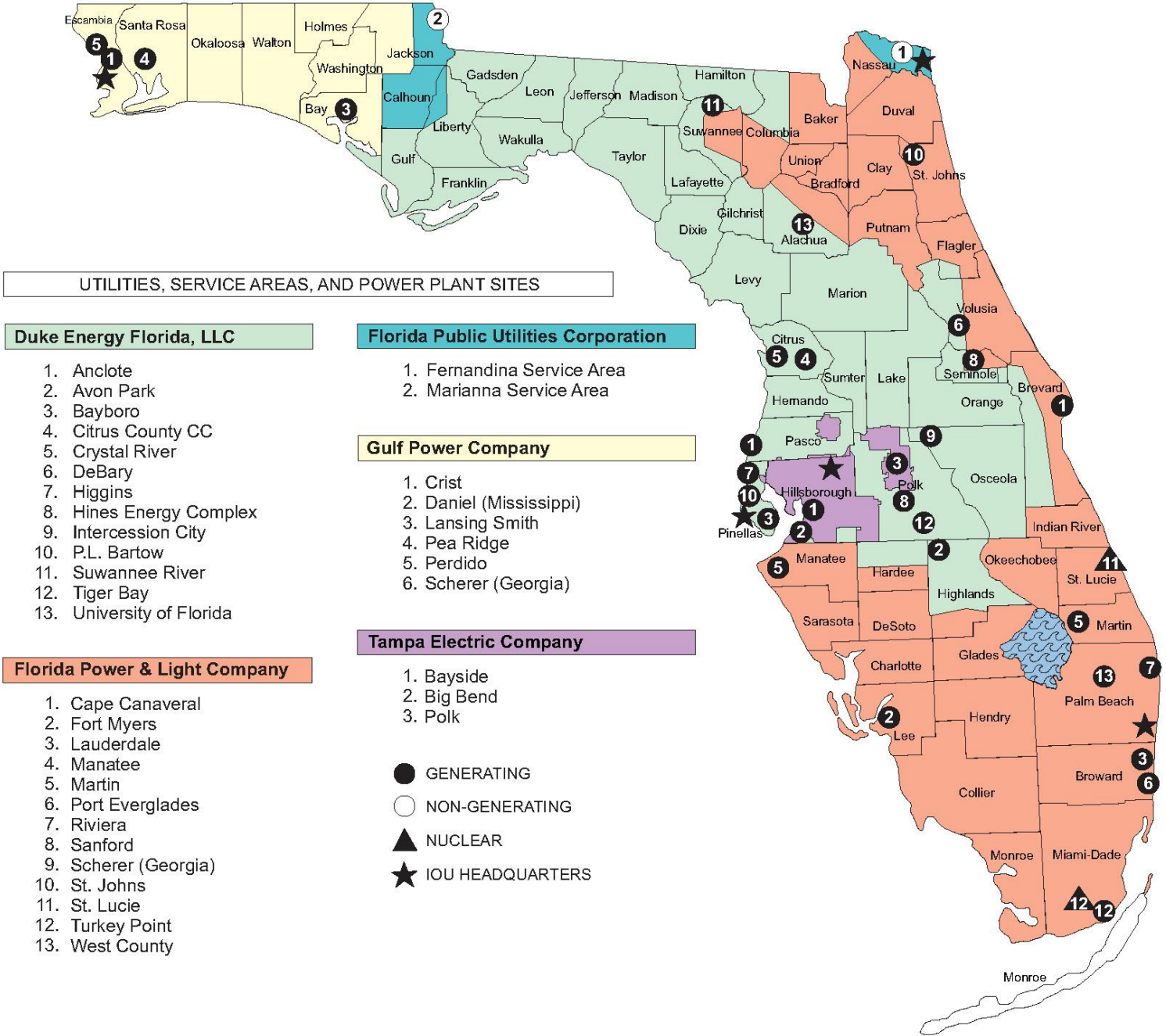
## **Overview**



## Florida Sources of Electricity by Type of Ownership



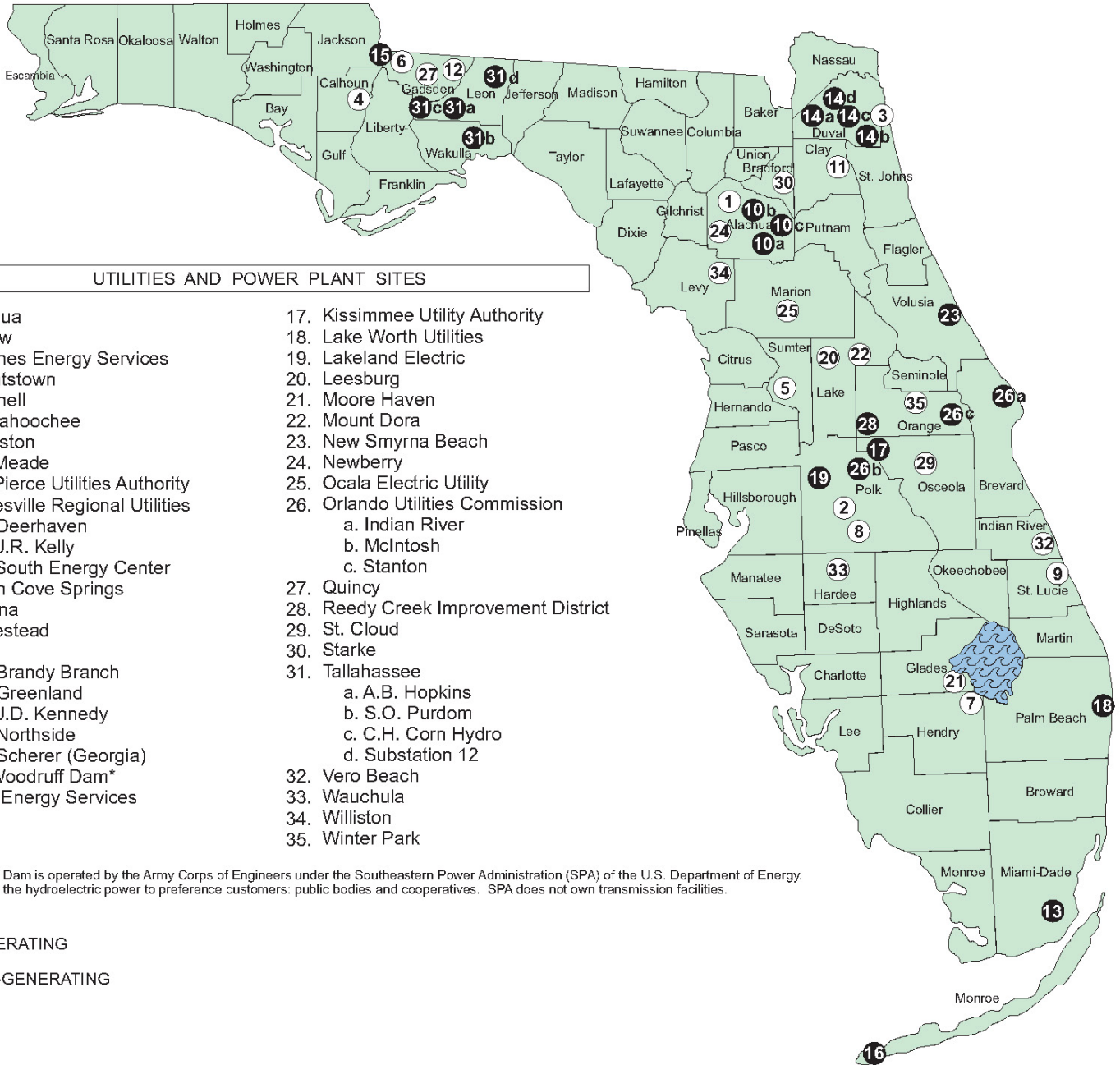
# Investor-Owned Electric 2018



\* Excludes solar generation. Service areas are approximations. Information on this map should be used only as a general guideline. For more detailed information, contact individual utilities.

Source: Florida Public Service Commission.

# Municipal Electric 2018



### UTILITIES AND POWER PLANT SITES

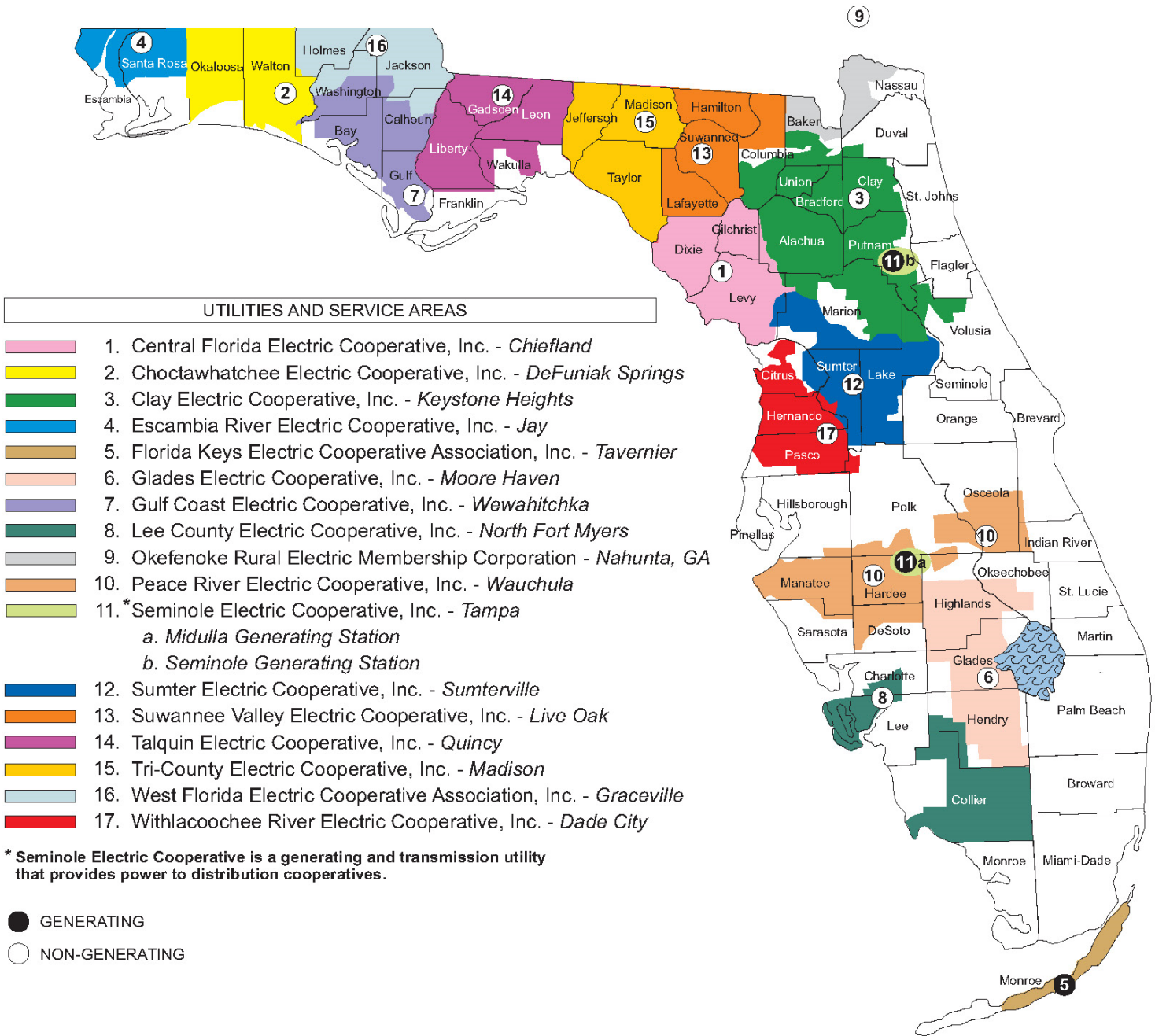
- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>1. Alachua</li> <li>2. Bartow</li> <li>3. Beaches Energy Services</li> <li>4. Blountstown</li> <li>5. Bushnell</li> <li>6. Chattahoochee</li> <li>7. Clewiston</li> <li>8. Fort Meade</li> <li>9. Fort Pierce Utilities Authority</li> <li>10. Gainesville Regional Utilities             <ul style="list-style-type: none"> <li>a. Deerhaven</li> <li>b. J.R. Kelly</li> <li>c. South Energy Center</li> </ul> </li> <li>11. Green Cove Springs</li> <li>12. Havana</li> <li>13. Homestead</li> <li>14. JEA             <ul style="list-style-type: none"> <li>a. Brandy Branch</li> <li>b. Greenland</li> <li>c. J.D. Kennedy</li> <li>d. Northside</li> <li>e. Scherer (Georgia)</li> </ul> </li> <li>15. Jim Woodruff Dam*</li> <li>16. Keys Energy Services</li> </ul> | <ul style="list-style-type: none"> <li>17. Kissimmee Utility Authority</li> <li>18. Lake Worth Utilities</li> <li>19. Lakeland Electric</li> <li>20. Leesburg</li> <li>21. Moore Haven</li> <li>22. Mount Dora</li> <li>23. New Smyrna Beach</li> <li>24. Newberry</li> <li>25. Ocala Electric Utility</li> <li>26. Orlando Utilities Commission             <ul style="list-style-type: none"> <li>a. Indian River</li> <li>b. McIntosh</li> <li>c. Stanton</li> </ul> </li> <li>27. Quincy</li> <li>28. Reedy Creek Improvement District</li> <li>29. St. Cloud</li> <li>30. Starke</li> <li>31. Tallahassee             <ul style="list-style-type: none"> <li>a. A.B. Hopkins</li> <li>b. S.O. Purdom</li> <li>c. C.H. Corn Hydro</li> <li>d. Substation 12</li> </ul> </li> <li>32. Vero Beach</li> <li>33. Wauchula</li> <li>34. Williston</li> <li>35. Winter Park</li> </ul> |
|--|--|

\* Jim Woodruff Dam is operated by the Army Corps of Engineers under the Southeastern Power Administration (SPA) of the U.S. Department of Energy. SPA markets the hydroelectric power to preference customers: public bodies and cooperatives. SPA does not own transmission facilities.

- GENERATING
- NON-GENERATING

\* Excludes solar generation. Service areas are approximations. Information on this map should be used only as a general guideline. For more detailed information, contact individual utilities.

# Rural Electric Cooperatives 2018



\* Excludes solar generation. Service areas are approximations. Information on this map should be used only as a general guideline. For more detailed information, contact individual utilities.

Source: Florida Public Service Commission.









# Florida Electric Utility Industry 2018

## Investor-Owned

Duke Energy Florida, LLC  
Florida Power & Light Company  
Florida Public Utilities Company  
Gulf Power Company  
Tampa Electric Company

## Generating Municipal

Florida Municipal Power Agency \*  
Gainesville Regional Utilities  
Homestead, City of  
JEA (f/k/a Jacksonville Electric Authority)  
Keys Energy Services (f/k/a Key West Utility Board)  
Kissimmee Utility Authority  
Lake Worth Utilities, City of  
Lakeland Electric, City of  
New Smyrna Beach, Utilities Commission of  
Orlando Utilities Commission \*\*  
Reedy Creek Improvement District  
Tallahassee, City of

## Generating Rural Electric Cooperative

Florida Keys Electric Cooperative Association, Inc. \*\*\*  
PowerSouth Energy Cooperative \*  
Seminole Electric Cooperative, Inc. \*  
USCE-Mobile District \*

## Generating - Other

Southeastern Power Administration \*  
(Jim Woodruff Dam)

## Non-Generating Municipal

Alachua, City of  
Bartow, City of  
Beaches Energy Services (f/k/a City of Jacksonville Beach)  
Blountstown, City of  
Bushnell, City of  
Chattahoochee, City of  
Clewiston, City of  
Fort Meade, City of  
Fort Pierce Utilities Authority  
Green Cove Springs, City of  
Havana, Town of  
Leesburg, City of  
Moore Haven, City of  
Mount Dora, City of  
Newberry, City of  
Ocala Electric Utility  
Quincy, City of  
St. Cloud, City of \*\*  
Starke, City of  
Vero Beach, City of  
Wauchula, City of  
Williston, City of  
Winter Park, City of

## Non-Generating Rural Electric Cooperative

Central Florida Electric Cooperative, Inc.  
Choctawhatchee Electric Cooperative, Inc.  
Clay Electric Cooperative, Inc.  
Escambia River Electric Cooperative, Inc.  
Glades Electric Cooperative, Inc.  
Gulf Coast Electric Cooperative, Inc.  
Lee County Electric Cooperative, Inc.  
Okefenoke Rural Electric Membership Corporation ^  
Peace River Electric Cooperative, Inc.  
Sumter Electric Cooperative, Inc.  
Suwannee Valley Electric Cooperative, Inc.  
Talquin Electric Cooperative, Inc.  
Tri-County Electric Cooperative, Inc.  
West Florida Electric Cooperative Association, Inc.  
Withlacoochee River Electric Cooperative, Inc.

\* Wholesale-only generating utility.

\*\* Orlando Utilities Commission serves the City of St. Cloud.

\*\*\* The Florida Keys Electric Cooperative has a standby unit.

^ Okefenoke sells power in Florida and Georgia.

## Counties Served by Generating Electric Utilities 2018

Utility	County
<b>Investor-Owned</b>	
Duke Energy Florida, LLC	Alachua, Bay, Brevard, Citrus, Columbia, Dixie, Flagler, Franklin, Gadsden, Gilchrist, Gulf, Hamilton, Hardee, Hernando, Highlands, Jefferson, Lafayette, Lake, Leon, Levy, Liberty, Madison, Marion, Orange, Osceola, Pasco, Pinellas, Polk, Seminole, Sumter, Suwannee, Taylor, Volusia, Wakulla
Florida Power & Light Company	Alachua, Baker, Bradford, Brevard, Broward, Charlotte, Clay, Collier, Columbia, DeSoto, Duval, Flagler, Glades, Hardee, Hendry, Highlands, Indian River, Lee, Manatee, Martin, Miami-Dade, Monroe, Nassau, Okeechobee, Palm Beach, Putnam, St. Johns, St. Lucie, Sarasota, Seminole, Suwannee, Union, Volusia
Gulf Power Company	Bay, Escambia, Holmes, Jackson, Okaloosa, Santa Rosa, Walton, Washington
Tampa Electric Company	Hillsborough, Pasco, Pinellas, Polk
<b>Municipal</b>	
Gainesville Regional Utilities	Alachua
Homestead	Miami-Dade
JEA	Clay, Duval, St. Johns
Keys Energy Services	Monroe
Kissimmee Utility Authority	Osceola
Lake Worth Utilities	Palm Beach
Lakeland Electric	Polk
New Smyrna Beach	Volusia
Orlando Utilities Commission *	Orange, Osceola
Reedy Creek Improvement District	Orange, Osceola
Tallahassee	Leon
<b>Rural Electric Cooperative</b>	
Florida Keys Electric Cooperative Association **	Monroe

\* Orlando Utilities Commission serves the City of St. Cloud.

\*\* The Florida Keys Electric Cooperative has a standby unit.

## Counties Served by Non-Generating Electric Utilities 2018

Utility	County
<b>Investor-Owned</b>	
Florida Public Utilities Company	Calhoun, Jackson, Liberty, Nassau
<b>Municipal</b>	
Alachua	Alachua
Bartow	Polk
Beaches Energy Services	Duval, St. Johns
Blountstown	Calhoun
Bushnell	Sumter
Chattahoochee	Gadsden
Clewiston	Hendry
Fort Meade	Polk
Fort Pierce Utilities Authority	St. Lucie
Green Cove Springs	Clay
Havana	Gadsden
Leesburg	Lake
Moore Haven	Glades
Mount Dora	Lake
Newberry	Alachua
Ocala Electric Utility	Marion
Quincy	Gadsden
Starke	Osceola
St. Cloud *	Bradford
Vero Beach	Indian River
Wauchula	Hardee
Williston	Levy
Winter Park	Orange
<b>Rural Electric Cooperative</b>	
Central Florida Electric	Alachua, Dixie, Gilchrist, Lafayette, Levy, Marion
Choctawhatchee Electric	Holmes, Okaloosa, Santa Rosa, Walton
Clay Electric	Alachua, Baker, Bradford, Clay, Columbia, Flagler, Gilchrist, Lake, Levy, Marion, Putnam, Suwannee, Union, Volusia
Escambia River Electric	Escambia, Santa Rosa
Glades Electric	Glades, Hendry, Highlands, Okeechobee
Gulf Coast Electric	Bay, Calhoun, Gulf, Jackson, Walton, Washington
Lee County Electric	Charlotte, Collier, Hendry, Lee
Okefenoke Rural Electric **	Baker, Nassau
Peace River Electric	Brevard, DeSoto, Hardee, Highlands, Hillsborough, Indian River, Manatee, Osceola, Polk, Sarasota
Sumter Electric	Citrus, Hernando, Lake, Levy, Marion, Pasco, Sumter
Suwannee Valley Electric	Columbia, Hamilton, Lafayette, Suwannee
Talquin Electric	Franklin, Gadsden, Leon, Liberty, Wakulla
Tri-County Electric	Dixie, Jefferson, Madison, Taylor
West Florida Electric Cooperative Association	Calhoun, Holmes, Jackson, Washington
Withlacoochee River Electric	Citrus, Hernando, Pasco, Polk, Sumter

\* The City of St. Cloud is served by Orlando Utilities Commission.

\*\* Okefenokee sells power in Florida and Georgia; figures reflect Florida customers only.

## Highlights of the Florida Electric Utility Industry 2014-2018

	2014	2015	2016	2017	2018
Total Installed Capacity (Megawatts) *	58,888	58,422	58,295	58,506	56,359
Installed Capacity by Fuel Type (Percentage)					
Natural Gas	55%	55%	58%	63%	63%
Coal	21	21	17	20	20
Nuclear	6	6	6	6	6
Other **	18	18	18	11	11
Total *	100%	100%	100%	100%	100%
Energy Sales (Gigawatt-hours)					
Residential	116,529	122,535	123,449	121,687	125,089
Commercial	76,238	88,530	85,147	84,617	86,241
Industrial	25,913	16,617	20,848	20,670	20,782
Other	7,998	6,437	6,708	6,746	6,784
Total	226,678	234,119	236,152	233,720	238,896
Number of Customers (Thousands)					
Residential	8,881	9,130	9,197	9,398	9,515
Commercial	1,079	1,133	1,134	1,150	1,164
Industrial	41	20	29	28	25
Other	199	132	135	143	157
Total	10,200	10,415	10,495	10,719	10,861
Average Residential Bill (1,000 kWh) ***	\$125.50	\$116.62	\$113.58	\$115.86	\$113.77

\* May not total due to rounding.

\*\* Other includes: oil, interchange, non-utility generation, and renewables.

\*\*\* Unweighted average of all utilities: investor-owned, municipal, and rural electric cooperative.

Source: Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry; Florida Public Service Commission, Review of Ten-Year Site Plan, Nov. 2018; Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2019), FRCC Form 1.0, p. S-7; Responses to staff data request.

**Financial Statistics of  
Investor-Owned Utilities (IOUs)**



Table 1  
**Rate of Return**  
**2014-2018**

	2014	2015	2016	2017	2018
<b>Average per Book Rate of Return</b>					
Duke Energy Florida, LLC	6.10%	5.70%	5.97%	6.39%	5.94%
Florida Power & Light Company	7.58	7.59	7.30	6.95	7.29
Gulf Power Company	5.55	5.45	5.01	5.41	4.02
Tampa Electric Company	6.56	6.52	6.36	6.31	6.26
<b>Average Adjusted Rate of Return</b>					
Duke Energy Florida, LLC	6.48%	6.70%	6.34%	6.38%	5.92%
Florida Power & Light Company	6.81	6.84	6.63	6.32	6.70
Gulf Power Company	5.73	5.79	5.18	5.68	5.84
Tampa Electric Company	6.66	6.64	6.48	6.41	6.24
<b>FPSC Authorized Rate of Return *</b>					
Duke Energy Florida, LLC	7.02%	6.90%	6.65%	6.68%	6.53%
Florida Power & Light Company	6.34	6.37	6.17	6.09	6.22
Gulf Power Company	5.75	5.56	5.45	5.47	5.54
Tampa Electric Company	6.30	6.22	6.12	6.03	6.10
<b>Adjusted Jurisdictional Year-End Rate Base (Millions)</b>					
Duke Energy Florida, LLC	\$9,556	\$10,133	\$10,485	\$11,339	\$13,186
Florida Power & Light Company	26,472	27,760	31,457	34,619	36,816
Gulf Power Company	1,930	2,000	2,106	2,487	2,610
Tampa Electric Company	4,248	4,445	4,724	5,592	6,100

\* Average Capital Structure - Midpoint.

Table 2  
**Sources of Revenue**  
**(Percentage of Total Sales) \***  
**2014-2018**

	2014	2015	2016	2017	2018
<b>Duke Energy Florida, LLC</b>					
Residential	55.84%	56.32%	57.78%	57.71%	58.36%
Commercial	26.28	25.98	25.39	26.08	26.01
Industrial	6.30	6.21	5.82	5.92	5.55
Other	6.89	6.80	6.56	6.76	6.66
Sales for Resale	4.69	4.70	4.45	3.52	3.42
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>
<b>Total Sales (Millions)</b>	<b>\$4,578.10</b>	<b>\$4,661.86</b>	<b>\$4,160.85</b>	<b>\$4,248.08</b>	<b>\$4,644.95</b>
<b>Florida Power &amp; Light Company</b>					
Residential	55.35%	56.14%	56.46%	56.77%	56.96%
Commercial	37.42	36.79	36.59	36.52	35.88
Industrial	1.85	1.81	1.77	1.75	1.71
Other	0.80	0.79	0.82	0.85	0.80
Sales for Resale	4.58	4.47	4.37	4.12	4.65
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>
<b>Total Sales (Millions)</b>	<b>\$11,016.83</b>	<b>\$11,196.35</b>	<b>\$10,532.48</b>	<b>\$11,421.96</b>	<b>\$11,231.75</b>
<b>Gulf Power Company</b>					
Residential	45.93%	49.30%	50.55%	49.86%	49.83%
Commercial	26.73	28.78	28.83	28.53	27.11
Industrial	9.99	10.43	10.63	9.97	9.35
Other	0.30	0.31	0.31	0.33	0.36
Sales for Resale	17.05	11.17	9.69	11.31	13.35
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>
<b>Total Sales (Millions)</b>	<b>\$1,518.01</b>	<b>\$1,489.56</b>	<b>\$1,415.66</b>	<b>\$1,443.92</b>	<b>\$1,400.38</b>
<b>Tampa Electric Company</b>					
Residential	51.17%	52.29%	52.55%	52.44%	53.12%
Commercial	30.58	30.56	30.11	30.11	28.99
Industrial	8.35	8.05	8.17	8.24	8.02
Other	9.24	8.91	8.85	8.78	9.33
Sales for Resale	0.66	0.19	0.32	0.43	0.54
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>
<b>Total Sales (Millions)</b>	<b>\$1,969.01</b>	<b>\$1,989.34</b>	<b>\$1,970.65</b>	<b>\$1,917.86</b>	<b>\$2,009.25</b>

\* May not total due to rounding.

Source: Florida Public Service Commission, 2018 Annual Report, FERC Form No. 1, p. 300; Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry.



Table 3  
**Uses of Revenue**  
**(Percentage of Total Operating Revenue) \***  
**2014-2018**

	2014	2015	2016	2017	2018
<b>Duke Energy Florida, LLC</b>					
Fuel	31.56%	27.38%	26.64%	27.84%	27.09%
Other Operation and Maintenance	30.33	29.86	35.68	32.77	34.61
Depreciation and Amortization	9.86	14.06	7.47	7.93	12.38
Taxes Other Than Income Taxes	6.92	7.10	7.42	7.66	7.62
Income Taxes	6.76	6.27	6.74	6.78	2.08
Interest	3.98	4.01	4.36	5.48	5.24
Net Operating Income Less Interest	10.60	11.32	11.70	11.56	10.98
Total	100%	100%	100%	100%	100%
Total Operating Revenue (Millions)	\$4,940.40	\$4,936.08	\$4,469.85	\$4,512.68	\$4,887.81
<b>Florida Power &amp; Light Company</b>					
Fuel	31.34%	28.66%	26.68%	26.84%	28.40%
Other Operation and Maintenance	20.74	21.99	18.36	28.10	13.12
Depreciation and Amortization	11.55	12.07	12.74	4.39	19.32
Taxes Other Than Income Taxes	10.44	10.55	11.17	11.15	11.36
Income Taxes	8.78	8.45	10.08	11.04	4.51
Interest	3.73	3.72	4.12	4.00	4.62
Net Operating Income Less Interest	13.41	14.57	16.86	14.47	18.67
Total	100%	100%	100%	100%	100%
Total Operating Revenue (Millions)	\$11,189.33	\$11,467.74	\$10,691.84	\$11,594.06	\$11,497.89
<b>Gulf Power Company</b>					
Fuel	37.92%	29.98%	29.07%	28.17%	28.70%
Other Operation and Maintenance	28.29	32.97	32.24	33.90	35.88
Depreciation and Amortization	9.16	9.07	10.85	8.93	12.87
Taxes Other Than Income Taxes	6.99	7.94	8.07	7.67	8.04
Income Taxes	5.53	6.09	5.87	6.94	-1.01
Interest	3.35	3.72	3.70	3.31	3.63
Net Operating Income Less Interest	8.76	10.24	10.21	11.07	11.89
Total	100%	100%	100%	100%	100%
Total Operating Revenue (Millions)	\$1,590.59	\$1,483.01	\$1,484.63	\$1,516.49	\$1,465.15
<b>Tampa Electric Company</b>					
Fuel	35.73%	31.78%	28.73%	30.99%	30.71%
Other Operation and Maintenance	23.83	24.01	25.82	22.22	26.91
Depreciation and Amortization	11.20	13.88	15.58	11.33	12.43
Taxes Other Than Income Taxes	7.63	7.62	7.72	8.15	8.14
Income Taxes	6.53	6.98	6.39	8.49	3.14
Interest	4.60	4.66	4.53	5.24	4.95
Net Operating Income Less Interest	10.49	11.08	11.23	13.58	13.71
Total	100%	100%	100%	100%	100%
Total Operating Revenue (Millions)	\$2,029.54	\$2,053.05	\$2,024.12	\$1,987.79	\$2,068.73

\* May not total due to rounding.

Source: Florida Public Service Commission, 2018 Annual Report, FERC Form No. 1, pp. 114, 117, 311, 320-321, and 323; Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry.

Table 4  
**Proprietary Capital and Long-Term Debt \***  
**December 31, 2018**

	Duke Energy Florida, LLC	Florida Power & Light Company	Gulf Power Company	Tampa Electric Company
<b>Proprietary Capital (Thousands)</b>				
Common Stock	\$0	\$1,373,069	\$678,060	\$119,697
Preferred Stock	0	0	0	0
Retained Earnings	4,325,407	9,046,543	265,343	197,570
Other Paid-In Capital	1,766,035	10,605,413	977,157	2,550,840
Other Adjustments	7,006	-3,741	-529	-1,708
<b>Total Proprietary Capital</b>	<b>\$6,098,448</b>	<b>\$21,021,284</b>	<b>\$1,920,031</b>	<b>\$2,866,399</b>
<b>Long-Term Debt (Thousands)</b>				
Bonds	\$5,525,000	\$11,483,271	\$0	\$2,291,730
Other Long-Term Debt and/or Adjustments	564,107	153,030	1,294,597	-5,967
<b>Total Long-Term Debt</b>	<b>\$6,089,107</b>	<b>\$11,636,301</b>	<b>\$1,294,597</b>	<b>\$2,285,763</b>
<b>Total Proprietary Capital and Long-Term Debt</b>	<b>\$12,187,555</b>	<b>\$32,657,585</b>	<b>\$3,214,628</b>	<b>\$5,152,162</b>
<b>Proprietary Capital (Percent)</b>				
Common Stock	0.0%	4.2%	21.1%	2.3%
Preferred Stock	0.0	0.0	0.0	0.0
Retained Earnings	35.5	27.7	8.3	3.8
Other Paid-In Capital	14.5	32.5	30.4	49.5
Other Adjustments	0.1	0.0	0.0	0.0
<b>Total Proprietary Capital</b>	<b>50.0%</b>	<b>64.4%</b>	<b>59.7%</b>	<b>55.7%</b>
<b>Long-Term Debt (Percent)</b>				
Bonds	45.3%	35.2%	0.0%	44.5%
Other Long-Term Debt and/or Adjustments	4.6	0.5	40.3	-0.1
<b>Total Long-Term Debt</b>	<b>49.9%</b>	<b>35.6%</b>	<b>40.2%</b>	<b>44.4%</b>
<b>Total Proprietary Capital and Long-Term Debt</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

\* May not total due to rounding.

Table 5  
**Financial Integrity Indicators**  
**2014-2018**

	2014	2015	2016	2017	2018
<b>Times Interest Earned with AFUDC</b>					
Duke Energy Florida, LLC	4.35 x	4.35 x	5.01 x	3.59 x	3.24 x
Florida Power & Light Company	6.38	6.61	6.84	6.96	5.79
Gulf Power Company	5.05	5.09	5.21	5.56	3.62
Tampa Electric Company	4.64	4.70	4.68	5.23	4.34
<b>Times Interest Earned without AFUDC</b>					
Duke Energy Florida, LLC	4.34 x	4.31 x	4.82 x	3.35 x	2.99 x
Florida Power & Light Company	6.27	6.42	6.64	6.76	5.59
Gulf Power Company	4.75	4.79	5.21	5.55	3.62
Tampa Electric Company	4.48	4.45	4.34	5.20	4.20
<b>AFUDC as a Percentage of Net Income</b>					
<b>Interest Coverage Ratio</b>					
Duke Energy Florida, LLC	0.24 %	1.76 %	6.29 %	8.35 %	5.05 %
Florida Power & Light Company	2.94	4.88	5.09	4.90	5.00
Gulf Power Company	10.93	10.80	-0.01	0.07	0.08
Tampa Electric Company	6.08	9.26	12.44	0.75	4.73
<b>Percent Internally Generated Funds</b>					
Duke Energy Florida, LLC	116.65 %	82.02 %	96.78 %	69.21 %	62.87 %
Florida Power & Light Company	64.75	74.83	82.44	45.38	82.29
Gulf Power Company	51.15	100.65	142.32	90.11	9.95
Tampa Electric Company	62.78	75.04	87.81	112.53	52.82

Source: Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry; Florida Public Service Commission, December 2018 Earnings Surveillance Report, Schedule 1.



## **Net Generation**



Table 6  
**Net Energy for Load**  
**2009-2018**

Year	Total Net Energy for Load (Gigawatt-Hours)	Investor-Owned		Other *	
		Quantity (Gigawatt-Hours)	Percent of Total	Quantity (Gigawatt-Hours)	Percent of Total
2009	239,414	187,345	78.3%	52,069	21.7%
2010	247,169	193,820	78.4	53,349	21.6
2011	237,658	186,328	78.4	51,330	21.6
2012	234,366	182,998	78.1	51,368	21.9
2013	235,025	183,156	77.9	51,869	22.1
2014	238,611	188,310	78.9	50,301	21.1
2015	248,406	197,137	79.4	51,269	20.6
2016	248,019	196,676	79.3	51,343	20.7
2017	246,033	195,679	79.5	50,354	20.5
2018	249,266	199,390	80.0	49,876	20.0

\* Includes municipal, rural electric cooperative, and federally-owned utilities.

Table 7  
**Net Energy for Load (NEL) by Fuel Type and Other Sources \***  
**2009-2018**

Year	Coal		Oil		Natural Gas		Nuclear		Hydro		NEL		Other Sources		NEL Total
	Gigawatt-Hours	Percent	Gigawatt-Hours	Percent	Gigawatt-Hours	Percent	Gigawatt-Hours	Percent	Gigawatt-Hours	Percent	Subtotal	NUG **	Other ***		
2009	57,901	27.6%	6,283	3.0%	116,062	55.4%	29,202	13.9%	28	0.0%	209,476	2,956	26,982	239,414	
2010	61,323	28.3	5,925	2.7	125,546	57.8	24,215	11.2	25	0.0	217,034	2,971	27,164	247,169	
2011	56,014	25.8	1,178	0.5	137,243	63.2	22,828	10.5	8	0.0	217,271	2,611	17,776	237,658	
2012	47,542	21.8	682	0.3	151,856	69.6	18,088	8.3	9	0.0	218,177	2,982	13,207	234,366	
2013	50,775	23.3	487	0.2	140,187	64.3	26,672	12.2	29	0.0	218,150	3,182	13,693	235,025	
2014	55,410	24.7	447	0.2	140,348	62.6	27,730	12.4	162	0.1	224,097	1,799	12,715	238,611	
2015	46,685	20.2	592	0.3	156,348	67.5	27,872	12.0	162	0.1	231,659	1,841	14,906	248,406	
2016	43,638	18.9	1,733	0.8	156,007	67.7	29,052	12.6	25	0.0	230,455	171	17,393	248,019	
2017	42,573	18.4	487	0.2	159,719	68.9	29,080	12.5	17	0.0	231,876	1,942	12,215	246,033	
2018	37,798	16.0	527	0.2	169,438	71.5	29,153	12.3	24	0.0	236,940	148	14,004	251,092	

\* May not total due to rounding.

\*\* Non-utility generation.

\*\*\* Includes net interchange, non-hydro renewables, and other.

Source: Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry; Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2019), FRCC Form 9.1, p. S-17.



Table 8

**Projected Net Energy for Load by Fuel Type and Other Sources  
(Gigawatt-Hours)  
2019-2028**

Year	Net Energy for Load	Interchange & Other *	Nuclear	Coal	Oil	Natural Gas	Hydro	NUG
2019	248,490	15,287	31,486	37,486	140	161,963	19	2,109
2020	250,625	17,151	31,559	36,932	68	162,779	19	2,117
2021	252,352	18,622	31,481	38,166	72	161,880	19	2,112
2022	254,286	24,919	31,458	35,183	70	160,523	19	2,114
2023	255,658	26,016	31,486	28,319	61	167,642	19	2,115
2024	258,007	27,278	31,546	29,434	91	168,640	19	999
2025	259,742	26,405	31,462	30,443	109	170,614	19	690
2026	261,844	28,038	31,468	30,165	139	171,818	19	197
2027	264,070	27,817	31,445	31,196	152	173,243	19	198
2028	265,332	36,204	30,865	26,804	86	171,215	5	155

\* Includes net interchange, non-hydro renewables, and other.

Table 9

**Projected Net Energy for Load by Percentage of Fuel Type and Other Sources  
2019-2028**

Year	Net Energy for Load *	Interchange & Other **	Nuclear	Coal	Oil	Natural Gas	Hydro	NUG
2019	100%	6.15%	12.67%	15.09%	0.06%	65.18%	0.01%	0.85%
2020	100	6.84	12.59	14.74	0.03	64.95	0.01	0.84
2021	100	7.38	12.48	15.12	0.03	64.15	0.01	0.84
2022	100	9.80	12.37	13.84	0.03	63.13	0.01	0.83
2023	100	10.18	12.32	11.08	0.02	65.57	0.01	0.83
2024	100	10.57	12.23	11.41	0.04	65.36	0.01	0.39
2025	100	10.17	12.11	11.72	0.04	65.69	0.01	0.27
2026	100	10.71	12.02	11.52	0.05	65.62	0.01	0.08
2027	100	10.53	11.91	11.81	0.06	65.60	0.01	0.07
2028	101	13.64	11.63	10.10	0.03	64.53	0.00	0.06

\* May not total due to rounding.

\*\*Includes net interchange, non-hydro renewables, and non-utility generation.

## **Generating Capacity and Capability**



Table 10  
**Installed Nameplate Capacity/Firm Summer Net Capability  
(Megawatts)  
2009-2018**

Year	Hydro-Electric	Conventional Steam	Nuclear Steam	Combustion Turbine	Internal Combustion	Combined Cycle	Solar Photovoltaic	Total *
2009	52	19,611	3,991	8,096	184	20,275	0	52,208
2010	52	20,563	3,913	7,278	175	21,245	0	53,226
2011	52	19,909	3,947	8,013	171	22,908	0	54,999
2012	52	17,837	3,471	8,697	153	22,192	0	52,402
2013	52	17,837	3,471	8,697	153	22,192	0	52,402
2014	52	17,684	3,600	7,755	115	25,312	15	54,533
2015	51	17,616	3,599	7,940	108	24,866	15	54,195
2016	51	16,774	3,599	7,345	108	26,130	132	54,139
2017	51	16,649	3,599	6,830	125	27,662	148.1	55,064
2018	51	12,770	3,625	7,563	134	28,137	599	52,879

\* May not total due to rounding.

Source: Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry; Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2019), FRCC Form 1.0, pp. 8-20, S-8, and S-9.

Table 11

**Installed Nameplate Capacity/Summer Net Capability  
by Type of Ownership  
(Megawatts)  
2009-2018**

Year	Total for State *	Investor-Owned		Municipal, Rural Electric Cooperative, and Other **	
		Quantity	Percent of Total	Quantity	Percent of Total
2009	52,208	39,788	76.21%	12,420	23.79%
2010	53,226	40,161	75.45	13,065	24.55
2011	54,999	41,367	75.21	13,633	24.79
2012	52,402	38,890	74.22	13,512	25.78
2013	52,402	38,890	74.22	13,512	25.78
2014	54,533	41,266	75.67	13,267	24.33
2015	54,195	41,018	75.69	13,177	24.31
2016	54,139	41,050	75.82	13,089	24.18
2017	55,064	41,915	76.12	13,149	23.88
2018	52,879	40,793	77.14	12,086	22.86

\* May not total due to rounding.

\*\* USCE-Mobile District and Jim Woodruff Dam.

Source: Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry; Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2019), FRCC Form 1.0, pp. 7-20, S-8, and S-9.

Table 12  
**Installed Capacity by Fuel and Technology**  
**(Megawatts)**  
**2016-2018**

Fuel	Technology	2016	2017	2018
<b>Natural Gas</b>	Combined Cycle	24,384	25,758	27,321
	Turbine & Diesel	6,107	6,280	5,555
	Steam	2,057	5,060	5,060
<b>Total Natural Gas</b>		32,548	37,098	37,936
<b>Percentage of Total</b>		58.38%	62.70%	63.29%
<b>Coal</b>	Steam	9,161	11,736	11,486
	Combined Cycle	220	220	220
<b>Total Coal</b>		9,381	11,956	11,706
<b>Percentage of Total</b>		16.83%	20.21%	19.53%
<b>Oil</b>	Turbine & Diesel	2,390	1,551	1,518
	Steam	3,640	0	0
<b>Total Oil</b>		6,030	1,551	1,518
<b>Percentage of Total</b>		10.82%	2.62%	2.53%
<b>Nuclear</b>	Steam	3,599	3,599	3,599
	<b>Total Nuclear</b>		3,599	3,599
<b>Percentage of Total</b>		6.46%	6.08%	6.00%
<b>Other *</b>			4,197	4,968
	<b>Total Other</b>		4,197	4,968
<b>Percentage of Total</b>		7.53%	8.40%	8.64%
<b>Total Installed Capacity</b>		55,755	59,172	59,939
<b>Percentage of Total **</b>		100%	100%	100%

\* Includes all renewable resources, net interchange, and non-utility generation.

\*\* May not total due to rounding.

Table 13  
**Installed Winter and Summer Net Capacity by Utility \***  
**(Megawatts)**  
**2017-2018**

Utility	Winter Net Capacity		Summer Net Capacity	
	2017	2018	2017	2018
<b>Investor-Owned</b>				
Duke Energy Florida, LLC	9,807	10,865	8,720	9,792
Florida Power & Light Company	27,772	25,008	26,120	23,971
Gulf Power Company	2,311	2,304	2,272	2,265
Tampa Electric Company	5,196	5,071	4,803	4,764
<b>Generating Municipal</b>				
Florida Municipal Power Agency **	1,324	1,324	1,284	1,284
Gainesville Regional Utilities	659	661	630	631
Homestead	32	32	32	32
JEA	4,110	3,104	3,769	2,771
Keys Energy Services	37	37	37	37
Kissimmee Utility Authority	254	254	242	242
Lake Worth Utilities	80	80	77	77
Lakeland Electric	890	890	844	844
New Smyrna Beach	48	48	44	44
Orlando Utilities Commission ***	1,531	1,531	1,493	1,493
Reedy Creek Improvement District	54	54	54	54
Tallahassee	772	702	700	632
<b>Generating Rural Electric Cooperative</b>				
PowerSouth Energy **	2,086	2,060	1,887	1,861
Seminole Electric **	2,178	2,215	2,012	2,041
USCE-Mobile District **	44	44	44	44
<b>Total Utility ^</b>	<b>59,185</b>	<b>56,284</b>	<b>55,064</b>	<b>52,879</b>
<b>Total Non-Utility ^^</b>	<b>3,709</b>	<b>3,737</b>	<b>3,442</b>	<b>3,480</b>
<b>Total State of Florida ^</b>	<b>62,894</b>	<b>60,021</b>	<b>58,506</b>	<b>56,359</b>

\* Includes generation physically located outside Florida if it serves load in Florida.

\*\* Wholesale-only generating utility.

\*\*\* The City of St. Cloud is included in the figures of Orlando Utilities Commission.

^ May not total due to rounding.

^^ Does not include the capacity of merchant plants.

Source: Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry; Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2019), FRCC Form 1.0, pp. 7 and S-7.



Table 14  
**Summer Net Capacity by Generation by Utility \***  
**(Megawatts)**  
**December 31, 2018**

Utility	Hydro-Electric	Conventional Steam	Nuclear Steam	Combustion Turbine	Internal Combustion	Combined Cycle	Solar photovoltaic	Total
<b>Investor-Owned</b>								
Duke Energy Florida, LLC	0	2,425	0	2,092	0	5,224	51	9,792
Florida Power & Light Company	0	2,252	3,479	2,195	0	15,594	452	23,972
Gulf Power Company	0	1,641	0	12	3	609	0	2,265
Tampa Electric Company	0	1,477	0	880	0	2,311	96	4,764
<b>Generating Municipal</b>								
Florida Municipal Power Agency **	0	240	86	161	0	796	0	1,284
Gainesville Regional Utilities	0	406	0	110	7	108	0	631
Homestead	0	0	0	0	32	0	0	32
JEA	0	1,308	0	812	0	651	0	2,771
Keys Energy Services	0	0	0	19	18	0	0	37
Kissimmee Utility Authority	0	21	0	25	0	196	0	242
Lake Worth Utilities	0	31	0	46	0	0	0	77
Lakeland Electric	0	311	0	35	55	443	0	844
New Smyrna Beach	0	0	0	44	0	0	0	44
Orlando Utilities Commission ***	0	760	60	197	0	476	0	1,493
Reedy Creek Improvement District	0	0	0	0	0	54	0	54
Tallahassee	0	0	0	92	18	522	0	632
<b>Generating Rural Electric Cooperative</b>								
PowerSouth Energy **	7	639	0	574	0	641	0	1,861
Seminole Electric **	0	1,260	0	270	0	511	0	2,041
USCE-Mobile District **	44	0	0	0	0	0	0	44
<b>Total Utility ^</b>	<b>51</b>	<b>12,770</b>	<b>3,625</b>	<b>7,563</b>	<b>134</b>	<b>28,137</b>	<b>599</b>	<b>52,880</b>
Total Non-Utility ^^								3,480
<b>Total State of Florida ^</b>	<b>51</b>	<b>12,770</b>	<b>3,625</b>	<b>7,563</b>	<b>134</b>	<b>28,137</b>	<b>599</b>	<b>56,360</b>

\* Includes generation physically located outside Florida if it serves load in Florida.

\*\* Wholesale-only generating utility.

\*\*\* The City of St. Cloud is included in the figures of Orlando Utilities Commission.

^ May not total due to rounding.

^^ Does not include the capacity of merchant plants.

Table 15  
**Nuclear Generating Units**  
**December 31, 2018**

Utility	Location	Commercial In-Service Month/Year	Maximum Nameplate Rating kW	Net Capacity	
				Summer MW	Winter MW
<u>Florida Power &amp; Light Company</u>					
St. Lucie #1	St. Lucie County	May-76	1,080,000	981	1,003
St. Lucie #2	St. Lucie County	Jun-83	919,128	840 *	860 *
Turkey Point #3	Miami-Dade County	Dec-72	877,200	837	859
Turkey Point #4	Miami-Dade County	Sep-73	877,200	821	848

\* 14.9% of plant capacity is owned by Orlando Utilities Commission and Florida Municipal Power Agency; figures shown represent FP&L share.

Table 16, Page 1 of 2

**Annual Peak Demand  
(Megawatts)  
2014-2018**

Utility	2014	2015	2016	2017	2018
<b>Investor-Owned</b>					
Duke Energy Florida, LLC	9,219	9,475	9,728	9,296	10,323
Florida Power & Light Company	22,935	22,959	23,858	23,373	23,217
Florida Public Utilities Company	NR *	161	147	144	163
Gulf Power Company	2,694	2,495	2,508	2,434	2,809
Tampa Electric Company	4,054	4,013	4,131	4,115	4,044
<b>Generating Municipal</b>					
Florida Municipal Power Agency **	NR	NR	1296	1,263	1,281
Gainesville Regional Utilities	409	421	428	418	410
Homestead	101	102	105	110	106
JEA	2,823	2,863	2,763	2,727	3,080
Keys Energy Services	144	148	148	149	146
Kissimmee Utility Authority	327	335	354	353	356
Lake Worth Utilities	92	93	96	95	95
Lakeland Electric	627	656	646	643	704
New Smyrna Beach	91	101	101	97	108
Orlando Utilities Commission ***	1,297	1,171	1,189	1,378	1,341
Reedy Creek Improvement District	190	189	195	191	188
Tallahassee	574	600	597	598	621
<b>Non-Generating Municipal</b>					
Alachua	26	27	28	28	29
Bartow	59	65	63	63	68
Beaches Energy Services	192	195	178	171	211
Blountstown	9	9	8	9	7,296
Bushnell	6	7	6	6	7
Chattahoochee	8	8	8	7	7
Clewiston	21	22	22	22	NR *
Fort Meade	10	11	9	9	12
Fort Pierce Utilities Authority	106	107	112	112	112
Green Cove Springs	27	28	26	25	31
Havana	6	6	6	6	7

\* Not Reported.

\*\* Wholesale-only generating utility.

\*\*\* The City of St. Cloud is included in the figures of Orlando Utilities Commission.

Table 16, Page 2 of 2

**Annual Peak Demand  
(Megawatts)  
2014-2018**

Utility	2014	2015	2016	2017	2018
<b>Non-Generating Municipal (Continued)</b>					
Leesburg	100	106	112	116	116
Moore Haven	3	36	4	4	4
Mount Dora	22	22	22	22	23
Newberry	8	9	8	8	10
Ocala Electric Utility	285	287	305	291	296
Quincy	30	28	26	13	13
Starke	15	15	16	15	17
Vero Beach	159	167	161	157	162
Wauchula	13	13	14	14	14
Williston	8	8	9	8	10
Winter Park	96	95	79	83	77
<b>Generating &amp; Non-Generating Rural Electric Cooperative</b>					
Central Florida Electric	128	136	129	123	147
Choctawhatchee Electric	234	225	192	205	0
Clay Electric	775	839	788	735	921
Escambia River Electric	59	55	46	51	64
Florida Keys Electric	156	161	149	154	150
Glades Electric	76	78	68	67	73
Gulf Coast Electric	104	100	90	90	111
Lee County Electric	816	885	868	877	885
Okefenoke Rural Electric *	31	31	28	27	33
Peace River Electric	139	154	161	164	177
PowerSouth Energy **	541	510	440	470	578
Seminole Electric **	3,218	3,403	3,318	4,010	4,024
Sumter Electric	714	805	788	756	889
Suwannee Valley Electric	117	120	107	120	123
Talquin Electric	285	279	253	268	299
Tri-County Electric	72	71	70	67	77
West Florida Electric	136	139	123	128	149
Withlacoochee River Electric	980	1,074	1,019	902	1,191

\* Okefenoke sells power in Florida and Georgia; figures reflect Florida customers only.

\*\* Wholesale-only generating utility.

Source: Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry; Responses to staff data request.

Table 17

**Projected Summer and Winter Peak Demand  
(Megawatts)  
2019-2028**

Year	Summer Peak	Year	Winter Peak
2019	51,101	2019-2020	47,451
2020	51,587	2020-2021	48,065
2021	52,201	2021-2022	48,558
2022	52,720	2022-2023	49,046
2023	53,248	2023-2024	49,597
2024	53,890	2024-2025	50,035
2025	54,463	2025-2026	50,623
2026	55,089	2026-2027	51,777
2027	55,730	2027-2028	51,662
2028	55,913	2028-2029	50,938

Source: Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2019), FRCC Form History and Forecast, p. S-1.

Table 18

**Load Factors of Generating Utilities**  
December 31, 2018

Utility	Net Energy for Load (Gigawatt-Hours)	Peak Load (Megawatts)	Load Factor (Percentage) *
<b>Investor-Owned</b>			
Duke Energy Florida, LLC	44,266	10,323	49.0%
Florida Power & Light Company	122,447	23,217	60.2
Gulf Power Company	12,051	2,809	49.0
Tampa Electric Company	20,663	4,044	58.3
<b>Municipal</b>			
Florida Municipal Power Agency **	6,139	1,281	54.7
Gainesville Regional Utilities	2,079	410	57.9
Homestead	576	106	62.1
JEA	12,813	3,080	47.5
Keys Energy Services	757	146	59.2
Kissimmee Utility Authority	1,653	356	53.0
Lake Worth Utilities	475	95	57.4
Lakeland Electric	3,180	704	51.6
New Smyrna Beach	447	108	47.2
Orlando Utilities Commission ***	8,303	1,341	70.7
Reedy Creek Improvement District	1,233	188	74.8
Tallahassee	3	621	0.1
<b>Rural Electric Cooperative</b>			
PowerSouth Energy **	2,073	578	40.9
Seminole Electric **	14,912	4,024	42.3

\* May not total due to rounding.

\*\* Wholesale-only generating utility.

\*\*\* The City of St. Cloud is included in the figures of Orlando Utilities Commission.

Source: Responses to staff data request.

# **Renewable Energy, Energy Efficiency and Conservation**





Table 19  
**Renewable Generation Capacity**  
**(Megawatts)**  
**2015-2018**

Renewable Type *	2015	2016	2017	2018
Biomass	581	582	583	592
Hydro	64	63	63	51
Landfill Gas	47	87	83	75
Municipal Solid Waste	400	545	446	484
Solar	228	263	538	804
Waste Heat	308	310	306	306
Wind	10	10	188	272
<b>Total</b>	<b>1,638</b>	<b>1,860</b>	<b>2,207</b>	<b>2,584</b>

\* Renewable generation includes investor-owned, customer-owned, and non utility-owned (acquired through purchase power agreements).

Table 20  
**Customer-Owned Photovoltaic Facilities \***  
**2015-2018**

	2015	2016	2017	2018
<b>Number of Solar Energy Systems</b>				
Duke Energy Florida, LLC	2,967	4,445	7,470	12,549
Florida Power & Light Company	4,250	5,411	7,518	11,366
Florida Public Utilities Company	69	87	109	131
Gulf Power Company	465	503	884	1,167
Tampa Electric Company	810	1,097	1,843	3,089
Municipal	1,616	2,375	3,410	5,065
Rural Electric Cooperative	1,423	2,047	2,895	4,464
<b>Total</b>	<b>11,600</b>	<b>15,965</b>	<b>24,129</b>	<b>37,831</b>
<b>Gross Power Rating (MW)(AC)</b>				
Duke Energy Florida, LLC	28	37	58	97
Florida Power & Light Company	40	49	68	99
Florida Public Utilities Company	0.3	0.5	0.6	0.8
Gulf Power Company	2	3	5	8
Tampa Electric Company	10	12	19	32
Municipal	13	19	28	43
Rural Electric Cooperative	9	13	18	30
<b>Total **</b>	<b>102.3</b>	<b>133.5</b>	<b>196.6</b>	<b>310.4</b>
<b>Energy Delivered to the Grid (MWh)</b>				
Duke Energy Florida, LLC	12,153	20,611	29,171	50,957
Florida Power & Light Company	19,922	24,347	30,651	46,992
Florida Public Utilities Company	187	290	345	496
Gulf Power Company	3,849	5,507	8,431	12,719
Tampa Electric Company	4,307	5,983	8,239	23,552
Municipal	5,493	8,436	14,553	22,088
Rural Electric Cooperative	3,678	5,142	6,879	9,985
<b>Total</b>	<b>49,588</b>	<b>70,316</b>	<b>98,269</b>	<b>166,789</b>

\* Includes demonstration sites.

\*\* May not total due to rounding.

Source: Annual Net Metering Report, 2018; Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry.

Table 21  
**Investor-Owned Photovoltaic Facilities \***  
**December 31, 2018**

Utility	Name of Plant	In-Service Date	Nameplate Capacity MW **	Total Energy MWh
Duke Energy Florida, LLC				
	Hamilton	Dec-18	74.9	0.0
	Osceola Solar	May-16	3.8	6,330
	Perry Solar	Aug-16	5.1	4,647
	Suwannee Solar	Nov-17	8.8	14,767
Florida Power & Light Company				
	Babcock Ranch Solar Energy Center	Dec-16	74.5	164,967
	Barefoot Bay	March-18	74.5	166,666
	Blue Cypress	March-18	74.5	154,039
	Citrus Solar Energy Center	Dec-16	74.5	165,360
	Coral Farms	Dec-17	74.5	153,603
	DeSoto Next Generation Solar Energy Center	Oct-09	25.0	46,881
	Hammock	March-18	74.5	158,083
	Horizon	Dec-17	74.5	155,194
	Indian River	Dec-17	74.5	162,704
	Loggerhead	March-18	74.5	156,473
	Manatee Solar Energy Center	Dec-16	74.5	166,230
	Martin Next Generation	Dec-10	75.0	50,125*
	Space Coast Next Generation Solar Energy Center	Apr-10	10.0	17,546
Wildflower	Dec-17	74.5	166,414	
Gulf Power Company				
	Eglin Solar Project	Oct-14	30	56,572
	Holley Solar Project	Oct-14	40	77,212
	Saufley Solar Project	Nov-14	50	93,229
Tampa Electric Company				
	Balm	Sept-18	74.4	25,794
	Big Bend	Feb-17	19.4	40,549
	Payne Creek	Sept-18	70.3	37,305
<b>Total</b>			<b>1,306.20</b>	<b>2,190,565</b>

\* Includes purchase power agreements and demonstration sites.

\*\* 2 megawatt threshold.

Source: Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2019), Summary of Existing Capacity, p. 21; Responses to staff data request.

Table 22

**Demand-Side Management Programs  
Amount of Load Reduction at the Generator \*  
2015-2018**

	2015	2016	2017	2018
<b>Summer Peak Reduction (MW)</b>				
Duke Energy Florida, LLC	60	176	82	86
Florida Power & Light Company	86	52	62	82
Florida Public Utilities Company	0.8	1.0	0.4	0.4
Gulf Power Company	20	5	5	3
JEA	3	7	4	5
Orlando Utilities Commission **	3	3	6	5
Tampa Electric Company	23	10	15	21
<b>Total ***</b>	<b>195.8</b>	<b>254.0</b>	<b>174.4</b>	<b>201.6</b>
<b>Winter Peak Reduction (MW)</b>				
Duke Energy Florida, LLC	69	193	81	88
Florida Power & Light Company	45	33	40	53
Florida Public Utilities Company	0.4	0.5	0.2	0.2
Gulf Power Company	17	5	4	2
JEA	3	5	2	4
Orlando Utilities Commission **	1	2	5	5
Tampa Electric Company	20	11	16	21
<b>Total ***</b>	<b>155.4</b>	<b>249.5</b>	<b>148.2</b>	<b>173.0</b>
<b>Energy Reduction (GWh)</b>				
Duke Energy Florida, LLC	76	151	82	82
Florida Power & Light Company	156	63	71	86
Florida Public Utilities Company	1.5	2.0	0.8	0.9
Gulf Power Company	48	7	7	5
JEA	7	16	11	38
Orlando Utilities Commission **	14	13	32	35
Tampa Electric Company	34	31	45	51
<b>Total ***</b>	<b>336.5</b>	<b>283.0</b>	<b>248.8</b>	<b>298.0</b>

\* Annual achievements are reported. Includes residential, commercial, industrial, and other customers.

\*\* The City of St. Cloud is included in the figures of Orlando Utilities Commission.

\*\*\* May not total due to rounding.

Source: Annual Reports on Demand-Side Management Plans, 2018; Florida Public Service Commission, 2017 Statistics of the Florida Electric Utility Industry.

# **Fuel Analysis**



Table 23  
**Fuel Requirements**  
**2009-2018**

Year	Coal (Thousands of Short Tons)	Oil * (Thousands of Barrels)	Natural Gas (Billions of Cubic Feet)	Nuclear (U-235) ** (Trillion BTUs)
2009	26,238	10,285	845	315
2010	27,497	9,971	923	262
2011	25,420	2,395	1,006	253
2012	22,187	868	1,109	198
2013	23,547	911	999	301
2014	25,122	880	837	307
2015	23,217	1,111	1,149	309
2016	20,260	1,442	1,141	321
2017	21,374	4,343	1,190	318
2018	18,195	974	1,262	318

\* Residual and distillate.

\*\* Uranium-235 is a naturally occurring isotope of Uranium metal.

Table 24  
**Projected Fuel Requirements  
 2019-2028**

Year	Coal (Thousands of Short Tons)	Oil * (Thousands of Barrels)	Natural Gas (Billions of Cubic Feet)	Nuclear (U-235) ** (Trillion BTUs)
2019	16,799	303	1,136	335
2020	16,513	158	1,132	336
2021	16,625	158	1,125	335
2022	15,815	160	1,114	335
2023	13,052	149	1,146	335
2024	13,984	242	1,152	335
2025	13,876	291	1,167	335
2026	13,827	359	1,176	335
2027	14,346	399	1,191	335
2028	12,347	229	1,164	328

\* Residual and distillate.

Source: Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2019), FRCC Form 9.0, p. S-16.



**Sales**



Table 25  
**Retail Sales**  
**(Megawatt-Hours)**  
**2014-2018**

Utility	2014	2015	2016	2017	2018
<b>Investor-Owned</b>					
Duke Energy Florida, LLC	37,240,099	38,553,183	38,773,961	38,024,013	39,144,651
Florida Power & Light Company	104,389,052	109,820,398	109,662,646	108,870,963	110,053,141
Florida Public Utilities Company	648,235	638,345	645,696	627,135	634,763
Gulf Power Company	11,390,697	11,085,872	11,081,505	10,808,617	11,132,383
Tampa Electric Company	18,525,739	19,006,474	19,234,525	19,186,517	19,631,465
<b>Municipal</b>					
Alachua	116,659	121,530	130,432	127,049	131,006
Bartow	261,505	273,041	277,393	269,667	281,732
Beaches Energy Services	702,194	713,708	722,486	690,398	707
Blountstown	36,307	35,439	35,345	34,112	33,586
Bushnell	23,801	23,252	23,892	23,618	24,494
Chattahoochee	36,574	37,890	37,277	36,711	37,053
Clewiston	95,925	100,978	101,094	99,699	99,419
Fort Meade	39,295	40,512	40,878	39,380	40,825
Fort Pierce Utilities Authority	518,446	550,871	551,618	555,768	558,260
Gainesville Regional Utilities	1,708,818	1,765,193	1,796,293	1,773,622	1,829,165
Green Cove Springs	96,513	111,677	106,946	103,807	108,398
Havana	24,107	24,079	23,483	22,820	23,919
Homestead	493,636	535,095	526,881	546,703	548,197
JEA	12,224,128	11,090,657	12,215,148	12,067,476	12,325,781
Keys Energy Services	715,008	751,178	742,272	714,631	712,910
Kissimmee Utility Authority	1,383,233	1,472,391	1,521,688	1,532,011	1,583,340
Lake Worth Utilities	373,598	430,307	434,758	439,747	433,186
Lakeland Electric	2,904,061	3,034,075	3,029,959	3,017,655	3,118,406
Leesburg	441,239	470,555	473,329	474,093	492,124
Moore Haven	12,933	16,178	15,135	15,356	15,356
Mount Dora	87,009	89,184	89,184	87,050	89,695
New Smyrna Beach	386,381	396,602	414,356	406,222	420,938
Newberry	32,774	33,986	34,480	35,348	36,712
Ocala Electric Utility	1,221,227	1,256,904	1,296,691	1,249,383	1,296,827
Orlando Utilities Commission *	6,210,381	6,535,984	6,598,932	6,568,198	6,798,822
Quincy	125,747	123,847	120,177	115,981	119,778
Reedy Creek Improvement District	1,127,952	1,149,020	1,154,677	1,156,067	1,136,189
Starke	66,269	67,841	68,775	66,627	68,416
Tallahassee	2,637,695	2,654,983	2,639,582	2,617,331	2,674,812
Vero Beach	704,939	738,209	736,094	723,911	746,147
Wauchula	59,712	63,349	59,293	58,990	61,589
Williston	30,316	31,935	33,229	32,548	33,237
Winter Park	420,523	433,409	437,232	425,029	412,650
<b>Rural Electric Cooperative</b>					
Central Florida Electric	464,089	471,129	491,417	482,551	500,976
Choctawhatchee Electric	805,232	818,143	835,460	830,572	895,036
Clay Electric	3,127,781	3,152,976	3,279,354	3,226,167	3,316,392
Escambia River Electric	177,604	175,021	174,820	173,238	184,930
Florida Keys Electric	679,462	720,650	709,568	694,334	682,999
Glades Electric	307,948	315,608	315,891	316,748	322,918
Gulf Coast Electric	336,426	339,769	341,231	328,655	334,455
Lee County Electric	3,570,274	3,790,662	3,800,338	3,809,847	3,965,037
Okefenoke Rural Electric **	157,544	157,160	161,794	158,872	167,127
Peace River Electric	624,492	679,718	708,465	736,663	788,506
Sumter Electric	2,982,645	3,149,363	3,238,522	3,232,485	3,415,867
Suwannee Valley Electric	479,238	505,520	533,673	519,391	551,501
Talquin Electric	965,142	955,069	953,400	937,675	2,045,962
Tri-County Electric	298,986	300,179	310,193	309,798	314,885
West Florida Electric	504,163	498,390	495,708	482,902	495,256
Withlacoochee River Electric	3,685,143	3,811,169	3,914,371	3,835,764	4,024,257
<b>Respondent Total ^ ^^</b>	<b>226,678,897</b>	<b>234,118,658</b>	<b>236,151,543</b>	<b>233,719,918</b>	<b>238,896,185</b>
<b>FRCC State Total</b>					<b>230,056,000</b>

\* The City of St. Cloud is included in the figures of Orlando Utilities Commission.

\*\* Okefenokee sells power in Florida and Georgia; figures reflect Florida customers only.

^ May not total due to rounding.

^^ Respondent total includes sales to other public authorities; therefore, respondent totals are not comparable to FRCC totals.

Table 26  
**Retail Sales by Class of Service**  
**(Megawatt-Hours)**  
**2018**

Utility	Residential	Commercial	Industrial	Other *	Total
<b>Investor-Owned</b>					
Duke Energy Florida, LLC	20,635,602	12,171,569	3,107,114	3,230,367	39,144,651
Florida Power & Light Company	59,096,276	47,394,058	3,013,172	549,635	110,053,141
Florida Public Utilities Company	307,879	303,688	15,400	7,796	634,763
Gulf Power Company	5,519,378	3,828,676	1,756,557	27,772	11,132,383
Tampa Electric Company	9,418,149	6,265,971	2,014,009	1,933,336	19,631,465
<b>Municipal</b>					
Alachua	45,011	85,995	0	0	131,006
Bartow	142,909	44,976	83,451	10,396	281,732
Beaches Energy Services	446	262	0	0	707
Blountstown	11,002	20,330	0	2,254	33,586
Bushnell	8,932	7,958	7,604	0	24,494
Chattahoochee	11,192	3,330	21,186	1,344	37,053
Clewiston	50,940	47,093	987	399	99,419
Fort Meade	28,477	12,348	0	0	40,825
Fort Pierce Utilities Authority	240,454	313,866	0	3,940	558,260
Gainesville Regional Utilities	833,940	820,375	174,850	0	1,829,165
Green Cove Springs	51,936	56,462	0	0	108,398
Havana	13,855	10,064	0	0	23,919
Homestead	319,942	38,952	160,874	28,430	548,197
JEA	5,460,246	4,042,025	2,764,645	58,865	12,325,781
Keys Energy Services	353,116	356,489	0	3,304	712,910
Kissimmee Utility Authority	879,291	525,636	159,852	18,562	1,583,340
Lake Worth Utilities	253,196	98,909	0	81,080	433,186
Lakeland Electric	1,524,441	813,132	675,961	104,872	3,118,406
Leesburg	248,973	51,235	0	191,916	492,124
Moore Haven	9,051	5,934	0	372	15,356
Mount Dora	52,307	31,686	0	5,702	89,695
New Smyrna Beach	281,667	54,680	84,591	0	420,938
Newberry	19,987	3,144	7,103	6,478	36,712
Ocala Electric Utility	532,411	161,762	566,104	36,551	1,296,827
Orlando Utilities Commission *	2,587,797	476,654	3,527,203	207,168	6,798,822
Quincy	47,284	52,628	18,365	1,501	119,778
Reedy Creek Improvement District	132	1,126,641	0	9,416	1,136,189
Starke	24,302	44,115	0	0	68,416
Tallahassee	1,122,468	1,521,598	0	30,746	2,674,812
Vero Beach	384,399	342,404	15,079	4,265	746,147
Wauchula	28,340	31,691	0	1,558	61,589
Williston	13,460	14,186	309	5,283	33,237
Winter Park	182,829	229,821	0	0	412,650
<b>Rural Electric Cooperative</b>					
Central Florida Electric	367,098	67,832	11,975	54,070	500,976
Choctawhatchee Electric	668,113	209,764	17,159	0	895,036
Clay Electric	2,270,492	649,074	396,790	36	3,316,392
Escambia River Electric	146,460	32,494	5,275	702	184,930
Florida Keys Electric	401,941	95,124	146,979	38,955	682,999
Glades Electric	158,887	38,871	125,160	0	322,918
Gulf Coast Electric	263,200	29,460	29,147	12,648	334,455
Lee County Electric	2,750,609	1,189,192	0	25,236	3,965,037
Okefenoke Rural Electric **	153,062	7,974	3,313	2,778	167,127
Peace River Electric	507,173	223,411	43,539	14,383	788,506
Sumter Electric	2,344,414	774,261	295,912	1,280	3,415,867
Suwannee Valley Electric	304,202	247,299	0	0	551,501
Talquin Electric	688,411	176,553	1,174,535	6,463	2,045,962
Tri-County Electric	175,921	53,330	76,362	9,271	314,885
West Florida Electric	317,096	35,570	109,998	32,592	495,256
Withlacoochee River Electric	2,829,803	1,000,400	171,729	22,326	4,024,257
<b>Respondent Total ^^ ^^^</b>	<b>125,088,896</b>	<b>86,240,952</b>	<b>20,782,286</b>	<b>6,784,050</b>	<b>238,896,185</b>
<b>FRCC State Total</b>	<b>119,980,000</b>	<b>86,000,000</b>	<b>17,394,000</b>	<b>6,682,000</b>	<b>230,056,000</b>

\* Street and highway lighting, sales to public authorities, and interdepartmental sales.

\*\* The City of St. Cloud is included in the figures of Orlando Utilities Commission.

^ Okefenoke sells power in Florida and Georgia; figures reflect Florida customers only.

^^ May not total due to rounding.

^^^ Respondent total includes sales to other public authorities; therefore, respondent totals are not comparable to FRCC totals.

Table 27  
**Sales for Resale for Selected Utilities**  
**(Megawatt-Hours)**  
**2018**

Utility	Sales for Resale	Total Retail Sales *	Total Sales	Resales as Percentage of Total
<b>Investor-Owned</b>				
Duke Energy Florida, LLC	2,383,631	39,144,651	41,528,282	5.74%
Florida Power & Light Company	9,857,076	110,053,141	119,910,217	8.22
Gulf Power Company	4,360,461	11,132,383	15,492,844	28.15
Tampa Electric Company	286,172	19,631,465	19,917,637	1.44
<b>Municipal</b>				
Gainesville Regional Utilities	221,687	1,829,165	2,050,852	10.81%
JEA	82,372	12,325,781	12,408,153	0.66
Orlando Utilities Commission **	1,360,698	6,798,822	8,159,519	16.68
Reedy Creek Improvement District	4,620	1,136,189	1,140,809	0.40
Tallahassee	155,530	2,674,812	2,830,343	5.50
<b>Rural Electric Cooperative</b>				
PowerSouth Energy ***	1,997,292	0	1,997,292	100%
Seminole Electric ***	14,810,089	0	14,810,089	100
Talquin Electric	8,187	2,045,962	2,054,149	0.40

\* Includes residential, commercial, industrial, and other customers.

\*\* The City of St. Cloud is included in the figures of Orlando Utilities Commission.

\*\*\* Wholesale-only generating utility.

Table 28  
**Retail Sales by Class of Service**  
**(Gigawatt-Hours)**  
**2014-2018**

Year	Residential	Commercial	Industrial	Other *	Total Retail Sales
2014	111,826	83,326	17,223	6,271	218,646
2015	117,615	86,027	17,342	6,442	227,426
2016	118,453	86,158	17,248	6,548	228,407
2017	116,739	85,681	17,084	6,467	225,971
2018	119,980	86,000	17,394	6,682	230,056

\* Street and highway lighting, sales to public authorities, and interdepartmental sales.

Table 29  
**Retail Sales by Percentage of Class of Service \***  
**2009-2018**

Year	Residential	Commercial	Industrial	Other **
2009	51.78%	34.99%	9.79%	3.44%
2010	53.25	33.96	9.42	3.36
2011	51.94	35.38	9.26	3.42
2012	51.06	36.43	9.06	3.45
2013	51.32	36.24	9.04	3.41
2014	51.41	33.63	11.43	3.53
2015	52.34	37.81	7.10	2.75
2016	52.28	36.06	8.83	2.84
2017	52.07	36.20	8.84	2.89
2018	52.36	36.10	8.70	2.84

\* May not total due to rounding.

\*\* Street and highway lighting, sales to public authorities, and interdepartmental sales.





## **Revenues**



Table 30  
**Revenues by Class of Service \***  
**(Thousands)**  
**2009-2018**

Year	Residential	Commercial	Industrial	Other **	Total ***
2009	\$13,879,777	\$8,186,033	\$2,322,558	\$828,870	\$25,217,238
2010	13,130,852	7,165,633	1,869,629	774,006	22,940,120
2011	12,705,770	7,303,597	2,017,392	795,924	22,822,684
2012	11,852,134	6,990,684	1,597,629	739,474	21,179,921
2013	12,409,792	6,905,538	2,015,606	729,113	22,060,049
2014	13,808,364	7,325,378	2,321,203	826,222	24,281,166
2015	14,235,700	8,419,986	1,347,946	678,308	24,681,941
2016	13,550,470	7,495,717	1,622,082	680,756	23,349,026
2017	14,066,932	7,831,125	1,638,485	684,875	24,221,417
2018	14,503,170	7,925,426	1,535,191	712,436	24,676,222

\* The amounts shown reflect revenues for all Florida electric utilities (investor-owned, municipal, and rural electric cooperative).

\*\* Street and highway lighting, sales to public authorities, and interdepartmental sales.

\*\*\* May not total due to rounding..

Table 31  
**Revenues by Percentage of Class of Service \***  
**2009-2018**

Year	Residential	Commercial	Industrial	Other **
2009	55.0%	32.5%	9.2%	3.3%
2010	57.2	31.2	8.2	3.4
2011	55.7	32.0	8.8	3.5
2012	56.0	33.0	7.5	3.5
2013	56.3	31.3	9.1	3.3
2014	56.9	30.2	9.6	3.4
2015	57.7	34.1	5.5	2.7
2016	58.0	32.1	6.9	2.9
2017	58.1	32.3	6.8	2.8
2018	58.8	32.1	6.2	2.9

\* May not total due to rounding.

\*\* Street and highway lighting, sales to public authorities, and interdepartmental sales.

Source: Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry; Responses to staff data request; Table 30.

## **Number of Customers**



Table 32  
**Number of Customers**  
**2014-2018**

Utility	2014	2015	2016	2017	2018	Compound Growth Rate
<b>Investor-Owned</b>						
Duke Energy Florida, LLC	1,699,077	1,798,990	1,760,016	1,885,567	1,901,131	2.85%
Florida Power & Light Company	4,708,819	4,806,234	4,869,040	4,901,871	4,961,313	1.31
Florida Public Utilities Company	31,272	31,506	31,787	31,992	31,009	-0.21
Gulf Power Company	442,370	449,471	455,415	461,806	462,983	1.15
Tampa Electric Company	706,160	718,712	730,503	744,691	756,254	1.73
<b>Total Investor-Owned</b>	<b>7,587,698</b>	<b>7,804,913</b>	<b>7,846,761</b>	<b>8,025,927</b>	<b>8,112,690</b>	<b>1.69</b>
<b>Municipal</b>						
Alachua	4,423	4,482	4,522	4,506	4,584	0.90%
Bartow	11,876	12,036	12,195	12,310	12,397	1.08
Beaches Energy Services	34,282	34,903	34,601	34,609	34,315	0.02
Blountstown	1,349	1,312	1,324	1,330	1,327	-0.41
Bushnell	1,021	1,031	1,040	1,057	1,055	0.82
Chattahoochee	1,156	1,157	1,161	1,172	1,156	0.00
Clewiston	4,237	4,289	4,315	4,357	4,343	0.62
Fort Meade	2,652	2,803	2,660	2,628	2,635	-0.16
Fort Pierce Utilities Authority	28,166	28,251	28,306	28,257	28,331	0.15
Gainesville Regional Utilities	93,855	94,628	95,161	97,245	97,681	1.00
Green Cove Springs	3,865	3,921	4,058	4,175	4,196	2.08
Havana	1,391	1,427	1,448	1,458	1,457	1.17
Homestead	23,032	23,211	24,031	24,402	30,718	7.46
JEA	426,373	449,263	456,894	464,118	472,061	2.58
Keys Energy Services	30,752	31,167	30,002	29,859	29,728	-0.84
Kissimmee Utility Authority	66,608	68,396	70,400	72,225	74,752	2.93
Lake Worth Utilities	25,783	26,558	26,236	27,105	27,244	1.39
Lakeland Electric	124,018	125,666	127,152	129,113	130,657	1.31
Leesburg	23,483	23,793	24,597	24,400	24,420	0.98
Moore Haven	1,017	863	1,059	1,137	1,137	2.83
Mount Dora	5,712	5,798	5,828	5,851	5,853	0.61
New Smyrna Beach	26,375	26,740	27,561	27,737	28,030	1.53
Newberry	1,687	1,723	1,774	1,820	1,893	2.92
Ocala Electric Utility	49,168	51,896	50,187	50,569	53,485	2.13
Orlando Utilities Commission *	278,790	290,915	300,179	312,973	322,258	3.69
Quincy	4,796	4,767	4,783	4,743	4,786	-0.05
Reedy Creek Improvement District	1,374	1,387	1,463	1,447	1,524	2.62
Starke	2,731	2,759	2,779	2,801	2,794	0.57
Tallahassee	116,709	117,827	119,005	120,050	121,677	1.05
Vero Beach	34,616	34,538	34,893	35,565	35,923	0.93
Wauchula	2,680	2,775	2,798	2,802	2,806	1.16
Williston	1,473	1,552	1,707	1,718	1,744	4.31
Winter Park	14,150	14,392	14,947	15,061	15,565	2.41
<b>Total Municipal</b>	<b>1,449,600</b>	<b>1,496,226</b>	<b>1,519,066</b>	<b>1,548,600</b>	<b>1,582,532</b>	<b>2.22</b>
<b>Rural Electric Cooperative</b>						
Central Florida Electric	32,734	32,943	33,176	33,434	33,750	0.77%
Choctawhatchee Electric	46,656	47,291	48,675	50,181	51,790	2.64
Clay Electric	239,735	170,429	172,861	174,587	176,614	-7.35
Escambia River Electric	10,254	10,467	10,700	11,012	11,197	2.22
Florida Keys Electric	32,292	32,415	32,723	32,224	32,678	0.30
Glades Electric	16,180	16,373	16,368	16,370	16,344	0.25
Gulf Coast Electric	20,013	20,274	20,565	20,780	20,648	0.78
Lee County Electric	204,023	208,626	211,685	214,668	217,363	1.60
Okefenoke Rural Electric **	10,037	10,999	10,189	10,528	10,586	1.34
Peace River Electric	36,387	38,674	40,296	41,729	43,578	4.61
Sumter Electric	187,106	193,110	194,964	198,656	205,644	2.39
Suwannee Valley Electric	25,426	25,415	25,648	25,932	26,395	0.94
Talquin Electric	52,894	53,213	53,593	53,832	54,218	0.62
Tri-County Electric	17,716	17,830	17,932	18,212	18,391	0.94
West Florida Electric	28,036	28,202	28,347	28,487	28,632	0.53
Withlacoochee River Electric	204,362	208,761	211,243	214,244	217,998	1.63
<b>Total Rural Electric Cooperative</b>	<b>1,163,851</b>	<b>1,115,022</b>	<b>1,128,965</b>	<b>1,144,876</b>	<b>1,165,826</b>	<b>0.04</b>
<b>Respondent Total ^ ^^</b>	<b>10,201,149</b>	<b>10,416,161</b>	<b>10,494,792</b>	<b>10,719,403</b>	<b>10,861,048</b>	<b>1.58</b>
<b>FRCC State Total</b>	<b>9,607,315</b>	<b>9,764,790</b>	<b>9,901,223</b>	<b>10,044,518</b>	<b>10,134,775</b>	<b>1.35</b>

\* The City of St. Cloud is included in the figures of Orlando Utilities Commission.

\*\* Okefenokee sells power in Florida and Georgia; figures reflect Florida customers only.

^ May not total due to rounding.

^^ Respondent total includes sales to other public authorities; therefore, respondent totals are not comparable to FRCC totals.

Source: Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry; Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2019), FRCC Form 4.0, p. S-2; Responses to staff data request.

Table 33  
**Number of Customers by Class of Service**  
**December 31, 2018**

Utility	Residential	Commercial	Industrial	Other *	Total
<b>Investor-Owned</b>					
Duke Energy Florida, LLC	1,691,570	180,351	2,074	27,136	1,901,131
Florida Power & Light Company	4,391,832	553,562	11,601	4,318	4,961,313
Florida Public Utilities Company	23,921	4,216	2	2,870	31,009
Gulf Power Company	405,462	56,678	251	592	462,983
Tampa Electric Company	670,517	74,895	1,588	9,254	756,254
<b>Total Investor-Owned</b>	<b>7,183,302</b>	<b>869,702</b>	<b>15,516</b>	<b>44,170</b>	<b>8,112,690</b>
<b>Municipal</b>					
Alachua	3,862	722	0	0	4,584
Bartow	10,614	1,332	329	122	12,397
Beaches Energy Services	29,964	4,351	0	0	34,315
Blountstown	986	298	0	43	1,327
Bushnell	774	270	11	0	1,055
Chattahoochee	975	116	1	64	1,156
Clewiston	3,432	612	1	298	4,343
Fort Meade	2,338	297	0	0	2,635
Fort Pierce Utilities Authority	23,239	5,090	0	2	28,331
Gainesville Regional Utilities	86,508	11,161	12	0	97,681
Green Cove Springs	3,431	765	0	0	4,196
Havana	1,144	313	0	0	1,457
Homestead	22,550	2,052	575	5,541	30,718
JEA	415,303	52,740	196	3,822	472,061
Keys Energy Services	25,289	4,364	0	75	29,728
Kissimmee Utility Authority	64,739	9,962	51	0	74,752
Lake Worth Utilities	23,399	2,948	0	897	27,244
Lakeland Electric	109,043	12,543	74	8,997	130,657
Leesburg	21,294	2,865	0	261	24,420
Moore Haven	975	127	0	35	1,137
Mount Dora	4,947	814	0	92	5,853
New Smyrna Beach	24,619	3,275	136	0	28,030
Newberry	1,578	177	41	97	1,893
Ocala Electric Utility	42,104	7,552	1,066	2,763	53,485
Orlando Utilities Commission **	210,902	25,021	5,715	80,620	322,258
Quincy	3,970	765	1	50	4,786
Reedy Creek Improvement District	9	1,433	0	82	1,524
Starke	2,037	757	0	0	2,794
Tallahassee	102,395	15,100	0	4,182	121,677
Vero Beach	29,558	5,849	2	514	35,923
Wauchula	2,231	506	0	69	2,806
Williston	1,194	394	3	153	1,744
Winter Park	12,848	2,717	0	0	15,565
<b>Total Municipal</b>	<b>1,288,251</b>	<b>177,288</b>	<b>8,214</b>	<b>108,779</b>	<b>1,582,532</b>
<b>Rural Electric Cooperative</b>					
Central Florida Electric	30,208	2,416	635	491	33,750
Choctawhatchee Electric	45,411	6,377	2	0	51,790
Clay Electric	156,694	19,869	30	21	176,614
Escambia River Electric	9,924	1,244	6	23	11,197
Florida Keys Electric	26,907	4,746	387	638	32,678
Glades Electric	12,514	3,398	432	0	16,344
Gulf Coast Electric	19,195	927	12	514	20,648
Lee County Electric	198,450	18,913	0	0	217,363
Okefenoke Rural Electric ^	10,027	481	1	77	10,586
Peace River Electric	36,264	7,246	3	65	43,578
Sumter Electric	186,783	18,813	20	28	205,644
Suwannee Valley Electric	23,105	3,290	0	0	26,395
Talquin Electric	50,254	3,312	4	648	54,218
Tri-County Electric	16,560	1,562	13	256	18,391
West Florida Electric	25,276	2,727	1	628	28,632
Withlacoochee River Electric	196,122	21,410	24	442	217,998
<b>Total Rural Electric Cooperative</b>	<b>1,043,694</b>	<b>116,731</b>	<b>1,570</b>	<b>3,831</b>	<b>1,165,826</b>
<b>Respondent Total ^^ ^^^</b>	<b>9,515,247</b>	<b>1,163,721</b>	<b>25,300</b>	<b>156,780</b>	<b>10,861,048</b>
<b>FRCC State Total</b>	<b>9,009,348</b>	<b>1,102,695</b>	<b>22,732</b>	<b>N/A</b>	<b>10,134,775</b>

\* Street and highway lighting, sales to public authorities, and interdepartmental sales.

\*\* The City of St. Cloud is included in the figures of Orlando Utilities Commission.

^ Okefenoke sells power in Florida and Georgia; figures reflect Florida customers only.

^^ May not total due to rounding.

^^^ Respondent total includes sales to other public authorities; therefore, respondent totals are not comparable to FRCC totals.

Source: Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2019), FRCC Form 4.0, p. S-2; Responses to staff data request.



Table 34

**Investor-Owned Utilities: Customer Count and Population  
2018-2028 Projected**

Utility	Year	Residential	Commercial	Industrial	Other	Total Customers	Population
Duke Energy Florida, LLC	2018	1,691,570	180,351	2,074	27,136	1,901,131	3,954,499
	2021	1,673,995	183,346	2,013	27,037	1,886,391	4,129,577
	2027	1,826,913	196,028	1,955	27,947	2,052,843	4,441,443
Florida Power & Light Company	2018	4,391,832	553,562	11,601	4,318	4,961,313	10,044,057
	2021	4,574,840	575,064	13,886	4,989	5,168,779	10,424,402
	2027	4,889,066	601,952	14,999	6,133	5,512,150	11,175,428
Gulf Power Company	2018	405,462	56,678	251	592	462,983	972,720
	2021	426,034	59,040	255	611	485,940	999,380
	2027	447,994	61,736	255	619	510,604	1,041,390
Tampa Electric Company	2018	670,517	74,895	1,588	9,254	756,254	1,408,864
	2021	707,997	75,861	1,614	9,387	794,859	1,497,480
	2027	779,733	77,612	1,661	9,996	869,002	1,651,067

Source: Florida Public Service Commission, Utilities' Ten-Year Site Plan (April 2019), Schedule Nos. 2.1, 2.2, and 2.3; Table 33.



## **Prices**



Table 35, Page 1 of 3

**Typical Electric Bill Comparison - Residential Charges \***  
**December 31, 2018**

Investor-Owned	Minimum Bill or Customer Charge	100 kWh	250 kWh	500 kWh	750 kWh	1,000 kWh	1,500 kWh
Duke Energy Florida, LLC	\$8.82	\$20.41	\$37.79	\$66.78	\$95.74	\$124.70	\$195.28
Florida Power & Light Company	7.98	16.78	30.03	52.07	74.12	96.14	150.31
Florida Public Utilities Company							
Northwest Division	15.12	26.66	43.97	72.82	101.67	130.51	200.71
Northeast Division	15.12	26.66	43.97	72.82	101.67	130.51	200.71
Gulf Power Company	19.20	30.09	46.40	73.62	100.80	128.00	182.42
Tampa Electric Company	16.62	25.48	38.77	60.90	83.04	105.16	159.44

\* Excludes local taxes, franchise fees, and gross receipts taxes that are billed as separate line items. Includes cost recovery clause charges.

Table 35, Page 2 of 3

**Typical Electric Bill Comparison - Residential Charges \*  
December 31, 2018**

Municipal	Minimum Bill or Customer Charge	100 kWh	250 kWh	500 kWh	750 kWh	1,000 kWh	1,500 kWh
Alachua	\$9.14	\$19.56	\$35.18	\$61.22	\$87.25	\$113.29	\$170.47
Bartow	8.70	19.22	35.00	61.29	87.58	113.87	166.46
Beaches Energy Services	4.50	15.44	31.86	59.22	86.58	113.94	168.66
Blountstown	3.50	15.39	33.21	62.93	92.64	122.35	181.78
Bushnell	7.40	17.47	32.56	57.73	82.89	108.05	158.38
Chattahoochee	6.50	16.99	32.73	58.97	85.20	111.43	163.90
Clewiston	6.50	16.24	30.85	55.18	79.53	103.86	152.54
Fort Meade	12.96	23.92	40.36	67.76	95.16	122.56	177.36
Fort Pierce Utilities Authority	6.01	16.33	31.82	57.62	83.43	111.84	168.66
Gainesville Regional Utilities	14.25	24.07	38.79	65.77	92.74	122.87	187.32
Green Cove Springs	12.00	21.90	36.75	61.50	88.25	115.00	170.50
Havana	6.00	16.54	32.35	58.69	85.03	111.37	164.06
Homestead	5.60	16.46	32.76	59.92	87.07	114.23	168.55
JEA	5.50	15.80	31.26	57.00	82.76	108.50	160.00
Keys Energy Services	18.00	29.10	45.75	73.50	101.25	129.00	184.50
Kissimmee Utility Authority	10.17	19.42	33.30	56.42	79.55	102.67	155.25
Lake Worth Utilities	10.53	20.28	34.90	59.26	83.63	107.99	156.72
Lakeland Electric	11.00	20.19	33.97	56.93	79.89	102.85	151.80
Leesburg	12.20	22.77	38.63	65.07	91.50	117.94	181.71
Moore Haven	8.50	18.21	32.78	57.05	81.33	105.60	154.15
Mount Dora	9.94	20.32	35.88	61.81	87.74	113.67	165.54
New Smyrna Beach	5.65	15.57	30.43	55.22	80.00	104.78	154.35
Newberry	8.50	19.23	35.31	62.13	88.94	115.75	169.38
Ocala Electric Utility	13.00	23.62	39.55	66.10	92.65	119.20	172.30
Orlando Utilities Commission *	10.00	19.60	34.00	58.01	82.00	106.00	169.01
Quincy	6.00	17.01	33.53	61.06	88.59	116.11	171.17
Reedy Creek Improvement District	2.85	13.02	28.27	53.69	79.11	104.52	155.36
St. Cloud **	10.40	20.38	35.36	60.33	85.28	110.24	175.77
Starke	6.45	17.41	33.84	61.23	88.62	116.00	181.78
Tallahassee	7.77	17.90	33.10	58.43	83.74	109.07	159.73
Vero Beach	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wauchula	11.50	20.44	33.85	56.20	78.55	100.90	145.60
Williston	8.00	18.29	33.74	59.47	85.21	110.94	162.41
Winter Park	15.44	24.85	38.98	62.52	86.05	109.59	172.75

\* Excludes local taxes, franchise fees, and gross receipts taxes that are billed as separate line items. Includes cost recovery clause charges.

\*\* The City of St. Cloud is included in the figures of Orlando Utilities Commission.

Table 35, Page 3 of 3

**Typical Electric Bill Comparison - Residential Charges \***  
**December 31, 2018**

Rural Electric Cooperative	Minimum Bill or Customer Charge	100 kWh	250 kWh	500 kWh	750 kWh	1,000 kWh	1,500 kWh
Central Florida Electric	\$28.50	\$37.75	\$51.62	\$74.75	\$97.87	\$121.00	\$178.75
Choctawhatchee Electric	26.00	35.77	50.43	74.85	99.27	123.69	172.54
Clay Electric	23.00	31.99	45.48	67.95	90.43	112.90	167.25
Escambia River Electric	30.00	42.10	60.25	90.50	120.75	151.00	211.50
Florida Keys Electric	30.00	38.31	50.76	71.53	92.29	113.05	171.08
Glades Electric	45.00	54.00	67.50	90.00	112.50	135.00	198.75
Gulf Coast Electric	30.00	39.71	54.28	78.55	102.83	127.10	175.65
Lee County Electric	15.00	23.75	36.88	56.15	79.33	102.50	154.20
Okefenoke Rural Electric **	25.00	34.77	49.43	73.85	98.28	122.70	174.90
Peace River Electric	26.50	36.41	51.27	76.03	100.79	125.56	185.09
Sumter Electric	24.90	33.89	47.38	69.85	92.32	114.80	169.75
Suwannee Valley Electric	25.00	34.46	48.65	72.30	95.95	119.60	177.60
Talquin Electric	30.00	39.80	54.50	79.00	103.50	128.00	187.80
Tri-County Electric	28.00	38.30	53.75	79.50	105.25	131.00	192.50
West Florida Electric	24.95	35.37	51.00	77.05	103.09	129.14	191.01
Withlacoochee River Electric	32.37	41.12	54.25	76.14	98.02	119.90	164.80

\* Excludes local taxes, franchise fees, and gross receipts taxes that are billed as separate line items. Includes cost recovery clause charges.

\*\* Okefenoke sells power in Florida and Georgia; figures reflect Florida customers only.

**Typical Electric Bill Comparison - Commercial and Industrial Charges \***  
**December 31, 2018**

Investor-Owned	75 kW 15,000 kWh	150 kW 45,000 kWh	500 kW 150,000 kWh	1,000 kW 400,000 kWh	2,000 kW 800,000 kWh
Duke Energy Florida, LLC	\$1,513	\$4,040	\$13,441	\$33,706	\$67,401
Florida Power & Light Company	1,576	3,870	13,346	31,106	61,260
Florida Public Utilities Company					
Northwest Division	1,816	5,002	16,646	42,248	84,356
Northeast Division	1,816	5,002	16,646	42,248	84,356
Gulf Power Company	1,662	4,353	14,630	34,406	68,550
Tampa Electric Company	1,639	4,029	13,354	31,902	63,771

\* Excludes local taxes, franchise fees, and gross receipts taxes that are billed as separate line items. Includes cost recovery clause charges.



Table 36, Page 2 of 3

**Typical Electric Bill Comparison - Commercial and Industrial Charges \***  
**December 31, 2018**

	Municipal	75 kW 15,000 kWh	150 kW 45,000 kWh	500 kW 150,000 kWh	1,000 kW 400,000 kWh	2,000 kW 800,000 kWh
Alachua		\$1,810	\$4,788	\$15,853	\$39,746	\$79,446
Bartow		1,864	4,864	16,164	40,019	80,017
Beaches Energy Services		2,080	5,570	18,530	46,552	93,088
Blountstown		1,875	5,610	18,682	49,807	99,607
Bushnell		1,835	4,900	16,280	40,893	81,763
Chattahoochee		1,997	5,189	17,240	44,257	88,489
Clewiston		1,697	4,738	15,696	40,586	81,130
Fort Meade		1,871	5,352	17,742	44,102	88,162
Fort Pierce Utilities Authority		1,784	4,766	17,784	42,981	85,923
Gainesville Regional Utilities		2,263	5,877	19,355	47,180	94,010
Green Cove Springs		1,903	4,970	16,450	38,125	76,025
Havana		1,587	4,748	15,812	42,154	84,302
Homestead		1,919	5,209	17,280	43,898	87,760
JEA		1,715	4,345	14,286	35,567	70,799
Keys Energy Services		2,182	5,567	18,335	45,235	90,375
Kissimmee Utility Authority		1,785	4,577	15,128	37,286	74,516
Lake Worth Utilities		2,325	6,076	20,068	50,098	100,116
Lakeland Electric		1,574	4,053	13,501	32,257	64,134
Leesburg		1,973	4,855	16,540	38,853	80,653
Moore Haven		1,771	4,568	15,149	37,324	74,614
Mount Dora		1,409	3,774	12,527	31,552	63,082
New Smyrna Beach		1,855	4,992	15,686	39,606	79,178
Newberry		1,904	4,933	16,408	37,545	75,045
Ocala Electric Utility		1,718	4,540	15,401	38,278	76,532
Orlando Utilities Commission *		1,627	4,129	13,673	32,902	65,654
Quincy		1,689	4,647	15,350	39,500	65,363
Reedy Creek Improvement District		1,570	4,144	13,768	34,349	68,678
St. Cloud **		1,692	4,294	14,221	34,220	68,284
Starke		1,990	5,951	19,817	52,829	105,649
Tallahassee		1,868	4,448	14,567	34,237	68,401
Vero Beach		0	0	0	0	0
Wauchula		1,525	4,036	13,300	33,535	67,005
Williston		1,706	4,693	15,365	38,890	77,730
Winter Park		1,507	4,109	13,657	34,707	69,397

\* Excludes local taxes, franchise fees, and gross receipts taxes that are billed as separate line items. Includes cost recovery clause charges.

\*\* The City of St. Cloud is included in the figures of Orlando Utilities Commission.

Table 36, Page 3 of 3

**Typical Electric Bill Comparison - Commercial and Industrial Charges \***  
**December 31, 2018**

Rural Electric Cooperative	75 kW 15,000 kWh	150 kW 45,000 kWh	500 kW 150,000 kWh	1,000 kW 400,000 kWh	2,000 kW 800,000 kWh
Central Florida Electric	\$1,873	\$4,824	\$15,849	\$38,849	\$77,599
Choctawhatchee Electric	1,553	4,116	12,981	32,906	65,769
Clay Electric	1,567	4,216	13,865	35,390	67,285
Escambia River Electric	2,218	5,915	19,600	49,350	98,650
Florida Keys Electric	1,668	4,854	16,009	42,551	85,028
Glades Electric	2,123	5,468	17,875	44,750	89,350
Gulf Coast Electric	1,981	4,869	16,135	39,743	79,443
Lee County Electric	1,533	4,019	945	2,520	5,040
Okefenoke Rural Electric **	1,742	4,429	14,435	35,960	71,780
Peace River Electric	1,801	4,534	14,313	34,698	69,246
Sumter Electric	1,519	3,997	13,170	33,095	66,125
Suwannee Valley Electric	1,712	4,574	15,250	37,450	74,650
Talquin Electric	1,724	4,788	16,145	37,192	74,084
Tri-County Electric	1,995	5,010	16,350	40,350	80,550
West Florida Electric	1,814	4,967	16,440	43,708	87,316
Withlacoochee River Electric	1,484	3,929	13,008	32,625	65,213

\* Excludes local taxes, franchise fees, and gross receipts taxes that are billed as separate line items. Includes cost recovery clause charges.

\*\* Okefenoke sells power in Florida and Georgia; figures reflect Florida customers only.

Source: Florida Public Service Commission, Comparative Rate Statistics (December 2018), pp. A-4, A-5, and A-6.

## **Economic and Financial Indicators**



Table 37  
**Population**  
**(Thousands)**  
**2009-2018**

Year	Florida Population	National Population
2009	18,538	307,007
2010	18,839	309,330
2011	19,058	311,592
2012	19,074	314,917
2013	19,553	316,129
2014	19,893	318,857
2015	20,271	321,419
2016	20,612	323,128
2017	20,984	325,719
2018	21,299	327,167
Compound Annual Growth Rate, 2009-2018	1.55%	0.71%
Compound Annual Growth Rate, 2014-2018	1.72%	0.65%

Source: U.S. Census Bureau, State & County Quick Facts (July 2019), 2018 Population estimate. Retrieved from <http://quickfacts.census.gov/qfd/states/12000.html>

Table 38  
**Projected Population**  
**(Thousands)**  
**2020-2040**

Year	Florida Population	National Population
2020	21,518	332,639
2030	24,340	355,101
2040	26,374	373,528
Compound Annual Growth Rate, 2020-2040	1.08%	0.61%

Sources: The Office of Economic & Demographic Research (May 2019), Data: 2018 Population by County: Projections of Florida Population by County (EDR - 2020-2040). Retrieved from <http://edr.state.fl.us/Content/population-demographics/data/index.cfm>

U.S. Census Bureau, Population Projections (March 2019), 2018 National Population Projections Tables: Summary Tables, Projections of population size: Table 1. Projected population size and births, deaths, and migration (CSV - 2015 to 2060). Retrieved from <https://www.census.gov/population/projections/data/national/2014/summarytables.html>

Table 39  
**Consumer Price Index  
 All Urban Consumers  
 Annual Rate of Change  
 2009-2018**

Year	All Urban Consumers
2009	-0.4%
2010	1.6
2011	3.2
2012	2.1
2013	1.5
2014	1.6
2015	1
2016	1.3
2017	2.1
2018	2.4

Source: U.S. Government Publishing Office, Economic Indicators (January 2019), Prices: Changes in Consumer Prices - All Urban Consumers. Retrieved from <http://www.gpo.gov/fdsys/browse/collection.action?collectionCode=ECONI>

Table 40  
**Consumer Price Index  
 For All Items and Energy Total  
 2009-2018**

Year	All Items	Energy Total *
2009	214.5	211.0
2010	218.1	214.2
2011	224.9	220.4
2012	229.6	219.0
2013	233.0	224.0
2014	236.7	243.5
2015	237.0	202.9
2016	240.0	189.5
2017	245.1	204.5
2018	251.1	219.9

\* Includes household energy (electricity, gas, fuel, oil, etc.).

Source: U.S. Government Publishing Office, Economic Indicators (January 2019), Prices: Consumer Prices - All Urban Consumers. Retrieved from <http://www.gpo.gov/fdsys/browse/collection.action?collectionCode=ECONI>

Table 41  
**Producer Price Index**  
**Total Finished Goods and Capital Equipment**  
**2009-2018**

Year	Finished Goods	Capital Equipment
2009	172.5	156.7
2010	179.8	157.3
2011	190.5	159.7
2012	194.2	162.8
2013	196.1	165.3
2014	191.9	167.7
2015	189.8	169.3
2016	195.6	170.6
2017	201.3	172.0
2018	201.7	176.7

Source: U.S. Department of Labor, Bureau of Labor and Statistics (January 2019),  
 Producer Price Index. Retrieved from  
[http://www.bls.gov/schedule/archives/ppi\\_nr.htm#current](http://www.bls.gov/schedule/archives/ppi_nr.htm#current)





## Glossary

**Average Annual kWh Use per Customer** – Annual kilowatt-hour sales of a class of service (see **Classes of Electric Service** for list) divided by the average number of customers for the same 12-month period (usually refers to all residential customers, including those with electric space heating). A customer with two or more meters at the same location because of special services, such as water heating, etc., is counted as one customer.

**Average rate of return** - This method of appraisal measures the net return from an investment as a percentage of its original cost.

**Average Adjusted Rate of Return** – This method of appraisal measures the net return from an investment as a percentage of its original cost to include Florida Public Service Commission (FPSC) approved adjustments

**FPSC Authorized Rate of Return** - This method of appraisal measures the midpoint rate of return based on the FPSC approved return on equity and utility financial statements

**BTU (British Thermal Unit)** – The standard unit for measuring quantity of heat energy, such as the heat content of fuel. It is the amount of heat energy necessary to raise the temperature of one pound of water one degree Fahrenheit.

**Content of Fuel, Average** – The heat value per unit quantity of fuel expressed in BTU as determined from tests of fuel samples. Examples: BTU per pound of coal, per gallon of oil, etc.

**BTU per Kilowatt-Hour** – See **Heat Rate**.

**Capability** – The maximum load which a generating unit, generating station, or other electrical apparatus can carry under specified conditions for a given period of time, without exceeding approved limits of temperature and stress.

**Customer-Owned Solar Photovoltaic Generation** – Customers who install renewable energy generation systems (RGS) on their homes or businesses, such as solar photovoltaic (PV) systems, can interconnect with the distribution system and receive a billing credit for the solar energy they do not use.

**Gross System** – The net generating station capability of a system at a stated period of time (usually at the time of the system's maximum load), plus capability available at such time from other sources through firm power contracts.

Note: The Florida Electric Power Coordinating Group and much of the utility industry prefer a different definition. Their use of the word relates to the capability at the generator terminals and would therefore be defined as the "total capability of a system's generating units measured at their terminals."

**Margin of Reserve** – See **Capability Margin**.

**Net Generating Station** – The capability of a generating station as demonstrated by test or as determined by actual operating experience less power generated and used for auxiliaries and other station uses. Capability may vary with the character of the load, time of year (due to circulating water temperatures in thermal stations or availability of water in hydro stations), and other characteristic causes. Capability is sometimes referred to as Effective Rating.

**Net System** – The net generating station capability of a system at a stated period of time (usually at the time of the system's maximum load), plus capability available at such time from other sources through firm power contracts, less firm power obligations at such time to other companies or systems.

**Peaking** – Generating capability normally designed for use during the maximum load period of a designated time interval.

**Capability Margin/Reserve Margin** – The difference between net system capability and system maximum load requirements, operating requirements, and unforeseen loads.

**Capacity** – The load for which a generating unit, generating station, or other electrical apparatus is rated either by the use or by the manufacturer. See also Nameplate Rating.

**Dependable** – The load-carrying ability for the time interval and period specified when related to the characteristics of the load to be supplied. Dependable capacity of a station is determined by such factors as capability, operating power factor, and portion of the load which the station is to supply.

**Hydraulic** – The rating of a hydroelectric generating unit of the sum of such ratings for all units in a station or stations.

**Installed Generating** – See **Nameplate Rating**.

**Peaking** – Generating units or stations which are available to assist in meeting that portion of peak load which is above base load.

**Purchase** – The amount of power available for purchase from a source outside the system to supply energy or capacity.

**Renewable Generation Capacity** – is generally defined as energy that is collected from resources which are naturally replenished on a human timescale, such as sunlight, wind, rain, tides, waves, and geothermal heat.

**Reserve:**

**Cold** – Thermal generating units available for service but not maintained at operating temperature.

**Hot** – Thermal generating units available, up to temperature, and ready for service, although not actually in operation.

**Margin of** – See **Capability Margin**.

**Spinning** – Generating units connected to the bus and ready to take load.

**Thermal** – The rating of a thermal electric generating unit or the sum of such ratings for all units in a station or stations.

**Total Available** – See **Capability, Gross System**.

**Charge, Electric Energy** – See **Energy, Electric**.

**Classes of Electric Service** – See class name for each definition.

**Sales to Ultimate Customers: \***

Residential	Public Street and Highway Lighting
Commercial and Industrial	Other Public Authorities
Commercial	Railroads and Railways
Industrial	Interdepartmental
Small Light and Power	
Large Light and Power	

**Sales for Resale (Other Electric Utilities):**

Investor-Owned	Municipally-Owned
Cooperatively-Owned	Federal and State Electric Agencies

\* Companies serve rural customers under distinct rural rates and classify these sales as “Rural.” However, many companies serve customers in rural areas under standard Residential, Commercial, and Industrial rates and classify such sales similarly. Consequently, “Rural” is a rate classification rather than a customer classification, and since “Rural” is frequently confused with “Farm Service” (a type of Residential and/or Commercial service), the “Rural” classification has been generally discontinued as a customer classification.

**Classes of Electric Systems** – Federal Power Commission groupings (as of 1968) of operating systems based on volume and kinds of electric output for the purpose of reporting power system operations.

<b>Basis of Classification</b>	<b>Class of System</b>
Systems which generate all or part of system requirements and whose net energy for system for the year reported was:	
More than 100,000,000 kilowatt-hours.	<b>I</b>
20,000,000 to 100,000,000 kilowatt-hours.	<b>II</b>
Less than 20,000,000 kilowatt-hours.	<b>III</b>
Systems engaged primarily in sales for resale and/or sales to industrial, all other sales being negligible.	<b>IV</b>
Systems which obtain entire energy requirements from other systems.	<b>V</b>

**Combined Cycle** – Consists of three components: two combustion turbines, each with its own generator, and one steam boiler with associated steam turbine generator. The normally wasted combustion may also be supplementally fired.

**Conventional Fuels** – The fossil fuels: coal, oil, or gas.

**Cooperative, Rural Electric** – See **Rural**.

**Cooperatives (Cooperatively-Owned Electric Utilities)** – A joint venture organized for the purpose of supplying electric energy to a specified area. Such ventures are generally exempt from the federal income tax laws. Most cooperatives have been financed by the Rural Electrification Administration.

**Customer (Electric)** – A customer is an individual, firm, organization, or other electric utility which purchases electric service at one location under one rate classification, contract, or schedule. If service is supplied to a customer at more than one location, each location shall be counted as a separate customer unless consumption is combined before the bill is calculated.

Note 1: If service is supplied to a customer at one location through more than one meter and under several rate classifications or schedules but only for one class of service (for example, separate meters for residential regular and water heating service), such multiple rate services shall be counted as only one customer at the one location.

Note 2: Where service is used for one part of a month (prorated period), only initial bills of customers during such month only shall be counted; final bills should not be counted as customers.

Note 3: See also **Ultimate Customers**.

**Demand** – The rate at which electric energy is delivered to or by a system, part of a system, or a piece of equipment expressed in kilowatts, kilovolt-amperes, or other suitable unit at a given instant or averaged over any designated period of time. The primary source of “Demand” is the power-consuming equipment of the customers. See **Load**.

**Annual Maximum** – The greatest of all demands of the load under consideration which occurred during a prescribed demand interval in a calendar year.

**Annual System Maximum** – The greatest demand on an electric system during a prescribed demand interval in a calendar year.

## **Demand Continued**

**Average** – The demand on, or the power output of, an electric system or any of its parts over any interval of time, as determined by dividing the total number of kilowatt-hours by the number of units of time in the interval.

**Billing** – The demand upon which billing to a customer is based, as specified in a rate schedule or contract. Billing may be based on the contract year, a contract minimum, or a previous maximum and, therefore, does not necessarily coincide with the actual measured demand of the billing period.

**Coincident** – The sum of two or more demands which occur in the same demand interval.

**Instantaneous Peak** – The maximum demand at the instant of greatest load, usually determined from the readings of indicating or graphic meters.

**Integrated** – The demand usually determined by an integrating demand meter or by the integration of a load curve. An integrated demand is the summation of the continuously varying instantaneous demands during a specified demand interval.

**Maximum** – The greatest of all demands of the load under consideration which has occurred during a specified period of time.

**Noncoincident** – The sum of two or more individual demands which do not occur in the same demand interval. This term is meaningful only when considering demands within a limited period of time, such as a day, week, month, a heating or cooling season, and usually not for more than one year.

**Electric Utility Industry or Electric Utilities** – All enterprises engaged in the production and/or distribution of electricity for use by the public, including investor-owned electric utility companies; cooperatively-owned electric utilities; government-owned electric utilities (municipal systems, federal agencies, state projects, and public power districts); and, where the data are not separable, those industrial plants contributing to the public supply.

**Energy, Electric** – As commonly used in the electric utility industry, electric energy means kilowatt-hours.

## **Fuel Costs (Most Commonly Used by Electric Utility Companies)**

**Cents per Million BTU Consumed** – Since coal is purchased on the basis of its heat content, its cost is measured by computing the “cents per million BTU” of the fuel consumed. This figure is the total cost of fuel consumed divided by its total BTU content, and the answer is then divided by one million.

**Coal** – Average cost per (short) ton (dollars per ton) – includes bituminous and anthracite coal and relatively small amounts of coke, lignite, and wood.

**Gas** – Average cost per MCF (cents per thousand cubic feet) – includes natural, manufactured, mixed, and waste gas. Frequently expressed as cost per therm (100,000 BTU).

**Nuclear** – Nuclear fuel costs can be given on a fuel cycle basis. A fuel cycle consists of all the steps associated with procurement, use, and disposal of nuclear fuel. According for the cost of each step in the fuel cycle including interest charges, nuclear fuel costs can be given in cents per million BTU or mills per kilowatt-hour for the cycle lifetime of the fuel which is normally five to six years.

**Oil** – Average cost per barrel – 42 U.S. gallons (dollars per barrel) – includes fuel oil, crude and diesel oil, and small amounts of tar and gasoline.

**Fuel Efficiency** – See **Heat Rate**.

**Fuel for Electric Generation** – Includes all types of fuel (solid, liquid, gaseous, and nuclear) used exclusively for the production of electric energy.

**Gas** – A fuel burned under boilers by internal combustion engines and gas turbines for electric generation. Includes natural, manufactured, mixed, and waste gas. See **Gas – MCF** and also **Therm**.

**Gas - Fuel Costs** – See **Fuel Costs**.

**Gas - MCF** – 1,000 cubic feet of gas.

**Generating Capability** – See **Capability, Net Generating Station**.

**Generating Station (Generating Plant or Power Plant)** – A station with prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or nuclear energy into electric energy.

**Atomic** – See **Nuclear**.

**Gas Turbine** – An electric generating station in which the prime mover is a gas turbine engine.

**Generating Station Capability** – See **Capability, Net Generating Station**.

**Generating Unit** – An electric generator together with its prime mover.

**Generation, Electric** – This term refers to the act or process of transforming other forms of energy into electric energy, or to the amount of electric energy so produced, expressed in kilowatt-hours.

**Gross** – The total amount of electric energy produced by the generating units in a generating station or stations.

**Net** – Gross generation less kilowatt-hours consumed out of gross generation for station use.

**Geothermal** – An electric generating station in which the prime mover is a steam turbine. The steam is generated in the earth by heat from the earth's magma.

**Hydroelectric** – An electric generation station in which the prime mover is a hydraulic turbine.

**Internal Combustion** – An electric generating station in which the prime mover is an internal combustion engine.

**Nuclear** – An electric generating station in which the prime mover is a steam turbine. The steam is generated in a reactor by heat from the fissioning of nuclear fuel.

**Steam (Conventional)** – An electric generating station in which the prime mover is a steam turbine. The steam is generated in a boiler by heat from burning fossil fuels.

**Gigawatt-Hour (GWh)** – One million kilowatt-hours, one thousand megawatt-hours, or one billion watt-hours.

**Heat Rate** – A measure of generating station thermal efficiency, generally expressed in BTU per net kilowatt-hour. The heat rate is computed by dividing the total BTU content of fuel burned for electric generation by the resulting net kilowatt-hour generation.

**Industrial** – See **Commercial and Industrial**.

**Interdepartmental Sales** – Kilowatt-hour sales of electric energy to other departments (gas, steam, water, etc.) and the dollar value of such sales at tariff or other specified rates for the energy supplied.

**Internal Combustion Engine** – A prime mover in which energy released from rapid burning of a fuel-air mixture is converted into mechanical energy. Diesel, gasoline, and gas engines are the principal types in this category.

**Investor-Owned Electric Utilities** – Those electric utilities organized as tax-paying businesses usually financed by the sale of securities in the free market, and whose properties are managed by representatives regularly elected by their shareholders. Investor-owned electric utilities, which may be owned by an individual proprietor or a small group of people, are usually corporations owned by the general public.

**Kilowatt (kW)** – 1,000 watts. See **Watt**.

**Kilowatt-Hour (kWh)** – The basic unit of electric energy equal to one kilowatt of power supplied to or taken from an electric circuit steadily for one hour.

**Kilowatt-Hours per Capita** – Net generation in the United States divided by the national population, or the corresponding ratio for any other area.

**Large Light and Power** – See **Classes of Electric Services, Sales to Ultimate Customers**.

**Load** – The amount of electric power delivered or required at any specified point or points on a system. Load originates primarily at the power-consuming equipment of the customers. See **Demand**.

**Average** – See **Demand, Average**.

**Base** – The minimum load over a given period of time.

**Connected** – Connected load is the sum of the capacities or rating of the electric power-consuming apparatus connected to a supplying system, or any part of the system under consideration.

**Peak** – See **Demand, Maximum** and also **Demand, Instantaneous Peak**.

**Load Factor** – The ratio of the average load in kilowatts supplied during a designated period to the peak or maximum load in kilowatts occurring in that period. Load factor, in percent, also may be derived by multiplying the kilowatt-hours in the period by 100 and dividing by the product of the maximum demand in kilowatts and the number of hours in the period.

**Loss (Losses)** – The general term applied to energy (kilowatt-hours) and power (kilowatts) lost in the operation of an electric system. Losses occur principally as energy transformations from kilowatt-hours to waste heat in electric conductors and apparatus.

**Average** – The total difference in energy input and output or power input and output (due to losses) averaged over a time interval and expressed either in physical quantities or as a percentage of total input.

**Energy** – The kilowatt-hours lost in the operation of an electric system.

**Line** – Kilowatt-hours and kilowatts lost in transmission and distribution lines under specified conditions.

**Loss (Losses) Continued**

**Peak Percent** – The difference between the power input and output, as a result of losses due to the transfer of power between two or more points on a system at the time of maximum load, divided by the power input.

**System** – The difference between the system net energy or power input and output, resulting from characteristic losses and unaccounted for between the sources of supply and the metering points of delivery on a system.

**Margin of Reserve Capacity** – See **Capability Margin**.

**Maximum Demand** – See **Demand, Maximum**.

**Maximum Load** – See **Demand, Maximum**.

**Megawatt (MW)** – 1,000 kilowatts. See **Watt**.

**Megawatt-Hour (MWh)** – 1,000 kilowatt-hours. See **Kilowatt-Hours**.

**Municipally-Owned Electric System** – An electric utility system owned and/or operated by a municipality engaged in serving residential, commercial, and/or industrial customers, usually, but not always, within the boundaries of the municipality.

**Nameplate Rating** – The full-load continuous rating of a generator, prime mover, or other electrical equipment under specified conditions as designated by the manufacturer. The nameplate rating is usually indicated on a nameplate attached to the individual machine or device. The nameplate rating of a steam electric turbine-generator wet is the guaranteed continuous output in kilowatts or KVA (kilovolt-amperes = 1,000 volt-amperes) and power factor at generator terminals when the turbine is clean and operating under specified throttle steam pressure and temperature, specified reheat temperature, specified exhaust pressure, and with full extraction from all extraction openings.

**Net Capability** – See **Capability, Net Generating Station**.

**Net Energy for Load** – A term used in Federal Energy Regulatory Commission reports and comprising:

1. The net generation by the system's own plants, plus
2. Energy received from others (exclusive of receipts for borderline customers), less
3. Energy delivered for resale to those Class I and II systems which obtain a part of their power supply from sources other than the company's system.

**Net Energy for System** – A term used in Federal Energy Regulatory Commission reports and comprising:

1. The net generation by the system's own plants, plus
2. Energy received from others (exclusive of receipts for borderline customers), less
3. Energy delivered for resale to those Class I and II systems which obtain a part of their power supply from sources other than the company's system, plus
4. Energy received for borderline customers, less
5. Energy delivered for resale to all systems other than those specified in Item 3 preceding.

**Net Generating Station Capability** – See **Capability, Net Generating Station**.

**Net Generation** – See **Generation, Electric – Net**.

**Net Plant Capability** – See **Capability, Net Generating Station**.

**Nuclear Energy** – Energy produced in the form of heat during the fission process in a nuclear reactor. When released in sufficient and controlled quantity, this heat energy may be used to produce steam to drive a turbine-generator and thus be converted to electrical energy.

**Nuclear (Atomic) Fuel** – Material containing fissionable materials of such composition and enrichment that when placed in a nuclear reactor will support a self-sustaining fission chain reaction and produce heat in a controlled manner for process use.

**Prime Mover** – The engine, turbine, water wheel, or similar machine which drives an electric generator.

**Public Street and Highway Lighting** – A customer, sales, and revenue classification covering electric energy supplied and services rendered for lighting streets, highways, parks, and other public places, or for traffic or other signal service, for municipalities or other divisions or agencies of federal or state governments.

**Publicly Owned Electric Utilities (Government-Owned Electric Utilities and Agencies)** – When used in statistical tables to indicate class of ownership, this term includes municipally-owned electric systems and federal and state public power projects. Cooperatives are not included in this grouping.

**Renewable Generation Capacity** – See **Capacity**.

**Reserve Capacity** – See **Capacity**.

**Residential** – A customer, sales, or revenue classification covering electric energy supplied for residential (household) purposes. The classification of an individual customer's account where the use is both residential and commercial is based on principal use.

**Rural** – A rate classification covering electric energy supplied to rural and farm customers under distinct rural rates. See **Classes of Electric Service**.

**Sales for Resale** – A customer, sales, and revenue classification covering electric energy supplied (except under interchange agreements) to other electric utilities or to public authorities for resale or distribution. Includes sales for resale to cooperatives, municipalities, and federal and state electric agencies.

**Service Area** – Territory in which a utility system is required or has the right to supply electric service to ultimate customers.

**Solar Photovoltaic (PV)** – These devices generate electricity directly from sunlight via an electronic process that occurs naturally in certain types of material, called semiconductors. Electrons in these materials are freed by solar energy and can be induced to travel through an electrical circuit, powering electrical devices or sending electricity to the grid.

**Station Use (Generating)** – The kilowatt-hours used at an electric generating station for such purposes as excitation and operation of auxiliary and other facilities essential to the operation of the station. Station use includes electric energy supplied from house generators, main generators, the transmission system, and any other sources. The quantity of energy used is the difference between the gross generation plus any supply from outside the station and the net output of the station.

**Summer Peak** – The greatest load on an electric system during any prescribed demand interval in the summer or cooling season, usually between June 1 and September 30.

**System, Electric** – The physically connected generation, transmission, distribution, and other facilities operated as an integral unit under one control, management, or operating supervision.



**System Load** – See **Demand**.

**System Loss** – See **Loss (Losses)**.

**Therm** – 100,000 BTUs. See **BTU (British Thermal Unit)**.

**Thermal** – A term used to identify a type of electric generating station, capacity or capability, or output in which the source of energy for the prime mover is heat.

**Turbine (Steam or Gas)** – An enclosed rotary type of prime mover in which heat energy in steam or gas is converted into mechanical energy by the force of a high velocity flow of steam or gases directed against successive rows of radial blades fastened to a central shaft.

**Ultimate Customers** – Those customers purchasing electricity for their own use and not for resale. See **Classes of Electric Service**.

**Uses and Losses** – “Uses” refers to the electricity used by the electric companies for their own purposes and “losses” refers to transmission losses.

**Utility Rate Structure** – A utility’s approved schedule of charges for billing utility service rendered to various classes of its customers.

**Volt-Ampere** – The basic unit of apparent power. The volt-amperes of an electric circuit are the mathematical product of the volts and amperes of the circuit.

**Watt** – The electrical unit of power or rate of doing work; also the rate of energy transfer equivalent to one ampere flowing under a pressure of one volt at unity power factor. A watt is analogous to horsepower or foot-pounds per minute of mechanical power. One horsepower is equivalent to approximately 746 watts.

**Winter Peak** – The greatest load on an electric system during any prescribed demand interval in the winter or heating season, usually between December 1 of a calendar year and March 31 of the next calendar year.

**Sources:** Edison Electric Institute  
Florida Electric Power Coordinating Group, Inc.  
Florida Office of Energy