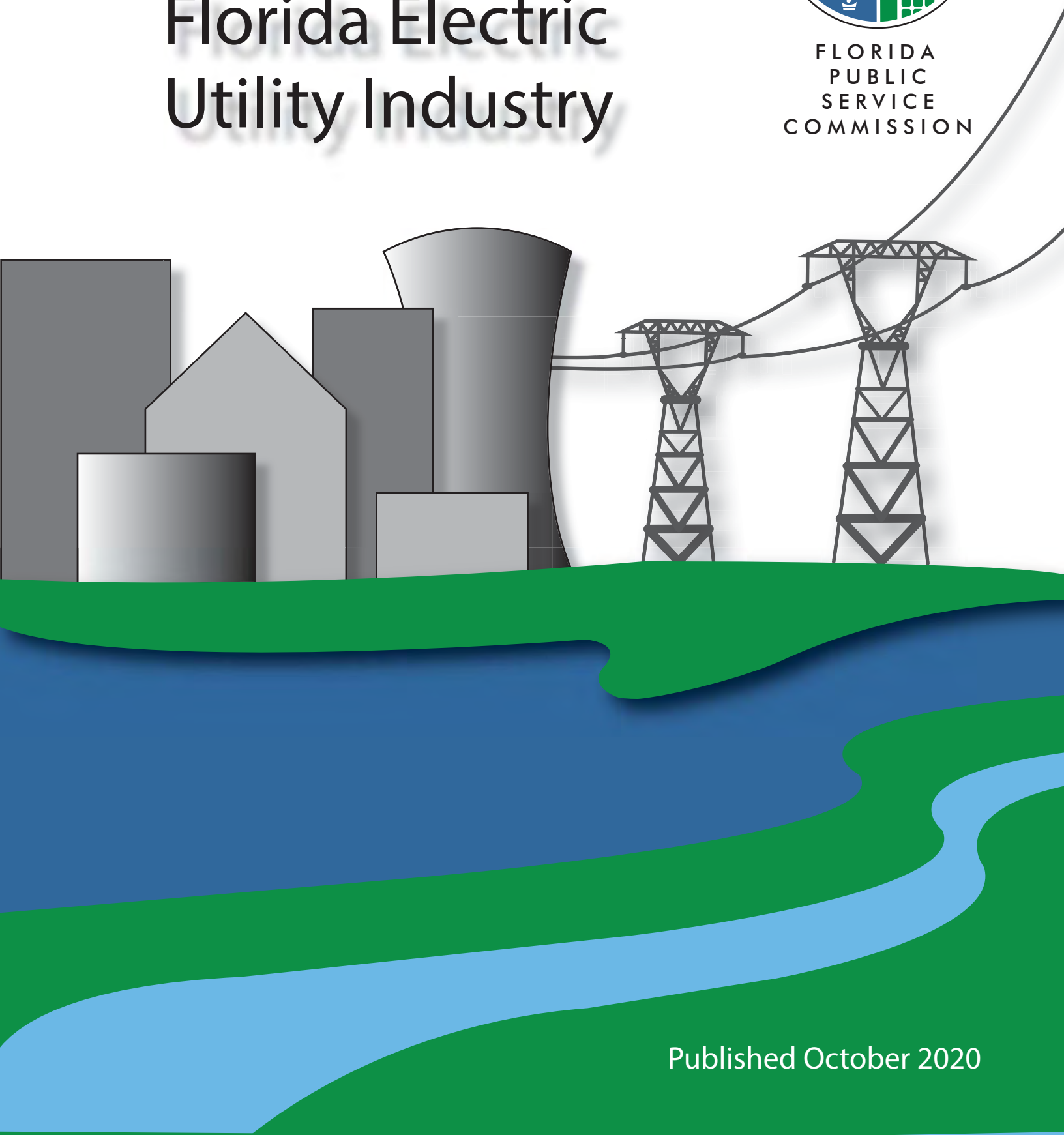
STATISTICS OF THE

Florida Electric Utility Industry

FLORIDA
PUBLIC
SERVICE
COMMISSION



Published October 2020

Statistics of the
Florida Electric Utility Industry
2019

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.

This report was compiled by the Florida Public Service Commission
Office of Industry Development and Market Analysis

Contents

Continued

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

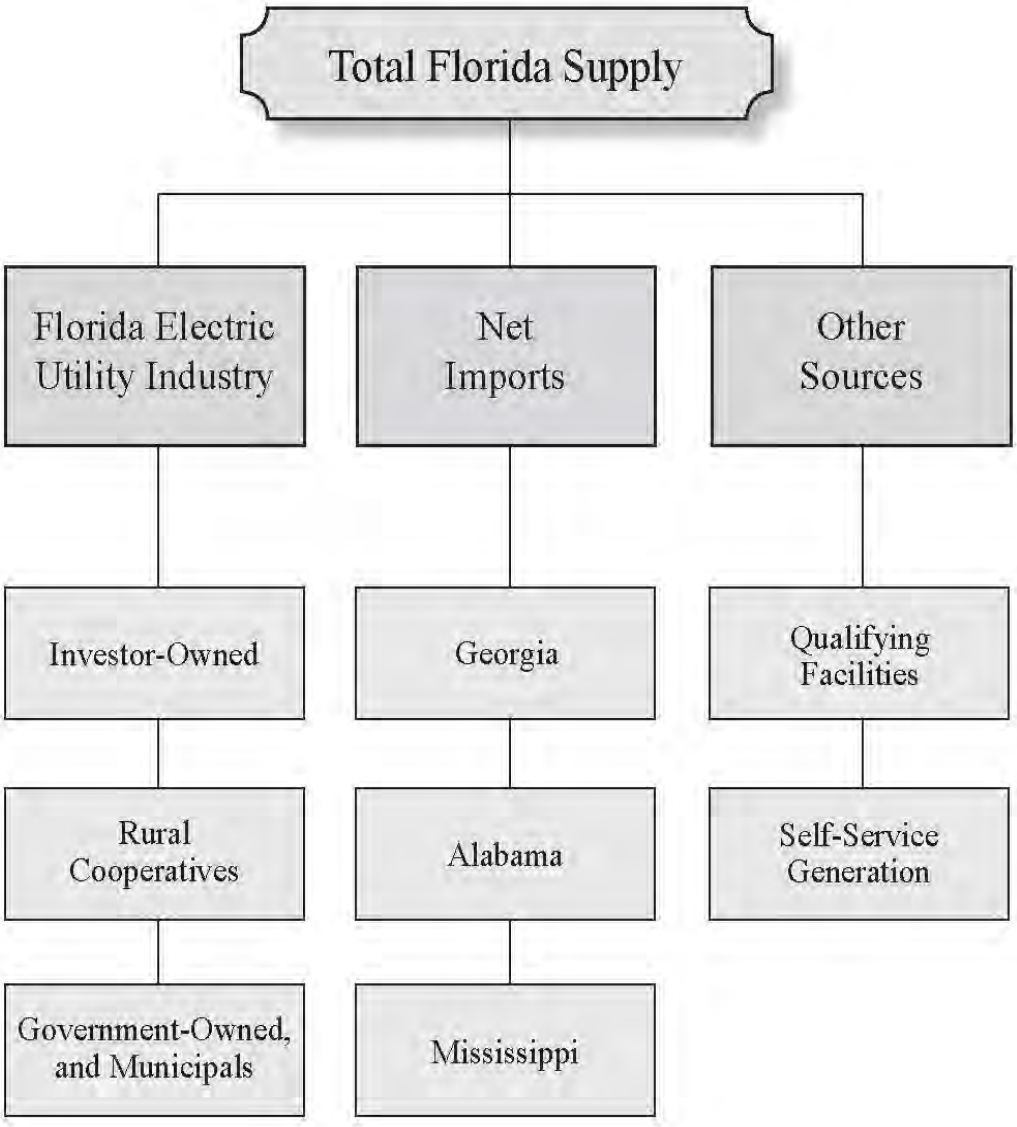
Peak Load = That 60 minute demand interval for which gross generated MWh was highest for the year.

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.

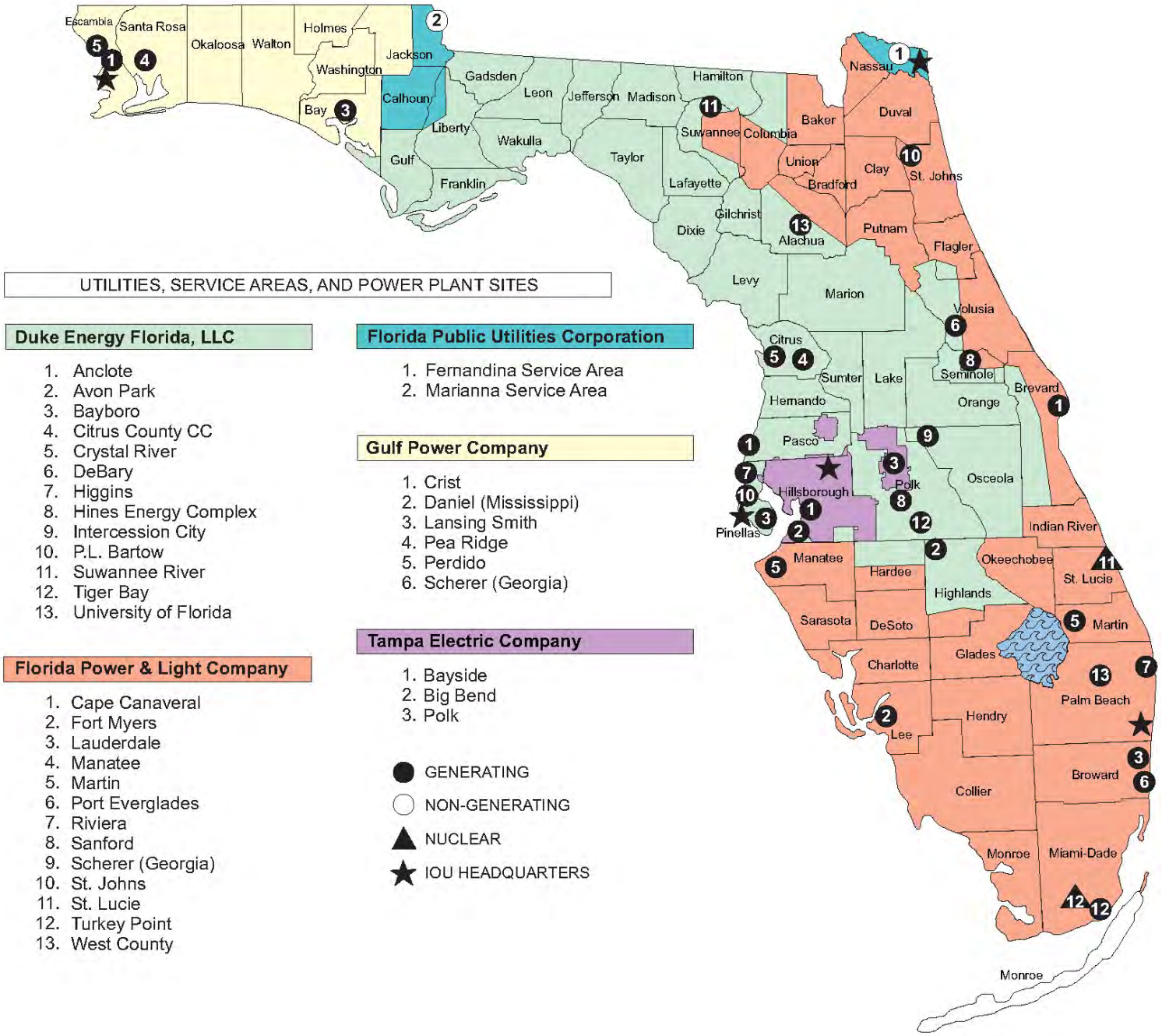
The closer the load factor is to one, the flatter the load curve or the lower the difference between maximum and minimum levels of use is over a one-year period. The closer the load factor is to zero, the greater this difference is, and therefore, the magnitude of peaking across the load curve is greater.

Overview

Florida Sources of Electricity by Type of Ownership



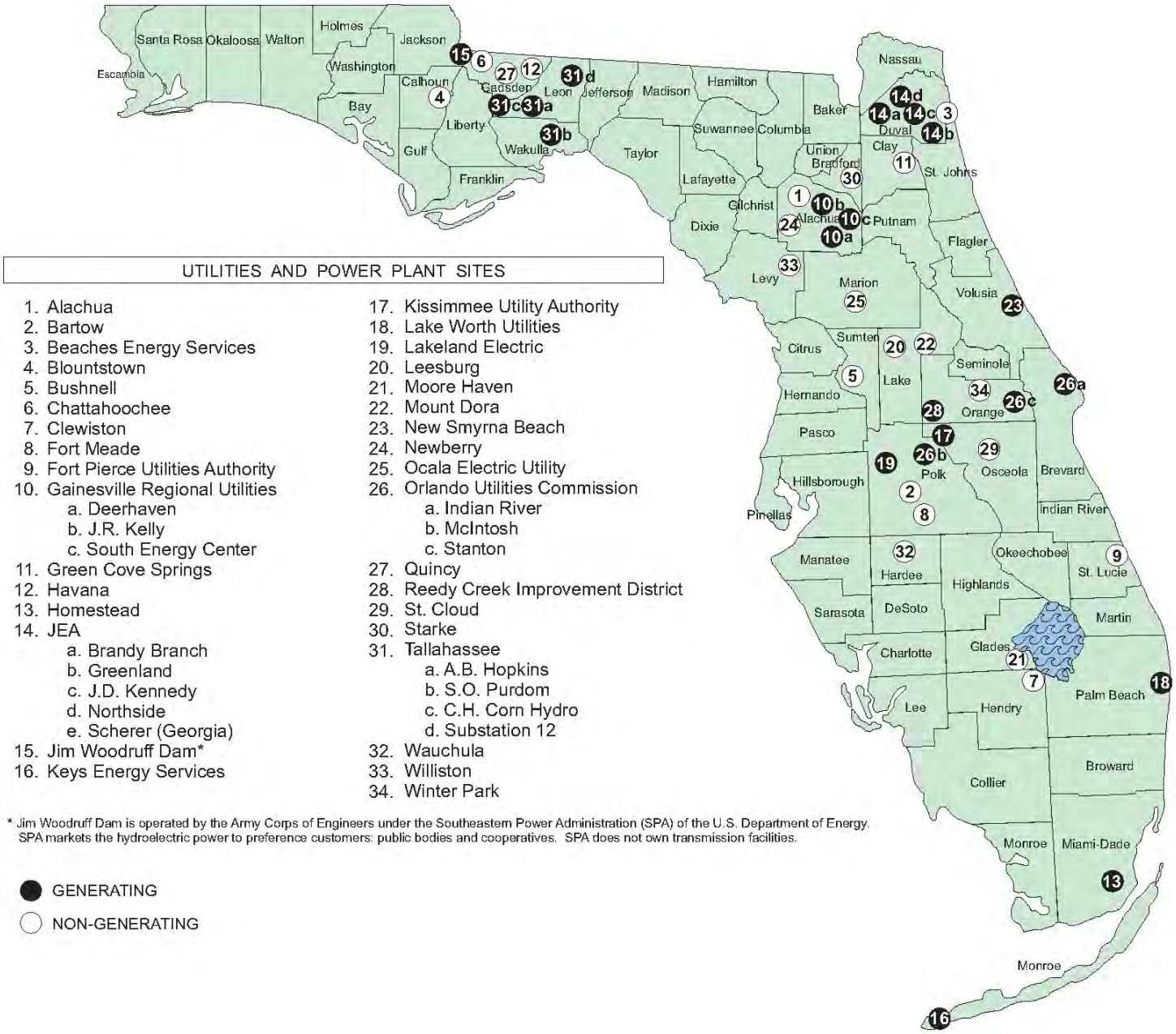
Investor-Owned Electric
2019



* 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
2019



UTILITIES AND POWER PLANT SITES

1. Alachua
2. Bartow
3. Beaches Energy Services
4. Blountstown
5. Bushnell
6. Chattahoochee
7. Clewiston
8. Fort Meade
9. Fort Pierce Utilities Authority
10. Gainesville Regional Utilities
    a. Deerhaven
    b. J.R. Kelly
    c. South Energy Center
11. Green Cove Springs
12. Havana
13. Homestead
14. JEA
    a. Brandy Branch
    b. Greenland
    c. J.D. Kennedy
    d. Northside
    e. Scherer (Georgia)
15. Jim Woodruff Dam*
16. Keys Energy Services
17. Kissimmee Utility Authority
18. Lake Worth Utilities
19. Lakeland Electric
20. Leesburg
21. Moore Haven
22. Mount Dora
23. New Smyrna Beach
24. Newberry
25. Ocala Electric Utility
26. Orlando Utilities Commission
    a. Indian River
    b. McIntosh
    c. Stanton
27. Quincy
28. Reedy Creek Improvement District
29. St. Cloud
30. Starke
31. Tallahassee
    a. A.B. Hopkins
    b. S.O. Purdom
    c. C.H. Corn Hydro
    d. Substation 12
32. Wauchula
33. Williston
34. Winter Park

* 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.

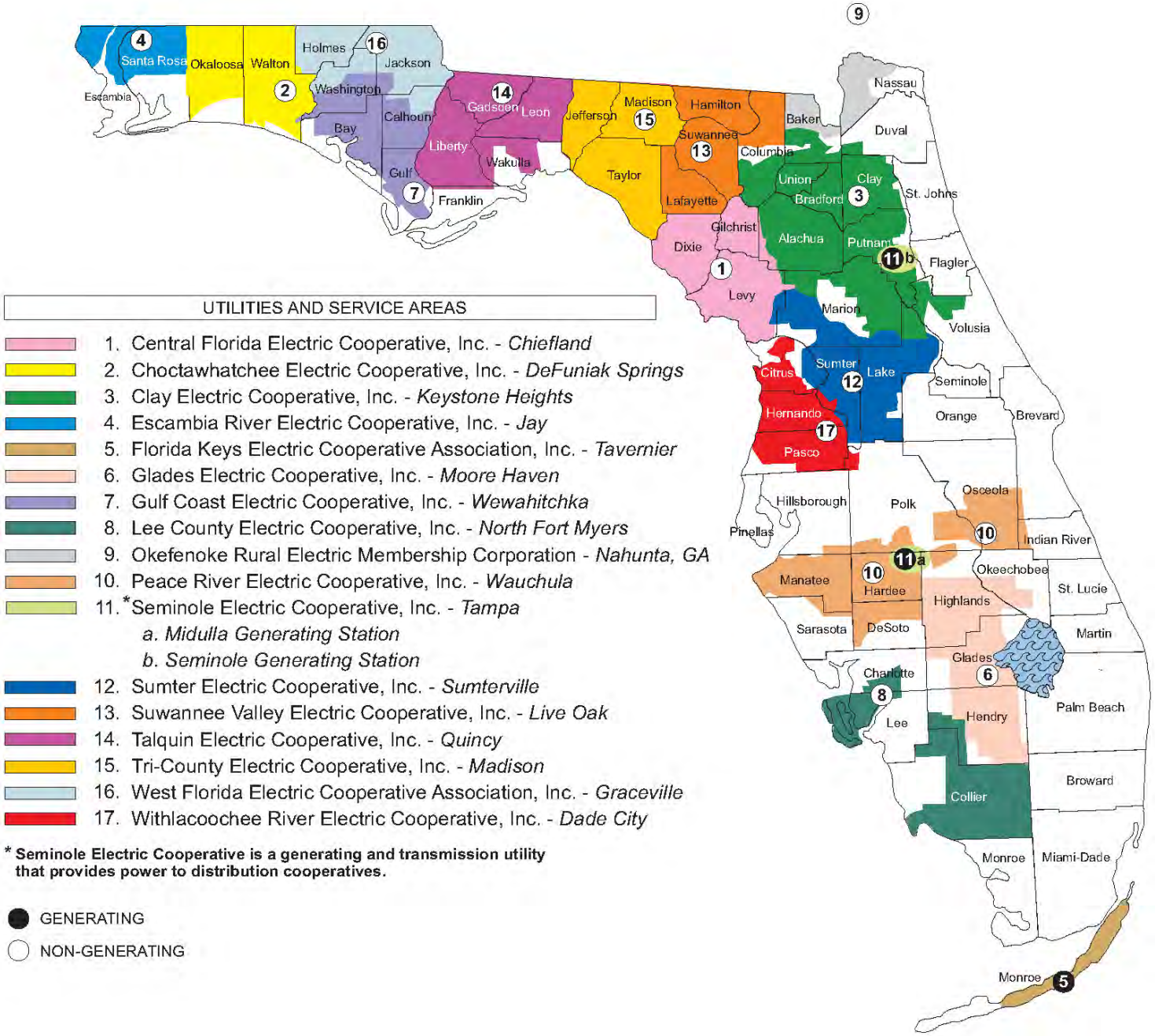
● GENERATING

○ NON-GENERATING

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

Source: Florida Public Service Commission.

Rural Electric Cooperatives
2019

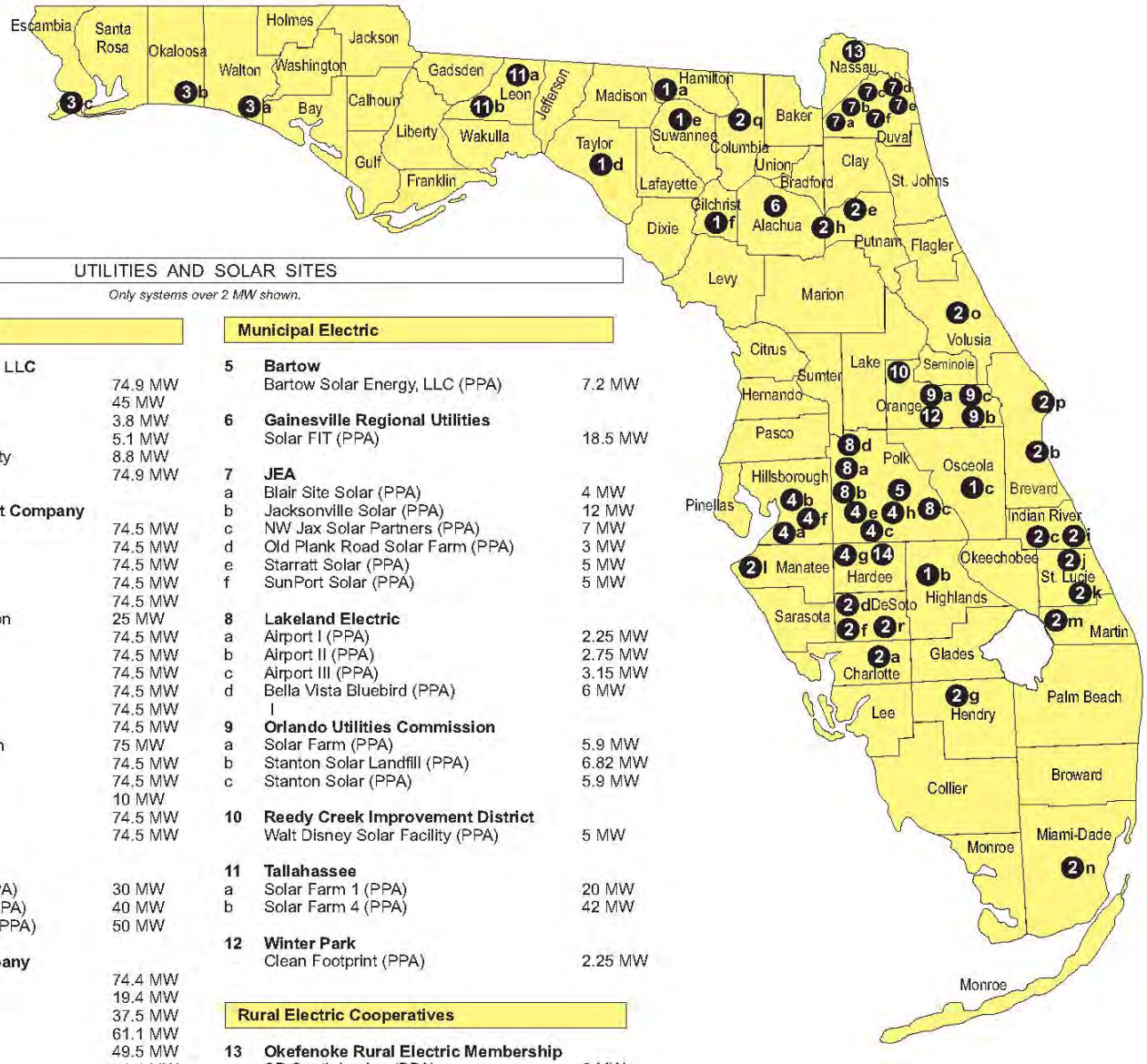


* Excludes solar generation. Service areas are approximations. Information on this map should be used only as a general guideline. For more detailed information, contact individual utilities.

Source: Florida Public Service Commission.

Florida Solar Electric

2019



UTILITIES AND SOLAR SITES

Only systems over 2 MW shown.

Invester-Owned Electric

1	**Duke Energy Florida, LLC**	
a	Hamilton	74.9 MW
b	Lake Placid	45 MW
c	Osceola	3.8 MW
d	Perry	5.1 MW
e	Suwannee Solar Facility	8.8 MW
f	Trenton	74.9 MW
2	**Florida Power & Light Company**	
a	Babcock Ranch	74.5 MW
b	Barefoot Bay	74.5 MW
c	Blue Cypress	74.5 MW
d	Citrus Solar	74.5 MW
e	Coral Farms	74.5 MW
f	Desoto Next Generation	25 MW
g	Hammock	74.5 MW
h	Horizon	74.5 MW
i	Indian River	74.5 MW
j	Interstate Solar	74.5 MW
k	Loggerhead	74.5 MW
l	Manatee Solar	74.5 MW
m	Martin Next Generation	75 MW
n	Miami Dade	74.5 MW
o	Pioneer Trail	74.5 MW
p	Space Coast	10 MW
q	Sunshine Gateway	74.5 MW
r	Wildflower	74.5 MW
3	**Gulf Power**	
a	Eglin Solar Project (PPA)	30 MW
b	Holley Solar Project (PPA)	40 MW
c	Saufley Solar Project (PPA)	50 MW
4	**Tampa Electric Company**	
a	Balm	74.4 MW
b	Big Bend	19.4 MW
c	Bonnie Mine	37.5 MW
d	Grange Hall	61.1 MW
e	Lake Hancock	49.5 MW
f	Lithia	74.4 MW
g	Payne Creek	70.3 MW
h	Peace Creek	55.4 MW

Municipal Electric

5	**Bartow**	
	Bartow Solar Energy, LLC (PPA)	7.2 MW
6	**Gainesville Regional Utilities**	
	Solar FIT (PPA)	18.5 MW
7	**JEA**	
a	Blair Site Solar (PPA)	4 MW
b	Jacksonville Solar (PPA)	12 MW
c	NW Jax Solar Partners (PPA)	7 MW
d	Old Plank Road Solar Farm (PPA)	3 MW
e	Starratt Solar (PPA)	5 MW
f	SunPort Solar (PPA)	5 MW
8	**Lakeland Electric**	
a	Airport I (PPA)	2.25 MW
b	Airport II (PPA)	2.75 MW
c	Airport III (PPA)	3.15 MW
d	Bella Vista Bluebird (PPA)	6 MW
	I	
9	**Orlando Utilities Commission**	
a	Solar Farm (PPA)	5.9 MW
b	Stanton Solar Landfill (PPA)	6.82 MW
c	Stanton Solar (PPA)	5.9 MW
10	**Reedy Creek Improvement District**	
	Walt Disney Solar Facility (PPA)	5 MW
11	**Tallahassee**	
a	Solar Farm 1 (PPA)	20 MW
b	Solar Farm 4 (PPA)	42 MW
12	**Winter Park**	
	Clean Footprint (PPA)	2.25 MW

Rural Electric Cooperatives

13	**Okefenoke Rural Electric Membership**	
	SR South Loving (PPA)	6 MW
14	**Seminole Electric**	
	MGS Solar Facility (PPA)	2.2 MW

* Information on this map should be used only as a general guideline. For more detailed information, contact individual utilities.

** PPA systems are Power Purchase Agreements

Source: Florida Public Service Commission.

Florida Electric Utility Industry
2019

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
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
2019

Utility	County
Investor-Owned	
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
Municipal	
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
Rural Electric Cooperative	
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
2019

Utility	County
Investor-Owned	
Florida Public Utilities Company	Calhoun, Jackson, Liberty, Nassau
Municipal	
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
Wauchula	Hardee
Williston	Levy
Winter Park	Orange
Rural Electric Cooperative	
Central Florida Electric	Alachua, Dixie, Gilchrist, Lafayette, Levy, Marion
Choctawhatchee Electric	Holmes, Okaloosa, Santa Rosa, Walton
Clay Electric	Alachua, Baker, Bradford, Clay, Columbia, Flagler, Gilcrist, 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.

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

Highlights of the Florida Electric Utility Industry
2015-2019

	2015	2016	2017	2018	2019
Total Installed Capacity (Megawatts) *	58,422	58,295	58,506	56,359	57,758
Installed Capacity by Fuel Type (Percentage)					
Natural Gas	55%	58%	63%	63%	62%
Coal	21	17	20	20	16
Nuclear	6	6	6	6	6
Other **	18	18	11	11	16
Total *	100%	100%	100%	100%	100%
Energy Sales (Gigawatt-hours)					
Residential	122,535	123,449	121,687	125,089	127,155
Commercial	88,530	85,147	84,617	86,241	86,831
Industrial	16,617	20,848	20,670	20,782	19,418
Other	6,437	6,708	6,746	6,784	7,171
Total	234,119	236,152	233,720	238,896	240,576
Number of Customers (Thousands)					
Residential	9,130	9,197	9,398	9,515	9,584
Commercial	1,133	1,134	1,150	1,164	1,176
Industrial	20	29	28	25	25
Other	132	135	143	157	153
Total	10,415	10,495	10,719	10,861	10,938
Average Residential Bill (1,000 kWh) ***	$116.62	$113.58	$115.86	$113.77	$112.28

* 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
2015-2019

	2015	2016	2017	2018	2019
Average per Book Rate of Return					
Duke Energy Florida, LLC	5.70%	5.97%	6.39%	5.94%	5.94%
Florida Power & Light Company	7.59	7.30	6.95	7.29	7.45
Gulf Power Company	5.45	5.01	5.41	4.02	4.86
Tampa Electric Company	6.52	6.36	6.31	6.26	6.23
Average Adjusted Rate of Return					
Duke Energy Florida, LLC	6.70%	6.34%	6.38%	5.92%	6.40%
Florida Power & Light Company	6.84	6.63	6.32	6.70	6.81
Gulf Power Company	5.79	5.18	5.68	5.84	5.88
Tampa Electric Company	6.64	6.48	6.41	6.24	6.36
FPSC Authorized Rate of Return *					
Duke Energy Florida, LLC	6.90%	6.65%	6.68%	6.53%	6.27%
Florida Power & Light Company	6.37	6.17	6.09	6.22	6.32
Gulf Power Company	5.56	5.45	5.47	5.54	5.56
Tampa Electric Company	6.22	6.12	6.03	6.10	6.32
Adjusted Jurisdictional Year-End Rate Base (Millions)					
Duke Energy Florida, LLC	$10,133	$10,485	$11,339	$13,186	$13,662
Florida Power & Light Company	27,760	31,457	34,619	36,816	40,897
Gulf Power Company	2,000	2,106	2,487	2,610	2,743
Tampa Electric Company	4,445	4,724	5,592	6,100	6,556

* Average Capital Structure - Midpoint.

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

Table 2

Sources of Revenue
(Percentage of Total Sales) *
2015-2019

	2015	2016	2017	2018	2019
Duke Energy Florida, LLC					
Residential	56.32%	57.78%	57.71%	58.36%	58.50%
Commercial	25.98	25.39	26.08	26.01	25.78
Industrial	6.21	5.82	5.92	5.55	5.25
Other	6.80	6.56	6.76	6.66	6.60
Sales for Resale	4.70	4.45	3.52	3.42	3.87
Total	100%	100%	100%	100%	100%
Total Sales (Millions)	$4,661.86	$4,160.85	$4,248.08	$4,644.95	$4,838.13
Florida Power & Light Company					
Residential	56.14%	56.46%	56.77%	56.96%	57.26%
Commercial	36.79	36.59	36.52	35.88	35.71
Industrial	1.81	1.77	1.75	1.71	1.64
Other	0.79	0.82	0.85	0.80	0.78
Sales for Resale	4.47	4.37	4.12	4.65	4.61
Total	100%	100%	100%	100%	100%
Total Sales (Millions)	$11,196.35	$10,532.48	$11,421.96	$11,231.75	$11,613.91
Gulf Power Company					
Residential	49.30%	50.55%	49.86%	49.83%	52.48%
Commercial	28.78	28.83	28.53	27.11	27.91
Industrial	10.43	10.63	9.97	9.35	9.56
Other	0.31	0.31	0.33	0.36	0.38
Sales for Resale	11.17	9.69	11.31	13.35	9.67
Total	100%	100%	100%	100%	100%
Total Sales (Millions)	$1,489.56	$1,415.66	$1,443.92	$1,400.38	$1,394.04
Tampa Electric Company					
Residential	52.29%	52.55%	52.44%	53.12%	53.57%
Commercial	30.56	30.11	30.11	28.99	28.78
Industrial	8.05	8.17	8.24	8.02	7.98
Other	8.91	8.85	8.78	9.33	9.36
Sales for Resale	0.19	0.32	0.43	0.54	0.31
Total	100%	100%	100%	100%	100%
Total Sales (Millions)	$1,989.34	$1,970.65	$1,917.86	$2,009.25	$1,955.90

* 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) *
2015-2019

	2015	2016	2017	2018	2019
Duke Energy Florida, LLC					
Fuel	27.38%	26.64%	27.84%	27.09%	24.29%
Other Operation and Maintenance	29.86	35.68	32.77	34.61	31.31
Depreciation and Amortization	14.06	7.47	7.93	12.38	15.76
Taxes Other Than Income Taxes	7.10	7.42	7.66	7.62	7.67
Income Taxes	6.27	6.74	6.78	2.08	2.70
Interest	4.01	4.36	5.48	5.24	5.85
Net Operating Income Less Interest	11.32	11.70	11.56	10.98	12.41
Total	100%	100%	100%	100%	100%
Total Operating Revenue (Millions)	$4,936.08	$4,469.85	$4,512.68	$4,887.81	$5,088.73
Florida Power & Light Company					
Fuel	28.66%	26.68%	26.84%	28.40%	24.44%
Other Operation and Maintenance	21.99	18.36	28.10	13.12	17.47
Depreciation and Amortization	12.07	12.74	4.39	19.32	18.23
Taxes Other Than Income Taxes	10.55	11.17	11.15	11.36	11.41
Income Taxes	8.45	10.08	11.04	4.51	3.56
Interest	3.72	4.12	4.00	4.62	4.95
Net Operating Income Less Interest	14.57	16.86	14.47	18.67	19.95
Total	100%	100%	100%	100%	100%
Total Operating Revenue (Millions)	$11,467.74	$10,691.84	$11,594.06	$11,497.89	$11,824.21
Gulf Power Company					
Fuel	29.98%	29.07%	28.17%	28.70%	24.87%
Other Operation and Maintenance	32.97	32.24	33.90	35.88	32.34
Depreciation and Amortization	9.07	10.85	8.93	12.87	16.12
Taxes Other Than Income Taxes	7.94	8.07	7.67	8.04	7.78
Income Taxes	6.09	5.87	6.94	-1.01	2.84
Interest	3.72	3.70	3.31	3.63	3.73
Net Operating Income Less Interest	10.24	10.21	11.07	11.89	12.33
Total	100%	100%	100%	100%	100%
Total Operating Revenue (Millions)	$1,483.01	$1,484.63	$1,516.49	$1,465.15	$1,483.83
Tampa Electric Company					
Fuel	31.78%	28.73%	30.99%	30.71%	26.33%
Other Operation and Maintenance	24.01	25.82	22.22	26.91	21.97
Depreciation and Amortization	13.88	15.58	11.33	12.43	19.57
Taxes Other Than Income Taxes	7.62	7.72	8.15	8.14	8.21
Income Taxes	6.98	6.39	8.49	3.14	2.92
Interest	4.66	4.53	5.24	4.95	5.83
Net Operating Income Less Interest	11.08	11.23	13.58	13.71	15.16
Total	100%	100%	100%	100%	100%
Total Operating Revenue (Millions)	$2,053.05	$2,024.12	$1,987.79	$2,068.73	$2,006.93

* May not total due to rounding.

Source: Florida Public Service Commission, 2019 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, 2019

	Duke Energy Florida, LLC	Florida Power & Light Company	Gulf Power Company	Tampa Electric Company
Proprietary Capital (Thousands)				
Common Stock	$0	$1,373,069	$678,060	$119,697
Preferred Stock	0	0	0	0
Retained Earnings	5,017,733	9,180,354	25,664	194,850
Other Paid-In Capital	1,766,035	10,855,413	1,012,370	2,850,840
Other Adjustments	5,919	-3,741	-562	-1,635
Total Proprietary Capital	$6,789,687	$21,405,095	$1,715,532	$3,163,752
Long-Term Debt (Thousands)				
Bonds	$6,425,000	$12,938,271	$408,955	$2,566,730
Other Long-Term Debt and/or Adjustments	389,476	1,192,536	1,286,020	-9,026
Total Long-Term Debt	$6,814,476	$14,130,807	$1,694,975	$2,557,704
Total Proprietary Capital and Long-Term Debt	$13,604,163	$35,535,902	$3,410,507	$5,721,456
Proprietary Capital (Percent)				
Common Stock	0.0%	3.9%	19.9%	2.1%
Preferred Stock	0.0	0.0	0.0	0.0
Retained Earnings	36.9	25.8	0.8	3.4
Other Paid-In Capital	13.0	30.5	29.7	49.8
Other Adjustments	0.0	0.0	0.0	0.0
Total Proprietary Capital	49.9%	60.2%	50.3%	55.3%
Long-Term Debt (Percent)				
Bonds	47.2%	36.4%	12.0%	44.9%
Other Long-Term Debt and/or Adjustments	2.9	3.4	37.7	-0.2
Total Long-Term Debt	50.0%	39.7%	49.6%	44.7%
Total Proprietary Capital and Long-Term Debt	100%	100%	100%	100%

* May not total due to rounding.

Source: Florida Public Service Commission, 2019 Annual Report, FERC Form No. 1, p. 112.

Table 5

Financial Integrity Indicators
2015-2019

	2015	2016	2017	2018	2019
Times Interest Earned with AFUDC					
Duke Energy Florida, LLC	4.35 x	5.01 x	3.59 x	3.24 x	3.76 x
Florida Power & Light Company	6.61	6.84	6.96	5.79	5.53
Gulf Power Company	5.09	5.21	5.56	3.62	5.29
Tampa Electric Company	4.70	4.68	5.23	4.34	4.07
Times Interest Earned without AFUDC					
Duke Energy Florida, LLC	4.31 x	4.82 x	3.35 x	2.99 x	3.74 x
Florida Power & Light Company	6.42	6.64	6.76	5.59	5.40
Gulf Power Company	4.79	5.21	5.55	3.62	5.26
Tampa Electric Company	4.45	4.34	5.20	4.20	3.94
AFUDC as a Percentage of Net Income Interest Coverage Ratio					
Duke Energy Florida, LLC	1.76 %	6.29 %	8.35 %	5.05 %	1.16 %
Florida Power & Light Company	4.88	5.09	4.90	5.00	3.24
Gulf Power Company	10.80	-0.01	0.07	0.08	1.06
Tampa Electric Company	9.26	12.44	0.75	4.73	4.58
Percent Internally Generated Funds					
Duke Energy Florida, LLC	82.02 %	96.78 %	69.21 %	62.87 %	69.21 %
Florida Power & Light Company	74.83	82.44	45.38	82.29	39.93
Gulf Power Company	100.65	142.32	90.11	9.95	-48.46
Tampa Electric Company	75.04	87.81	112.53	52.82	63.99

Source: Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry; Florida Public Service Commission, December 2019 Earnings Surveillance Report, Schedule 1.

Net Generation

Table 6

Net Energy for Load
2010-2019

Year	Total Net Energy for Load (Gigawatt-Hours)	Investor-Owned		Other *	
		Quantity (Gigawatt-Hours)	Percent of Total	Quantity (Gigawatt-Hours)	Percent of Total
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
2019	266,681	202,481	75.9	64,200	24.1

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

Source: Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry; Florida Public Service Commission, Utility Ten-Year Site Plans (April 2020), Schedule Nos. 2.3 and 3.3; Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2020), FRCC Form 9.1, p. S-17.

Table 7

Net Energy for Load (NEL) by Fuel Type and Other Sources *
2010-2019

	Coal		Oil		Natural Gas		Nuclear		Hydro		NEL	Other Sources		NEL
Year	Gigawatt-Hours	Percent	Gigawatt-Hours	Percent	Gigawatt-Hours	Percent	Gigawatt-Hours	Percent	Gigawatt-Hours	Percent	Subtotal	NUG **	Other ***	Total
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
2019	28,599	12.0	517	0.2	180,726	75.7	28,838	12.1	10	0.0	238,690	1,803	26,188	266,681

* 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 2020), FRCC Form 9.1, p. S-17.

Table 8

Projected Net Energy for Load by Fuel Type and Other Sources
(Gigawatt-Hours)
2020-2029

Year	Net Energy for Load	Interchange & Other *	Nuclear	Coal	Oil	Natural Gas	Hydro	NUG
2020	265,741	25,751	29,430	25,545	57	182,959	5	1,994
2021	267,342	30,282	29,563	25,666	72	179,755	5	1,999
2022	268,762	43,782	30,252	19,423	74	173,223	5	2,003
2023	270,826	44,194	29,569	15,286	30	179,739	5	2,003
2024	272,921	45,841	29,810	15,383	75	180,985	5	822
2025	274,912	49,092	30,277	16,043	78	178,920	5	497
2026	277,029	53,249	29,841	16,025	68	177,839	5	2
2027	279,025	55,419	29,769	16,375	92	177,363	5	2
2028	281,423	58,070	30,360	17,134	130	175,722	5	2
2029	283,581	61,416	29,826	17,524	103	174,705	5	2

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

Source: Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2020), FRCC Form 9.1, p. S-17.

Table 9

Projected Net Energy for Load by Percentage of Fuel Type and Other Sources
2020-2029

Year	Net Energy for Load *	Interchange & Other **	Nuclear	Coal	Oil	Natural Gas	Hydro	NUG
2020	100%	9.69%	11.07%	9.61%	0.02%	68.85%	0.00%	0.75%
2021	100	11.33	11.06	9.60	0.03	67.24	0.00	0.75
2022	100	16.29	11.26	7.23	0.03	64.45	0.00	0.75
2023	100	16.32	10.92	5.64	0.01	66.37	0.00	0.74
2024	100	16.80	10.92	5.64	0.03	66.31	0.00	0.30
2025	100	17.86	11.01	5.84	0.03	65.08	0.00	0.18
2026	100	19.22	10.77	5.78	0.02	64.20	0.00	0.00
2027	100	19.86	10.67	5.87	0.03	63.57	0.00	0.00
2028	100	20.63	10.79	6.09	0.05	62.44	0.00	0.00
2029	100	21.66	10.52	6.18	0.04	61.61	0.00	0.00

* May not total due to rounding.

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

Source: Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2020), FRCC Form 9.1, p. S-17.

Generating Capacity and Capability

Table 10

Installed Nameplate Capacity/Firm Summer Net Capability
(Megawatts)
2010-2019

Year	Hydro-Electric	Conventional Steam	Nuclear Steam	Combustion Turbine	Internal Combustion	Combined Cycle	Solar Photovoltaic	Total *
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	55,064
2018	51	12,770	3,625	7,563	134	28,137	599	52,879
2019	51	12,363	3,479	7,992	207	31,038	981	56,095

* 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 2020), 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) 2010-2019

Year	Total for State *	Investor-Owned		Municipal, Rural Electric Cooperative, and Other **	
		Quantity	Percent of Total	Quantity	Percent of Total
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
2019	56,095	43,858	78.19	12,237	21.81

* 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 2020), FRCC Form 1.0, pp. 7-20, S-8, and S-9.

Table 12

Installed Capacity by Fuel and Technology
(Megawatts)
2017-2019

Fuel	Technology	2017	2018	2019
Natural Gas				
	Combined Cycle	25,758	27,321	28,274
	Turbine & Diesel	6,280	5,555	5,588
	Steam	5,060	5,060	3,358
Total Natural Gas		37,098	37,936	37,220
Percentage of Total		62.70%	63.29%	62.31%
Coal				
	Steam	11,736	11,486	9,310
	Combined Cycle	220	220	220
Total Coal		11,956	11,706	9,530
Percentage of Total		20.21%	19.53%	15.95%
Oil				
	Turbine & Diesel	1,551	1,518	1,658
	Steam	0	0	0
Total Oil		1,551	1,518	1,658
Percentage of Total		2.62%	2.53%	2.78%
Nuclear				
	Steam	3,599	3,599	3,625
Total Nuclear		3,599	3,599	3,625
Percentage of Total		6.08%	6.00%	6.07%
Other *				
		4,968	5,180	7,703
Total Other		4,968	5,180	7,703
Percentage of Total		8.40%	8.64%	12.90%
Total Installed Capacity		59,172	59,939	59,736
Percentage of Total **		100%	100%	100%

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

** May not total due to rounding.

Source: Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry; Florida Public Service Commission, Review of the Ten-Year Site Plans, Nov. 2019.

Table 13

Installed Winter and Summer Net Capacity by Utility *
(Megawatts)
2018-2019

Utility	Winter Net Capacity		Summer Net Capacity	
	2018	2019	2018	2019
Investor-Owned				
Duke Energy Florida, LLC	10,865	10,894	9,792	9,902
Florida Power & Light Company	25,008	26,908	23,971	26,569
Gulf Power Company	2,304	2,345	2,265	2,348
Tampa Electric Company	5,071	5,196	4,764	5,039
Generating Municipal				
Florida Municipal Power Agency **	1,324	1,333	1,284	1,292
Gainesville Regional Utilities	661	661	631	631
Homestead	32	32	32	32
JEA	3,104	3,143	2,771	2,854
Keys Energy Services	37	37	37	37
Kissimmee Utility Authority	254	255	242	243
Lake Worth Utilities	80	80	77	77
Lakeland Electric	890	890	844	844
New Smyrna Beach	48	24	44	22
Orlando Utilities Commission ***	1,531	1,518	1,493	1,479
Reedy Creek Improvement District	54	54	54	54
Tallahassee	702	776	632	706
Generating Rural Electric Cooperative				
PowerSouth Energy **	2,060	2,062	1,861	1,866
Seminole Electric **	2,215	2,157	2,041	2,056
USCE-Mobile District **	44	44	44	44
Total Utility ^	**56,284**	**58,409**	**52,879**	**56,095**
Total Non-Utility ^^	3,737	1,739	3,480	1,663
Total State of Florida ^	**60,021**	**60,148**	**56,359**	**57,758**

* 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 2020), FRCC Form 1.0, pp. 7 and S-7.

Table 14

Summer Net Capacity by Generation by Utility *
(Megawatts)
December 31, 2019

Utility	Hydro-Electric	Conventional Steam	Nuclear Steam	Combustion Turbine	Internal Combustion	Combined Cycle	Solar photovoltaic	Total
Investor-Owned								
Duke Energy Florida, LLC	0	2,498	0	2,019	0	5,266	119	9,902
Florida Power & Light Company	0	2,252	3,479	2,184	0	18,038	616	26,569
Gulf Power Company	0	1,641	0	44	3	660	0	2,348
Tampa Electric Company	0	1,602	0	280	0	2,911	246	5,039
Generating Municipal								
Florida Municipal Power Agency **	0	335	0	144	0	814	0	1,292
Gainesville Regional Utilities	0	406	0	110	7	108	0	631
Homestead	0	0	0	0	32	0	0	32
JEA	0	198	0	1,910	0	746	0	2,854
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	1,169	0	197	0	113	0	1,479
Reedy Creek Improvement District	0	0	0	0	0	54	0	54
Tallahassee	0	0	0	92	92	522	0	706
Generating Rural Electric Cooperative								
PowerSouth Energy **	7	639	0	574	0	641	0	1,861
Seminole Electric **	0	1,260	0	270	0	526	0	2,056
USCE-Mobile District **	44	0	0	0	0	0	0	44
Total Utility ^	**51**	**12,363**	**3,479**	**7,992**	**207**	**31,038**	**981**	**56,112**
Total Non-Utility ^^								1,663
Total State of Florida ^	**51**	**12,363**	**3,479**	**7,992**	**207**	**31,038**	**981**	**57,775**

* 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 Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2020), FRCC Form 1.0, pp. 7-20, S-8, and S-9.

Table 15

Nuclear Generating Units
December 31, 2019

Utility	Location	Commercial In-Service Month/Year	Maximum Nameplate Rating kW	Net Capacity	
				Summer MW	Winter MW
Florida Power & Light Company					
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.

Sources: Florida Public Service Commission, FP&L Ten-Year Site Plan (April 2020), Schedule 1, p. 26; Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2020), FRCC Form 1.0, p. 13.

Annual Peak Demand
(Megawatts)
2015-2019

Utility	2015	2016	2017	2018	2019
Investor-Owned					
Duke Energy Florida, LLC	9,475	9,728	9,296	10,323	9,973
Florida Power & Light Company	22,959	23,858	23,373	23,217	24,241
Florida Public Utilities Company	161	147	144	163	140
Gulf Power Company	2,495	2,508	2,434	2,809	2,472
Tampa Electric Company	4,013	4,131	4,115	4,044	4,298
Generating Municipal					
Florida Municipal Power Agency **	NR	1296	1263	1,281	1,349
Gainesville Regional Utilities	421	428	418	410	429
Homestead	102	105	110	106	115
JEA	2,863	2,763	2,727	3,080	2,644
Keys Energy Services	148	148	149	146	145
Kissimmee Utility Authority	335	354	353	356	374
Lake Worth Utilities	93	96	95	95	97
Lakeland Electric	656	646	643	704	667
New Smyrna Beach	101	101	97	108	105
Orlando Utilities Commission ***	1,171	1,189	1,378	1,341	1,431
Reedy Creek Improvement District	189	195	191	188	198
Tallahassee	600	597	598	621	616
Non-Generating Municipal					
Alachua	27	28	28	29	29
Bartow	65	63	63	68	60
Beaches Energy Services	195	178	171	211	173
Blountstown	9	8	9	7,296	7
Bushnell	7	6	6	7	8
Chattahoochee	8	8	7	7	5,530
Clewiston	22	22	22	22	22
Fort Meade	11	9	9	12	10
Fort Pierce Utilities Authority	107	112	112	112	113
Green Cove Springs	28	26	25	31	25
Havana	6	6	6	7	6

* Not Reported.

** Wholesale-only generating utility.

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

Continued

Annual Peak Demand
(Megawatts)
2015-2019

Utility	2015	2016	2017	2018	2019
Non-Generating Municipal (Continued)					
Leesburg	106	112	116	116	111
Moore Haven	36	4	4	4	4
Mount Dora	22	22	22	23	23
Newberry	9	8	8	10	9
Ocala Electric Utility	287	305	291	296	314
Quincy	28	26	13	13	12
Starke	15	16	15	17	15
Wauchula	13	14	14	14	14
Williston	8	9	8	10	10
Winter Park	95	79	83	77	81
Generating & Non-Generating Rural Electric Cooperative					
Central Florida Electric	136	129	123	147	124
Choctawhatchee Electric	225	192	205	264	213
Clay Electric	839	788	735	921	778
Escambia River Electric	55	46	51	64	48
Florida Keys Electric	161	149	154	150	153
Glades Electric	78	68	67	73	68
Gulf Coast Electric	100	90	90	111	83
Lee County Electric	885	868	877	885	924
Okefenoke Rural Electric *	31	28	27	33	28
Peace River Electric	154	161	164	177	187
PowerSouth Energy **	510	440	470	578	450
Seminole Electric **	3,403	3,318	4,010	4,024	3,477
Sumter Electric	805	788	756	889	837
Suwannee Valley Electric	120	107	120	123	114
Talquin Electric	279	253	268	299	238
Tri-County Electric	71	70	67	77	67
West Florida Electric	139	123	128	149	116
Withlacoochee River Electric	1,074	1,019	902	1,191	933

* 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)
2020-2029

Year	Summer Peak	Year	Winter Peak
2020	51,350	2020-2021	41,853
2021	51,240	2021-2022	47,562
2022	51,644	2022-2023	47,856
2023	51,908	2023-2024	48,327
2024	52,422	2024-2025	48,780
2025	52,892	2025-2026	49,169
2026	53,459	2025-2027	49,815
2027	54,059	2027-2028	50,256
2028	54,680	2029-2030	50,859
2029	55,266	2030-2031	51,429

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, 2019

Utility	Net Energy for Load (Gigawatt-Hours)	Peak Load (Megawatts)	Load Factor (Percentage) *
Investor-Owned			
Duke Energy Florida, LLC	44,957	9,973	51.5%
Florida Power & Light Company	125,168	24,241	58.9
Gulf Power Company	11,995	2,472	55.4
Tampa Electric Company	20,770	4,298	55.2
Municipal			
Florida Municipal Power Agency **	6,290	1,349	53.2
Gainesville Regional Utilities	2,000	429	53.2
Homestead	641	115	63.6
JEA	12,797	2,644	55.3
Keys Energy Services	787	145	61.9
Kissimmee Utility Authority	1,678	374	51.2
Lake Worth Utilities	472	97	55.5
Lakeland Electric	3,190	667	54.6
New Smyrna Beach	451	105	49.1
Orlando Utilities Commission ***	8,008	1,431	63.9
Reedy Creek Improvement District	1,233	198	71.1
Tallahassee	2,852	616	52.9
Rural Electric Cooperative			
PowerSouth Energy **	2,136	450	54.2
Seminole Electric **	15,095	3,477	49.6

* 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)
2016-2019

Renewable Type *	2016	2017	2018	2019
Biomass	582	583	592	469
Hydro	63	63	51	51
Landfill Gas	87	83	75	116
Municipal Solid Waste	545	446	484	374
Solar	263	538	804	1,743
Waste Heat	310	306	306	310
Wind	10	188	272	272
Total	1,860	2,207	2,584	3,335

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

Source: Florida Public Service Commission, 2018 Statistics of the Florida Electric Utility Industry; Florida Public Service Commission, Review of the Ten-Year Site Plans, Nov. 2018.

Table 20

Customer-Owned Photovoltaic Facilities *
2016-2019

	2016	2017	2018	2019
Number of Solar Energy Systems				
Duke Energy Florida, LLC	4,445	7,470	12,549	21,275
Florida Power & Light Company	5,411	7,518	11,366	16,957
Florida Public Utilities Company	87	109	131	156
Gulf Power Company	503	884	1,167	2,223
Tampa Electric Company	1,097	1,843	3,089	5,172
Municipal	2,375	3,410	5,065	7,251
Rural Electric Cooperative	2,047	2,895	4,464	6,442
Total	15,965	24,129	37,831	59,476
Gross Power Rating (MW)(AC)				
Duke Energy Florida, LLC	37	58	97	174,620
Florida Power & Light Company	49	68	99	149,880
Florida Public Utilities Company	0.5	0.6	0.8	3,098.0
Gulf Power Company	3	5	8	16,011
Tampa Electric Company	12	19	32	54,197
Municipal	19	28	43	62,839
Rural Electric Cooperative	13	18	30	46,454
Total **	133.5	196.6	310.4	507,099.0
Energy Delivered to the Grid (MWh)				
Duke Energy Florida, LLC	20,611	29,171	50,957	92,036,871
Florida Power & Light Company	24,347	30,651	46,992	73,329,855
Florida Public Utilities Company	290	345	496	1,086,339
Gulf Power Company	5,507	8,431	12,719	6,820,749
Tampa Electric Company	5,983	8,239	23,552	23,982,684
Municipal	8,436	14,553	22,088	33,528,881
Rural Electric Cooperative	5,142	6,879	9,985	14,926,889
Total	70,316	98,269	166,789	245,712,268

* 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.

Investor-Owned Solar Photovoltaic Facilities *
December 31, 2019

Utility	Name of Plant	In-Service Date	Nameplate Capacity MW **	Total Energy MWh
Duke Energy Florida, LLC				
	Hamilton	Dec-18	74.9	180,635.0
	Lake Placid	Dec-19	45.0	4,170.0
	Osceola Solar	May-16	3.8	6,592
	Perry Solar	Aug-16	5.1	8,704
	Suwannee Solar	Nov-17	8.8	18,748
	Trenton	Dec-19	74.9	3,275
Florida Power & Light Company				
	Babcock Ranch Solar Energy Center	Dec-16	74.5	161,060
	Barefoot Bay	March-18	74.5	162,477
	Blue Cypress	March-18	74.5	152,835
	Citrus Solar Energy Center	Dec-16	74.5	163,838
	Coral Farms	Dec-17	74.5	154,754
	DeSoto Next Generation Solar Energy Center	Oct-09	25.0	45,754
	Hammock	March-18	74.5	157,053
	Horizon	Dec-17	74.5	156,045
	Indian River	Dec-17	74.5	157,633
	Interstate Solar	Jan-19	74.5	135,396
	Loggerhead	March-18	74.5	155,527
	Manatee Solar Energy Center	Dec-16	74.5	164,300
	Martin Next Generation	Dec-10	75.0	50,125*
	Miami Dade Solar	Mar-18	74.5	138,300
	Pioneer Trail	Mar-18	74.5	126,094
	Space Coast Next Generation Solar Energy Center	Apr-10	10.0	16,554
	Sunshine Gateway	Mar-18	74.5	138,619
	Wildflower	Dec-17	74.5	162,578

* Includes purchase power agreements and demonstration sites.

**Only includes facilities over 2 MW.

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.

Investor-Owned Solar Photovoltaic Facilities *
December 31, 2019

Utility	Name of Plant	In-Service Date	Nameplate Capacity MW **	Total Energy MWh
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	137,401
	Big Bend	Feb-17	19.4	39,921
	Bonnie Mine	Jan-19	37.5	67,686
	Grange Hall	Jan-19	61.1	105,555
	Lake Hancock	Apr-19	49.5	62,305
	Lithia	Jan-19	74.4	124,071
	Payne Creek	Sept-18	70.3	125,417
	Peace Creek	Mar-19	55.4	88,786
Total			**2,002**	**3,549,096**

* Includes purchase power agreements and demonstration sites.

**Only includes facilities over 2 MW.

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 *
2016-2019

	2016	2017	2018	2019
Summer Peak Reduction (MW)				
Duke Energy Florida, LLC	176	82	86	118
Florida Power & Light Company	52	62	82	59
Florida Public Utilities Company	1.0	0.4	0.4	0.2
Gulf Power Company	5	5	3	3
JEA	7	4	5	5
Orlando Utilities Commission **	3	6	5	4
Tampa Electric Company	10	15	21	35
Total ***	254.0	174.4	201.6	224.5
Winter Peak Reduction (MW)				
Duke Energy Florida, LLC	193	81	88	116
Florida Power & Light Company	33	40	53	39
Florida Public Utilities Company	0.5	0.2	0.2	0.1
Gulf Power Company	5	4	2	2
JEA	5	2	4	4
Orlando Utilities Commission **	2	5	5	4
Tampa Electric Company	11	16	21	31
Total ***	249.5	148.2	173.0	194.9
Energy Reduction (GWh)				
Duke Energy Florida, LLC	151	82	82	81
Florida Power & Light Company	63	71	86	54
Florida Public Utilities Company	2.0	0.8	0.9	0.4
Gulf Power Company	7	7	5	5
JEA	16	11	38	40
Orlando Utilities Commission **	13	32	35	15
Tampa Electric Company	31	45	51	91
Total ***	283.0	248.8	298.0	287.7

* 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
2010-2019

Year	Coal (Thousands of Short Tons)	Oil * (Thousands of Barrels)	Natural Gas (Billions of Cubic Feet)	Nuclear (U-235) ** (Trillion BTUs)
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
2019	14,831	6,313	1,280	313

* Residual and distillate.

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

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 9.0, p. S-16.

Table 24

Projected Fuel Requirements
2020-2029

Year	Coal (Thousands of Short Tons)	Oil * (Thousands of Barrels)	Natural Gas (Billions of Cubic Feet)	Nuclear (U-235) ** (Trillion BTUs)
2020	10,566	130	1,225	309
2021	10,788	156	1,200	310
2022	8,472	139	1,203	318
2023	6,849	76	1,229	310
2024	6,817	183	1,239	313
2025	7,229	156	1,224	318
2026	7,397	169	1,217	313
2027	7,612	218	1,215	312
2028	7,710	294	1,206	319
2029	7,897	235	1,198	313

* Residual and distillate.

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

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)
2015-2019

Utility	2015	2016	2017	2018	2019
Investor-Owned					
Duke Energy Florida, LLC	38,553,183	38,773,961	38,024,013	39,144,651	39,187,343
Florida Power & Light Company	109,820,398	109,662,646	108,870,963	110,053,141	111,929,427
Florida Public Utilities Company	638,345	645,696	627,135	634,763	652,604
Gulf Power Company	11,085,872	11,081,505	10,808,617	11,132,383	11,078,869
Tampa Electric Company	19,006,474	19,234,525	19,186,517	19,631,465	19,783,567
Municipal					
Alachua	121,530	130,432	127,049	131,006	130,170
Bartow	273,041	277,393	269,667	281,732	287,066
Beaches Energy Services	713,708	722,486	690,398	707,282	697,365
Blountstown	35,439	35,345	34,112	33,586	33,439
Bushnell	23,252	23,892	23,618	24,494	29,051
Chattahoochee	37,890	37,277	36,711	37,053	37,708
Clewiston	100,978	101,094	99,699	99,419	99,262
Fort Meade	40,512	40,878	39,380	40,825	41,967
Fort Pierce Utilities Authority	550,871	551,618	555,768	558,260	559,459
Gainesville Regional Utilities	1,765,193	1,796,293	1,773,622	1,829,165	1,830,595
Green Cove Springs	111,677	106,946	103,807	108,398	112,300
Havana	24,079	23,483	22,820	23,919	24,546
Homestead	535,095	526,881	546,703	548,197	596,814
JEA	11,090,657	12,215,148	12,067,476	12,325,781	12,322,254
Keys Energy Services	751,178	742,272	714,631	712,910	741,931
Kissimmee Utility Authority	1,472,391	1,521,688	1,532,011	1,583,340	1,620,665
Lake Worth Utilities	430,307	434,758	439,747	433,186	435,077
Lakeland Electric	3,034,075	3,029,959	3,017,655	3,118,406	3,116,587
Leesburg	470,555	473,329	474,093	492,124	494,267
Moore Haven	16,178	15,135	15,356	15,356	16,145
Mount Dora	89,184	89,184	87,050	89,695	90,735
New Smyrna Beach	396,602	414,356	406,222	420,938	425,102
Newberry	33,986	34,480	35,348	36,712	37,663
Ocala Electric Utility	1,256,904	1,296,691	1,249,383	1,296,827	1,307,747
Orlando Utilities Commission *	6,535,984	6,598,932	6,568,198	6,798,822	6,825,561
Quincy	123,847	120,177	115,981	119,778	183,531
Reedy Creek Improvement District	1,149,020	1,154,677	1,156,067	1,136,189	1,175,186
Starke	67,841	68,775	66,627	68,416	65,648
Tallahassee	2,654,983	2,639,582	2,617,331	2,674,812	2,716,250
Wauchula	63,349	59,293	58,990	61,589	61,406
Williston	31,935	33,229	32,548	33,237	32,983
Winter Park	433,409	437,232	425,029	412,650	425,022
Rural Electric Cooperative					
Central Florida Electric	471,129	491,417	482,551	500,976	502,468
Choctawhatchee Electric	818,143	835,460	830,572	895,036	906,973
Clay Electric	3,152,976	3,279,354	3,226,167	3,316,392	3,349,589
Escambia River Electric	175,021	174,820	173,238	184,930	190,598
Florida Keys Electric	720,650	709,568	694,334	682,999	723,276
Glades Electric	315,608	315,891	316,748	322,918	329,414
Gulf Coast Electric	339,769	341,231	328,655	334,455	345,954
Lee County Electric	3,790,662	3,800,338	3,809,847	3,965,037	4,104,302
Okefenoke Rural Electric **	157,160	161,794	158,872	167,127	169,436
Peace River Electric	679,718	708,465	736,663	788,506	850,477
Sumter Electric	3,149,363	3,238,522	3,232,485	3,415,867	3,467,634
Suwannee Valley Electric	505,520	533,673	519,391	551,501	534,811
Talquin Electric	955,069	953,400	937,675	2,045,962	1,014,511
Tri-County Electric	300,179	310,193	309,798	314,885	318,153
West Florida Electric	498,390	495,708	482,902	495,256	510,708
Withlacoochee River Electric	3,811,169	3,914,371	3,835,764	4,024,257	4,052,450
Respondent Total ^ ^^	**234,118,658**	**236,151,543**	**233,719,918**	**238,896,185**	**240,576,065**
FRCC State Total					**232,533,000**

* 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 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 26

Retail Sales by Class of Service
(Megawatt-Hours)
2019

Utility	Residential	Commercial	Industrial	Other *	Total
Investor-Owned					
Duke Energy Florida, LLC	20,775,084	12,197,914	2,963,373	3,250,972	39,187,343
Florida Power & Light Company	60,324,800	48,077,699	2,994,058	532,870	111,929,427
Florida Public Utilities Company	306,446	304,792	33,434	7,932	652,604
Gulf Power Company	5,519,757	3,775,153	1,756,154	27,805	11,078,869
Tampa Electric Company	9,584,236	6,239,500	2,020,918	1,938,913	19,783,567
Municipal					
Alachua	44,764	85,406	0	0	130,170
Bartow	145,533	44,748	86,375	10,410	287,066
Beaches Energy Services	438,840	258,525	0	0	697,365
Blountstown	11,691	19,666	0	2,081	33,439
Bushnell	9,350	8,747	10,954	0	29,051
Chattahoochee	11,302	3,378	586	22,442	37,708
Clewiston	51,458	46,099	1,330	375	99,262
Fort Meade	28,987	12,886	94	0	41,967
Fort Pierce Utilities Authority	242,352	313,087	0	4,020	559,459
Gainesville Regional Utilities	837,470	823,151	169,974	0	1,830,595
Green Cove Springs	53,464	58,836	0	0	112,300
Havana	14,135	10,411	0	0	24,546
Homestead	350,732	44,682	170,964	30,437	596,814
JEA	5,478,869	4,060,299	2,480,897	302,189	12,322,254
Keys Energy Services	378,164	360,965	0	2,803	741,931
Kissimmee Utility Authority	915,297	533,333	152,975	19,059	1,620,665
Lake Worth Utilities	257,339	96,978	0	80,760	435,077
Lakeland Electric	1,539,686	805,910	666,727	104,264	3,116,587
Leesburg	254,662	50,912	0	188,694	494,267
Moore Haven	9,220	6,633	0	291	16,145
Mount Dora	53,047	32,069	0	5,619	90,735
New Smyrna Beach	285,657	55,232	84,212	0	425,102
Newberry	21,009	3,163	7,062	6,429	37,663
Ocala Electric Utility	537,008	170,504	562,806	37,429	1,307,747
Orlando Utilities Commission **	2,600,463	422,825	3,454,376	347,897	6,825,561
Quincy	48,946	66,590	43,390	24,605	183,531
Reedy Creek Improvement District	113	1,163,986	0	11,087	1,175,186
Starke	23,621	42,027	0	0	65,648
Tallahassee	1,151,709	1,533,024	0	31,517	2,716,250
Wauchula	28,553	31,265	0	1,588	61,406
Williston	13,626	13,678	291	5,388	32,983
Winter Park	188,276	236,746	0	0	425,022
Rural Electric Cooperative					
Central Florida Electric	363,220	85,522	34,578	19,148	502,468
Choctawhatchee Electric	672,068	218,044	16,861	0	906,973
Clay Electric	2,262,772	658,489	428,292	35	3,349,589
Escambia River Electric	151,325	33,235	5,257	781	190,598
Florida Keys Electric	421,258	98,776	163,185	40,058	723,276
Glades Electric	162,254	37,433	129,727	0	329,414
Gulf Coast Electric	274,962	29,840	28,084	13,067	345,954
Lee County Electric	2,875,266	1,215,577	0	13,459	4,104,302
Okefenoke Rural Electric ^	154,581	8,681	3,374	2,800	169,436
Peace River Electric	545,985	242,703	49,213	12,575	850,477
Sumter Electric	2,389,141	799,724	276,814	1,955	3,467,634
Suwannee Valley Electric	304,532	104,313	125,966	0	534,811
Talquin Electric	692,139	182,324	133,473	6,575	1,014,511
Tri-County Electric	175,855	58,342	75,149	8,807	318,153
West Florida Electric	323,693	38,416	116,245	32,352	510,708
Withlacoochee River Electric	2,850,742	1,008,925	170,942	21,842	4,052,450
Respondent Total ^^ ^^^	**127,155,459**	**86,831,165**	**19,418,110**	**7,171,331**	**240,576,065**
FRCC State Total	**121,825,000**	**86,777,000**	**17,248,000**	**6,683,000**	**232,533,000**

* 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 27

Sales for Resale for Selected Utilities
(Megawatt-Hours)
2019

Utility	Sales for Resale	Total Retail Sales *	Total Sales	Resales as Percentage of Total
Investor-Owned				
Duke Energy Florida, LLC	3,069,994	39,187,343	42,257,337	7.26%
Florida Power & Light Company	10,470,191	111,929,428	122,399,619	8.55
Gulf Power Company	3,823,063	11,120,102	14,943,165	25.58
Tampa Electric Company	155,201	19,783,567	19,938,768	0.78
Municipal				
Gainesville Regional Utilities	133,907	1,830,595	1,964,502	6.82%
JEA	57,600	12,322,254	12,379,854	0.47
Orlando Utilities Commission **	944,832	6,825,561	7,770,392	12.16
Reedy Creek Improvement District	22,215	1,175,186	1,197,401	1.86
Tallahassee	162,284	2,716,250	2,878,534	5.64
Rural Electric Cooperative				
PowerSouth Energy ***	2,063,405	0	2,063,405	100%
Seminole Electric ***	15,025,634	0	15,025,634	100
Talquin Electric	8,068	1,014,511	1,022,579	0.79

* 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.

Source: Florida Public Service Commission, 2018 Annual Report, FERC Form No. 1, pp. 301 and 311; Responses to staff data request.

Table 28

Retail Sales by Class of Service
(Gigawatt-Hours)
2015-2019

Year	Residential	Commercial	Industrial	Other *	Total Retail Sales
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
2019	121,825	86,777	17,248	6,683	232,533

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

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.

Table 29

Retail Sales by Percentage of Class of Service *
2010-2019

Year	Residential	Commercial	Industrial	Other **
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
2019	52.85	36.09	8.07	2.98

* 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; Table 26.

Revenues

Table 30

Revenues by Class of Service *
(Thousands)
2010-2019

Year	Residential	Commercial	Industrial	Other **	Total ***
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
2019	14,856,666	8,010,233	1,514,729	722,025	25,103,654

* 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..

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

Table 31

Revenues by Percentage of Class of Service *
2010-2019

Year	Residential	Commercial	Industrial	Other **
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
2019	59.2	31.9	6.0	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

2015-2019

Utility	2015	2016	2017	2018	2019	Compound Growth Rate
Investor-Owned						
Duke Energy Florida, LLC	1,798,990	1,760,016	1,885,567	1,901,131	1,843,639	0.61%
Florida Power & Light Company	4,806,234	4,869,040	4,901,871	4,961,313	5,061,509	1.30
Florida Public Utilities Company	31,506	31,787	31,992	31,009	31,829	0.26
Gulf Power Company	449,471	455,415	461,806	462,983	468,283	1.03
Tampa Electric Company	718,712	730,503	744,691	756,254	771,960	1.80
Total Investor-Owned	7,804,913	7,846,761	8,025,927	8,112,690	8,177,220	1.17
Municipal						
Alachua	4,482	4,522	4,506	4,584	4,610	0.71%
Bartow	12,036	12,195	12,310	12,397	12,470	0.89
Beaches Energy Services	34,903	34,601	34,609	34,315	34,839	-0.05
Blountstown	1,312	1,324	1,330	1,327	1,309	-0.06
Bushnell	1,031	1,040	1,057	1,055	1,186	3.56
Chattahoochee	1,157	1,161	1,172	1,156	1,117	-0.88
Clewiston	4,289	4,315	4,357	4,343	4,405	0.67
Fort Meade	2,803	2,660	2,628	2,635	2,657	-1.33
Fort Pierce Utilities Authority	28,251	28,306	28,257	28,331	28,582	0.29
Gainesville Regional Utilities	94,628	95,161	97,245	97,681	98,324	0.96
Green Cove Springs	3,921	4,058	4,175	4,196	4,290	2.27
Havana	1,427	1,448	1,458	1,457	1,462	0.61
Homestead	23,211	24,031	24,402	30,718	25,511	2.39
JEA	449,263	456,894	464,118	472,061	481,750	1.76
Keys Energy Services	31,167	30,002	29,859	29,728	30,610	-0.45
Kissimmee Utility Authority	68,396	70,400	72,225	74,752	77,574	3.20
Lake Worth Utilities	26,558	26,236	27,105	27,244	27,361	0.75
Lakeland Electric	125,666	127,152	129,113	130,657	132,211	1.28
Leesburg	23,793	24,597	24,400	24,420	25,740	1.99
Moore Haven	863	1,059	1,137	1,137	1,164	7.77
Mount Dora	5,798	5,828	5,851	5,853	5,886	0.38
New Smyrna Beach	26,740	27,561	27,737	28,030	28,795	1.87
Newberry	1,723	1,774	1,820	1,893	1,980	3.54
Ocala Electric Utility	51,896	50,187	50,569	53,485	54,183	1.08
Orlando Utilities Commission *	290,915	300,179	312,973	322,258	330,564	3.25
Quincy	4,767	4,783	4,743	4,786	4,710	-0.30
Reedy Creek Improvement District	1,387	1,463	1,447	1,524	1,539	2.63
Starke	2,759	2,779	2,801	2,794	2,787	0.25
Tallahassee	117,827	119,005	120,050	121,677	123,753	1.23
Wauchula	2,775	2,798	2,802	2,806	2,822	0.42
Williston	1,552	1,707	1,718	1,744	1,737	2.86
Winter Park	14,392	14,947	15,061	15,565	15,565	1.98
Total Municipal	1,496,226	1,519,066	1,548,600	1,582,532	1,571,493	1.23
Rural Electric Cooperative						
Central Florida Electric	32,943	33,176	33,434	33,750	33,942	0.75%
Choctawhatchee Electric	47,291	48,675	50,181	51,790	53,439	3.10
Clay Electric	170,429	172,861	174,587	176,614	178,675	1.19
Escambia River Electric	10,467	10,700	11,012	11,197	11,380	2.11
Florida Keys Electric	32,415	32,723	32,224	32,678	32,918	0.39
Glades Electric	16,373	16,368	16,370	16,344	16,540	0.25
Gulf Coast Electric	20,274	20,565	20,780	20,648	20,552	0.34
Lee County Electric	208,626	211,685	214,668	217,363	221,564	1.52
Okefenoke Rural Electric **	10,999	10,189	10,528	10,586	10,746	-0.58
Peace River Electric	38,674	40,296	41,729	43,578	48,884	6.03
Sumter Electric	193,110	194,964	198,656	205,644	210,815	2.22
Suwannee Valley Electric	25,415	25,648	25,932	26,395	26,876	1.41
Talquin Electric	53,213	53,593	53,832	54,218	54,378	0.54
Tri-County Electric	17,830	17,932	18,212	18,391	18,659	1.14
West Florida Electric	28,202	28,347	28,487	28,632	28,122	-0.07
Withlacoochee River Electric	208,761	211,243	214,244	217,998	222,294	1.58
Total Rural Electric Cooperative	1,115,022	1,128,965	1,144,876	1,165,826	1,189,784	1.64
Respondent Total ^ ^^	10,416,161	10,494,792	10,719,403	10,861,048	10,938,497	1.23
FRCC State Total	9,764,790	9,901,223	10,044,518	10,134,775	10,330,981	1.42

* 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 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, 2019

Utility	Residential	Commercial	Industrial	Other *	Total
Investor-Owned					
Duke Energy Florida, LLC	1,636,473	178,440	2,021	26,705	1,843,639
Florida Power & Light Company	4,479,356	565,622	11,799	4,732	5,061,509
Florida Public Utilities Company	24,573	4,286	2	2,968	31,829
Gulf Power Company	410,368	57,042	248	625	468,283
Tampa Electric Company	685,122	76,038	1,516	9,284	771,960
Total Investor-Owned	7,235,892	881,428	15,586	44,314	8,177,220
Municipal					
Alachua	3,889	721	0	0	4,610
Bartow	10,683	1,337	329	121	12,470
Beaches Energy Services	30,171	4,668	0	0	34,839
Blountstown	973	293	0	43	1,309
Bushnell	842	290	54	0	1,186
Chattahoochee	939	111	1	66	1,117
Clewiston	3,493	617	1	294	4,405
Fort Meade	2,362	294	1	0	2,657
Fort Pierce Utilities Authority	23,445	5,135	0	2	28,582
Gainesville Regional Utilities	87,050	11,264	10	0	98,324
Green Cove Springs	3,518	772	0	0	4,290
Havana	1,148	314	0	0	1,462
Homestead	22,738	2,069	578	126	25,511
JEA	424,263	53,362	197	3,928	481,750
Keys Energy Services	26,058	4,474	0	78	30,610
Kissimmee Utility Authority	67,366	10,158	50	0	77,574
Lake Worth Utilities	23,610	2,948	0	803	27,361
Lakeland Electric	110,406	12,687	77	9,041	132,211
Leesburg	21,879	3,861	0	0	25,740
Moore Haven	997	132	0	35	1,164
Mount Dora	4,976	818	0	92	5,886
New Smyrna Beach	25,271	3,387	137	0	28,795
Newberry	1,665	176	43	96	1,980
Ocala Electric Utility	42,716	7,749	950	2,768	54,183
Orlando Utilities Commission **	216,113	25,751	5,579	83,121	330,564
Quincy	3,834	689	1	186	4,710
Reedy Creek Improvement District	9	1,441	0	89	1,539
Starke	2,061	726	0	0	2,787
Tallahassee	104,104	15,445	0	4,204	123,753
Wauchula	2,246	506	0	70	2,822
Williston	1,189	402	3	143	1,737
Winter Park	12,857	2,708	0	0	15,565
Total Municipal	1,282,871	175,305	8,011	105,306	1,571,493
Rural Electric Cooperative					
Central Florida Electric	30,328	2,458	659	497	33,942
Choctawhatchee Electric	46,869	6,568	2	0	53,439
Clay Electric	158,337	20,285	32	21	178,675
Escambia River Electric	10,286	1,063	9	22	11,380
Florida Keys Electric	27,165	4,716	397	640	32,918
Glades Electric	12,673	3,402	465	0	16,540
Gulf Coast Electric	19,116	912	13	511	20,552
Lee County Electric	202,252	19,312	0	0	221,564
Okefenoke Rural Electric ^	10,172	497	1	76	10,746
Peace River Electric	40,384	8,413	3	84	48,884
Sumter Electric	191,887	18,880	21	27	210,815
Suwannee Valley Electric	23,543	3,325	8	0	26,876
Talquin Electric	50,452	3,291	1	634	54,378
Tri-County Electric	16,816	1,576	13	254	18,659
West Florida Electric	24,866	2,640	1	615	28,122
Withlacoochee River Electric	199,723	22,095	23	453	222,294
Total Rural Electric Cooperative	1,064,869	119,433	1,648	3,834	1,189,784
Respondent Total ^^ ^^^	9,583,632	1,176,166	25,245	153,454	10,938,497
FRCC State Total	9,176,136	1,132,143	22,702	N/A	10,330,981

* 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
2019-2029

Utility	Year	Residential	Commercial	Industrial	Other	Total Customers	Population
Duke Energy Florida, LLC	2019	1,636,473	178,440	2,021	26,705	1,843,639	4,040,257
	2022	1,696,746	184,489	2,000	27,296	1,910,531	4,199,107
	2029	1,872,584	199,843	2,000	28,622	2,103,049	4,567,233
Florida Power & Light Company	2019	4,479,356	565,622	11,799	4,732	5,061,509	10,119,121
	2022	5,036,516	644,416	13,270	6,419	5,700,621	11,465,461
	2029	5,344,810	679,110	13,570	8,931	6,046,421	12,328,021
Gulf Power Company	2019	410,368	57,042	248	625	468,283	990,370
	2022 *	--	--	--	--	0	--
	2029 *	--	--	--	--	0	--
Tampa Electric Company	2019	685,122	76,038	1,516	9,284	771,960	1,444,870
	2022	723,831	78,168	1,581	9,668	813,248	1,522,909
	2029	801,903	81,181	1,603	10,309	894,996	1,687,616

*Gulf Power Company's projections are included in Florida Power & Light Company's projections.

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

Prices

Typical Electric Bill Comparison - Residential Charges *

December 31, 2019

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	$9.66	$21.25	$38.61	$67.58	$96.52	$125.46	$196.51
Florida Power & Light Company	8.28	17.20	30.58	52.85	75.13	97.40	152.25
Florida Public Utilities Company							
Northwest Division	14.69	26.53	44.27	73.87	103.45	133.03	205.01
Northeast Division	14.69	26.53	44.27	73.87	103.45	133.03	205.01
Gulf Power Company	19.20	30.66	47.82	76.43	105.04	133.64	190.87
Tampa Electric Company	15.12	23.70	36.58	58.07	79.53	100.99	153.94

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

Typical Electric Bill Comparison - Residential Charges *

December 31, 2019

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	17.80	31.46	54.22	76.98	99.73	145.25
Beaches Energy Services	4.50	15.04	30.85	57.21	83.56	109.91	162.62
Blountstown	3.50	15.04	32.34	61.18	90.01	118.85	176.53
Bushnell	10.00	20.97	37.41	64.83	92.24	119.65	174.48
Chattahoochee	6.50	17.27	33.42	60.34	87.25	114.17	168.01
Clewiston	6.50	16.23	30.83	55.15	79.48	103.80	152.45
Fort Meade	12.96	23.32	38.86	64.76	90.66	116.56	168.36
Fort Pierce Utilities Authority	6.01	15.83	30.57	55.12	79.68	106.84	161.16
Gainesville Regional Utilities	15.00	26.30	43.26	71.50	99.76	131.63	200.23
Green Cove Springs	12.00	21.50	35.75	59.50	85.25	111.00	164.50
Havana	6.00	14.51	27.28	48.55	69.82	91.09	133.64
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	28.89	45.24	72.47	99.71	126.94	181.41
Kissimmee Utility Authority	10.17	18.65	31.36	52.55	73.74	94.93	143.64
Lake Worth Utilities	10.53	20.28	34.90	59.26	83.63	107.99	170.38
Lakeland Electric	11.00	19.66	32.63	54.27	75.88	97.52	144.38
Leesburg	12.20	22.77	37.38	62.57	87.75	112.94	174.21
Moore Haven	8.50	17.84	31.85	55.20	78.55	101.90	148.60
Mount Dora	10.17	20.62	36.28	62.41	88.52	114.63	166.87
New Smyrna Beach	5.65	15.57	30.43	55.22	80.00	104.78	154.35
Newberry	8.50	18.85	34.38	60.25	86.13	112.00	163.75
Ocala Electric Utility	15.00	25.15	40.38	65.76	91.13	116.51	167.27
Orlando Utilities Commission **	12.50	22.20	36.76	61.00	85.26	109.50	168.00
Quincy	6.00	18.13	36.33	66.65	96.98	127.30	187.95
Reedy Creek Improvement District	2.85	12.61	27.24	51.64	76.02	100.41	149.20
St. Cloud **	13.00	23.09	38.23	63.44	88.67	113.88	179.92
Starke	6.45	14.67	27.00	47.57	68.13	88.68	140.80
Tallahassee	7.92	18.19	33.59	59.26	84.92	110.59	661.93
Wauchula	12.75	21.94	35.73	58.70	81.68	104.65	150.60
Williston	8.00	16.98	30.47	52.94	75.40	97.87	142.81
Winter Park	16.98	26.10	39.79	62.60	85.40	108.21	169.91

* 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.

Typical Electric Bill Comparison - Residential Charges *
December 31, 2019

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	$180.25
Choctawhatchee Electric	26.00	35.42	49.55	73.09	96.64	120.19	167.28
Clay Electric	23.00	31.99	45.48	67.95	90.43	112.90	167.25
Escambia River Electric	40.00	48.60	61.50	83.00	104.50	126.00	169.00
Florida Keys Electric	30.00	38.28	50.71	71.42	92.13	112.84	170.76
Glades Electric	45.00	54.05	67.63	90.25	112.88	135.50	199.50
Gulf Coast Electric	30.00	41.01	57.53	85.05	112.58	140.10	195.15
Lee County Electric	15.00	23.23	35.58	56.15	79.33	102.50	154.20
Okefenoke Rural Electric **	30.00	39.58	53.95	77.90	101.85	125.80	173.70
Peace River Electric	26.50	36.26	50.89	75.28	99.67	124.06	182.84
Sumter Electric	24.90	34.09	47.88	70.85	93.82	116.80	172.75
Suwannee Valley Electric	25.00	34.46	48.65	72.30	95.95	119.60	177.60
Talquin Electric	32.50	42.13	56.58	80.65	104.72	128.80	187.75
Tri-County Electric	28.00	38.30	53.75	79.50	105.25	131.00	194.50
West Florida Electric	24.95	36.18	53.02	81.10	109.17	137.24	203.16
Withlacoochee River Electric	32.90	41.59	54.63	76.37	98.10	119.83	164.43

* 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-1, A-2, and A-3.

Typical Electric Bill Comparison - Commercial and Industrial Charges *

December 31, 2019

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	$1,590	$4,217	$14,026	$35,042	$70,071
Florida Power & Light Company	1,606	3,923	13,560	31,485	62,253
Florida Public Utilities Company					
Northwest Division	1,843	5,094	16,885	42,946	85,756
Northeast Division	1,843	5,094	16,885	42,946	85,756
Gulf Power Company	1,773	4,697	14,922	35,252	70,241
Tampa Electric Company	1,666	4,059	13,460	31,932	63,834

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

Typical Electric Bill Comparison - Commercial and Industrial Charges *
December 31, 2019

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	1,652	4,228	14,043	34,363	68,705
Beaches Energy Services	2,020	5,391	17,933	44,960	89,904
Blountstown	2,004	5,997	19,975	53,255	106,503
Bushnell	1,605	4,343	14,423	36,523	73,023
Chattahoochee	1,735	5,493	18,251	46,953	93,881
Clewiston	1,690	4,729	15,680	40,555	81,075
Fort Meade	1,706	4,857	16,092	39,702	79,362
Fort Pierce Utilities Authority	1,709	4,541	17,034	40,981	81,923
Gainesville Regional Utilities	2,418	6,294	20,745	50,490	100,630
Green Cove Springs	1,843	4,790	15,850	36,525	72,825
Havana	1,282	3,835	12,770	34,042	68,078
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	2,151	5,474	18,026	44,411	88,727
Kissimmee Utility Authority	1,669	4,229	13,967	34,190	68,324
Lake Worth Utilities	2,325	6,076	20,068	50,098	100,116
Lakeland Electric	1,494	3,770	12,953	30,500	60,524
Leesburg	1,898	4,630	15,790	36,853	76,653
Moore Haven	1,716	4,402	14,594	35,844	71,654
Mount Dora	1,417	3,786	12,566	31,611	63,199
New Smyrna Beach	1,855	4,992	15,686	39,606	79,178
Newberry	1,848	4,743	15,750	36,045	72,045
Ocala Electric Utility	1,644	4,382	14,834	36,629	73,213
Orlando Utilities Commission *	1,652	4,129	13,675	32,578	65,006
Quincy	1,893	4,942	16,332	40,713	75,906
Reedy Creek Improvement District	1,533	4,034	13,402	33,374	66,728
St. Cloud **	1,718	4,294	14,222	33,880	67,604
Starke	1,550	4,632	15,419	41,101	82,193
Tallahassee	1,895	4,508	14,763	34,670	69,266
Wauchula	1,526	4,082	13,525	34,115	68,195
Williston	1,510	4,105	13,405	33,662	67,274
Winter Park	1,464	3,977	13,214	33,524	67,030

* 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.

Typical Electric Bill Comparison - Commercial and Industrial Charges *
December 31, 2019

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	1,500	3,958	12,455	31,503	62,963
Clay Electric	1,567	4,216	13,865	35,390	67,285
Escambia River Electric	1,693	4,340	14,350	35,350	70,650
Florida Keys Electric	1,665	4,844	15,977	42,466	84,858
Glades Electric	2,130	5,490	17,950	44,950	89,750
Gulf Coast Electric	1,864	4,518	14,965	37,423	74,803
Lee County Electric	1,533	4,019	13,333	33,178	66,328
Okefenoke Rural Electric **	1,742	4,141	13,475	32,120	64,100
Peace River Electric	1,779	4,466	14,088	34,098	68,046
Sumter Electric	1,549	4,087	13,470	33,895	67,725
Suwannee Valley Electric	1,712	4,574	15,250	37,450	74,650
Talquin Electric	1,724	4,773	16,103	36,867	73,409
Tri-County Electric	1,995	5,010	16,350	40,350	80,550
West Florida Electric	1,936	4,945	15,924	38,510	76,920
Withlacoochee River Electric	1,441	3,797	12,567	31,454	62,870

* 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) 2010-2019

Year	Florida Population	National Population
2010	18,538	307,007
2011	18,839	309,330
2012	19,058	311,592
2013	19,074	314,917
2014	19,553	316,129
2015	19,893	318,857
2016	20,271	321,419
2017	20,612	323,128
2018	20,984	325,719
2019	21,477	328,240
Compound Annual Growth Rate, 2010-2019	1.65%	0.75%
Compound Annual Growth Rate, 2015-2019	1.93%	0.73%

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) 2021-2041

Year	Florida Population	National Population
2021	21,842	334,998
2031	24,571	357,147
2041	26,549	375,152
Compound Annual Growth Rate, 2020-2040	1.03%	0.60%

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
2010-2019

Year	All Urban Consumers
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
2019	1.6

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
2010-2019

Year	All Items	Energy Total *
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
2019	251.7	206.8

* 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
2010-2019

Year	Finished Goods	Capital Equipment
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
2019	206.8	178.8

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

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

Sales for Resale (Other Electric Utilities):

- Investor-Owned
- Cooperatively-Owned
- Municipally-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.

Basis of Classification	**Class of System**
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.	**I**
20,000,000 to 100,000,000 kilowatt-hours.	**II**
Less than 20,000,000 kilowatt-hours.	**III**
Systems engaged primarily in sales for resale and/or sales to industrial, all other sales being negligible.	**IV**
Systems which obtain entire energy requirements from other systems.	**V**

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 by 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