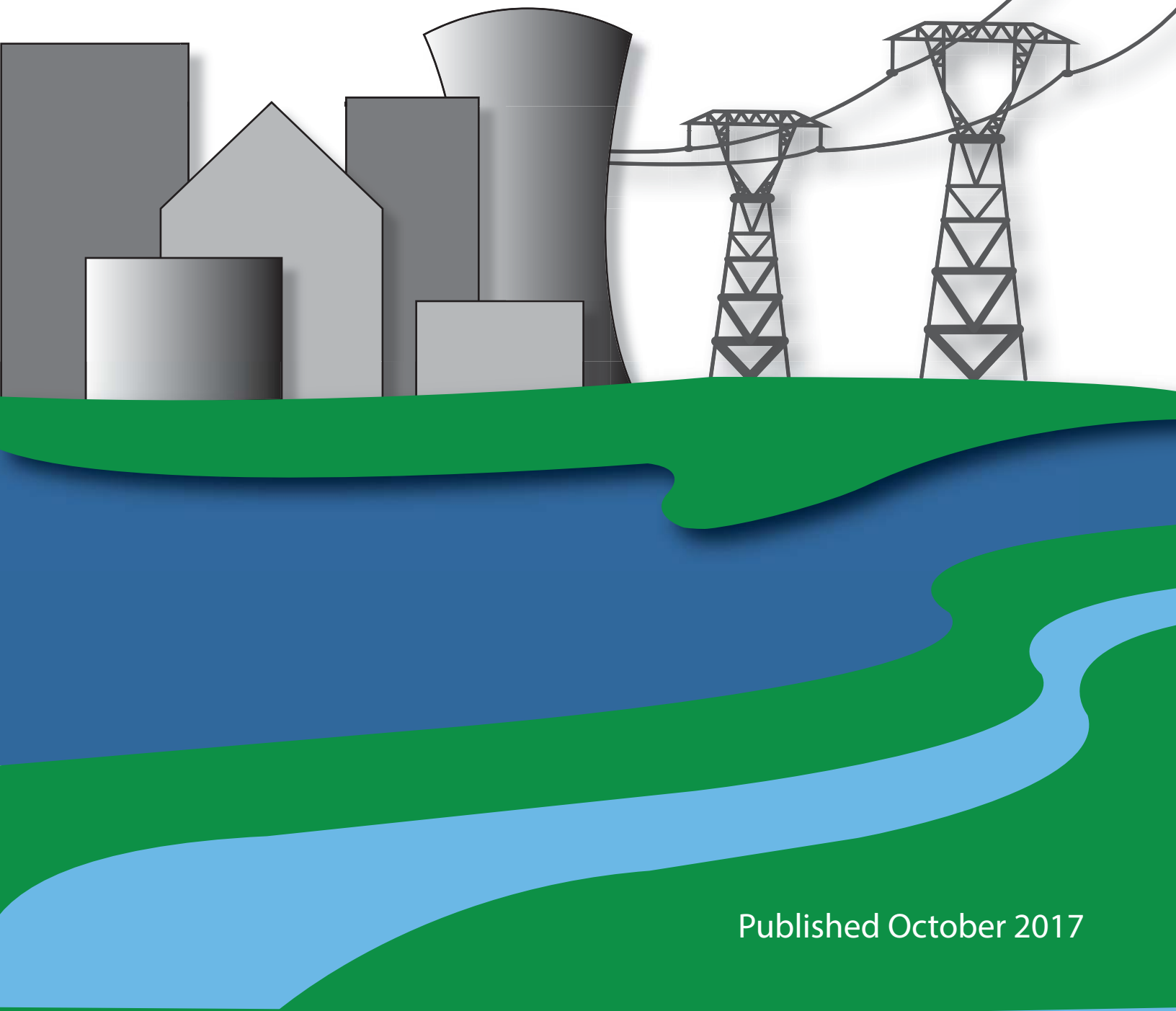


STATISTICS OF THE
**Florida Electric
Utility Industry**



FLORIDA
PUBLIC
SERVICE
COMMISSION



Published October 2017

Statistics of the Florida Electric Utility Industry 2016

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

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Acronyms, Abbreviations, and Formulas

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

| | |
|-------|--|
| AFUDC | Allowance for Funds Used During Construction |
| 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-Hour (KWh) = 1,000 watt-hours

Megawatt-Hour (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

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

Where:

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

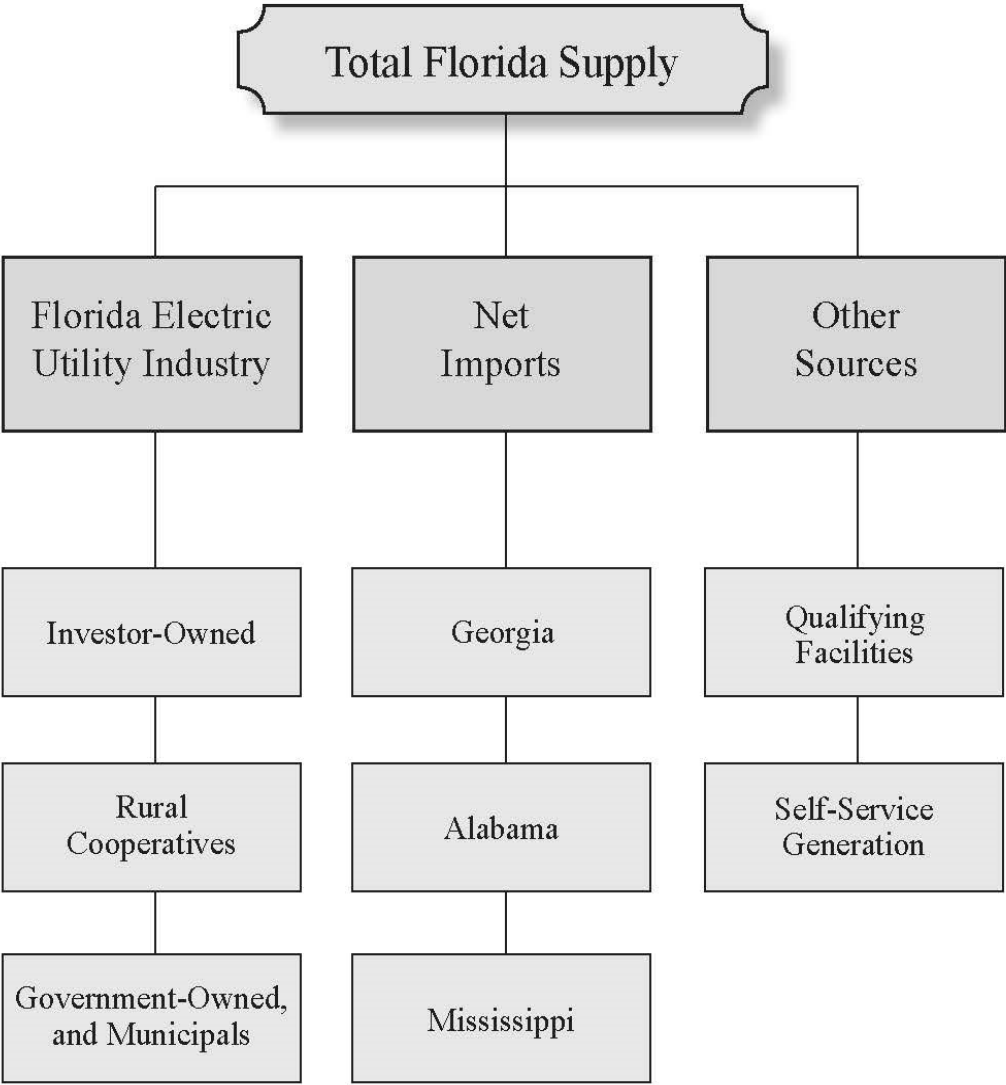
Peak Load = That 60 minute demand interval for which gross generated MWh was highest for the year.

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.

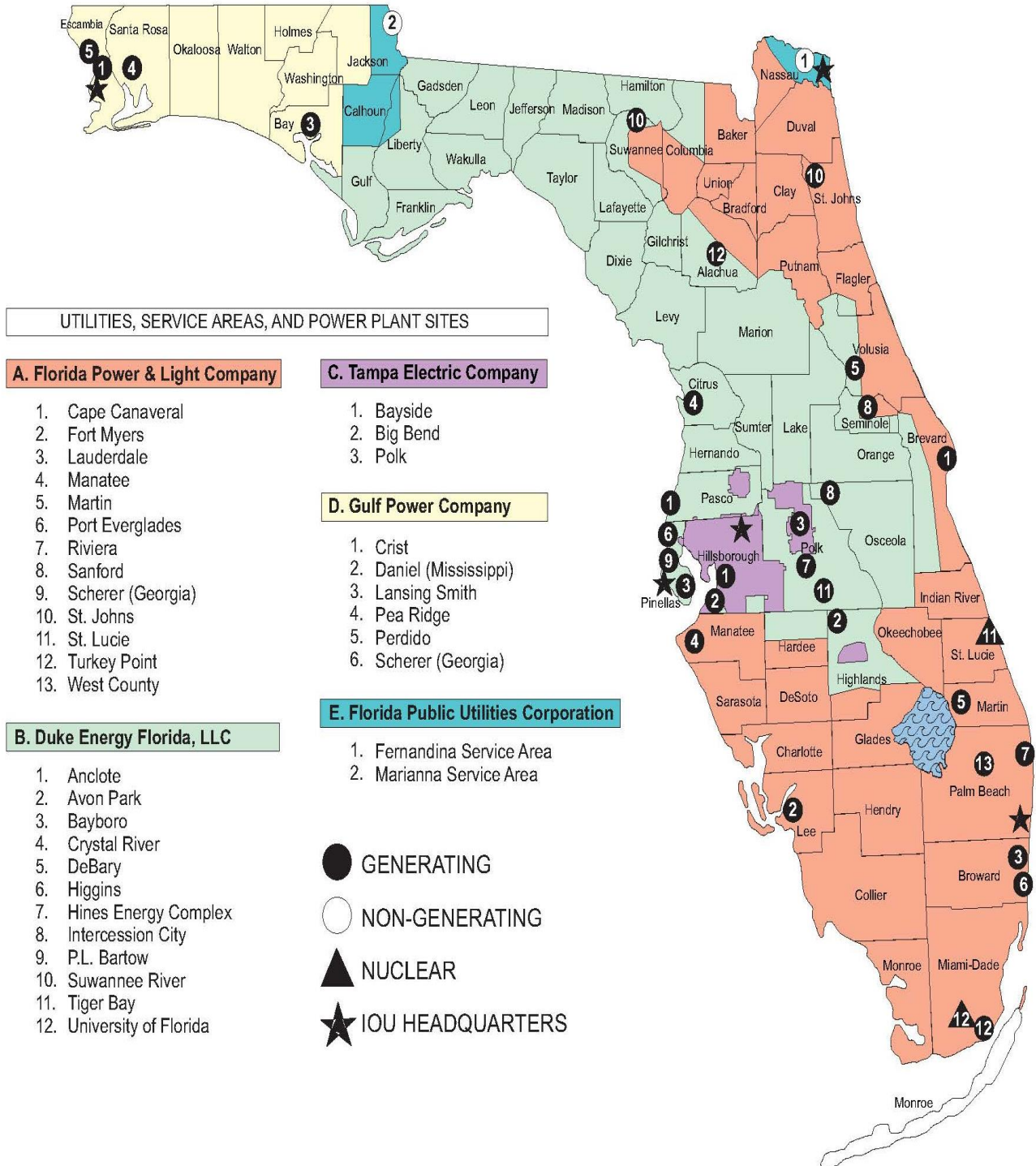
The closer the load factor is to one, the flatter the load curve is or the lower the difference between maximum and minimum levels of use over a one-year period. The closer the load factor is to zero, the greater this difference is, and therefore, the magnitude of peaking across the load curve is greater.

Overview

Florida Sources of Electricity by Type of Ownership



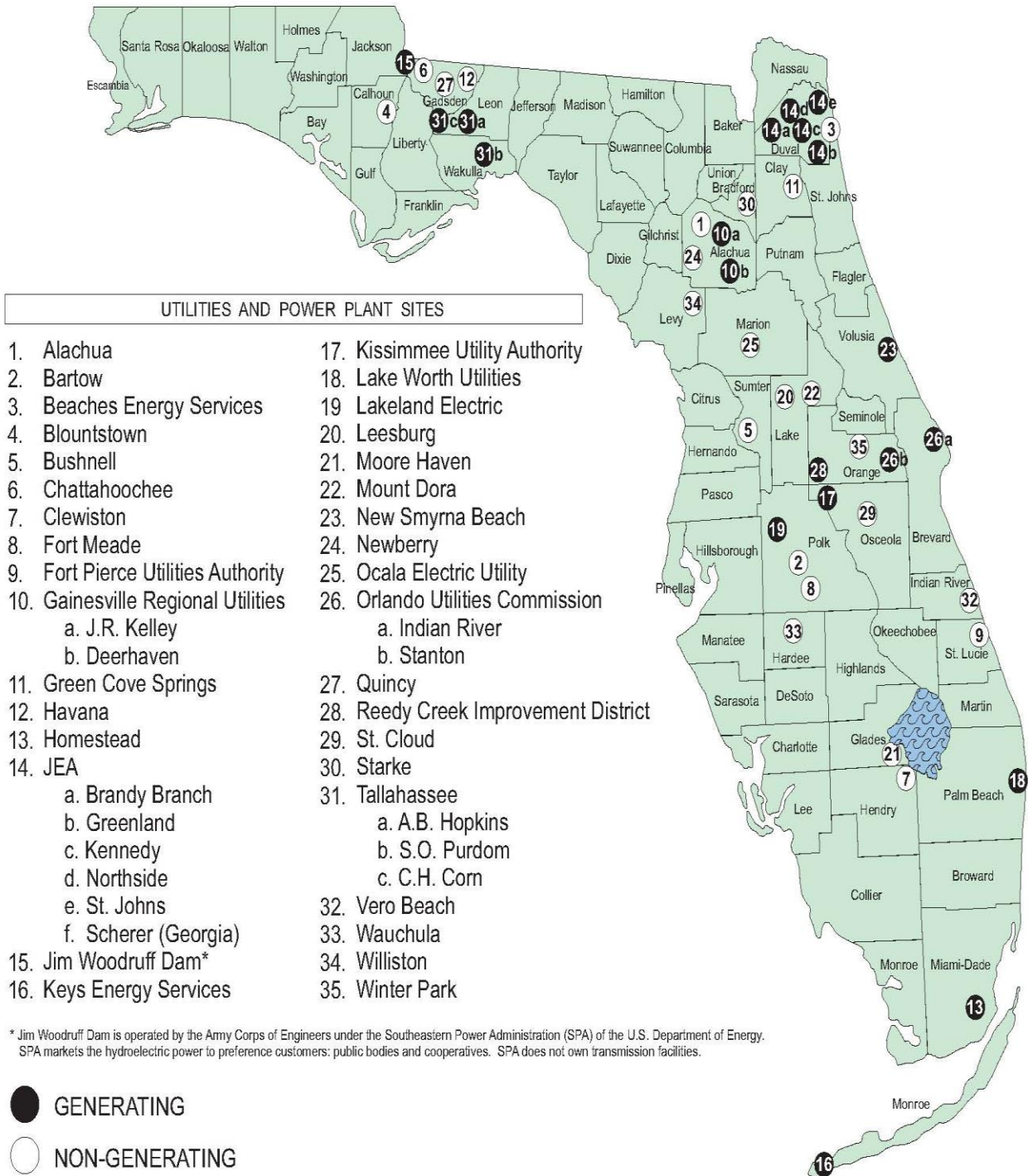
Investor-Owned Electric



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

Source: Florida Public Service Commission.

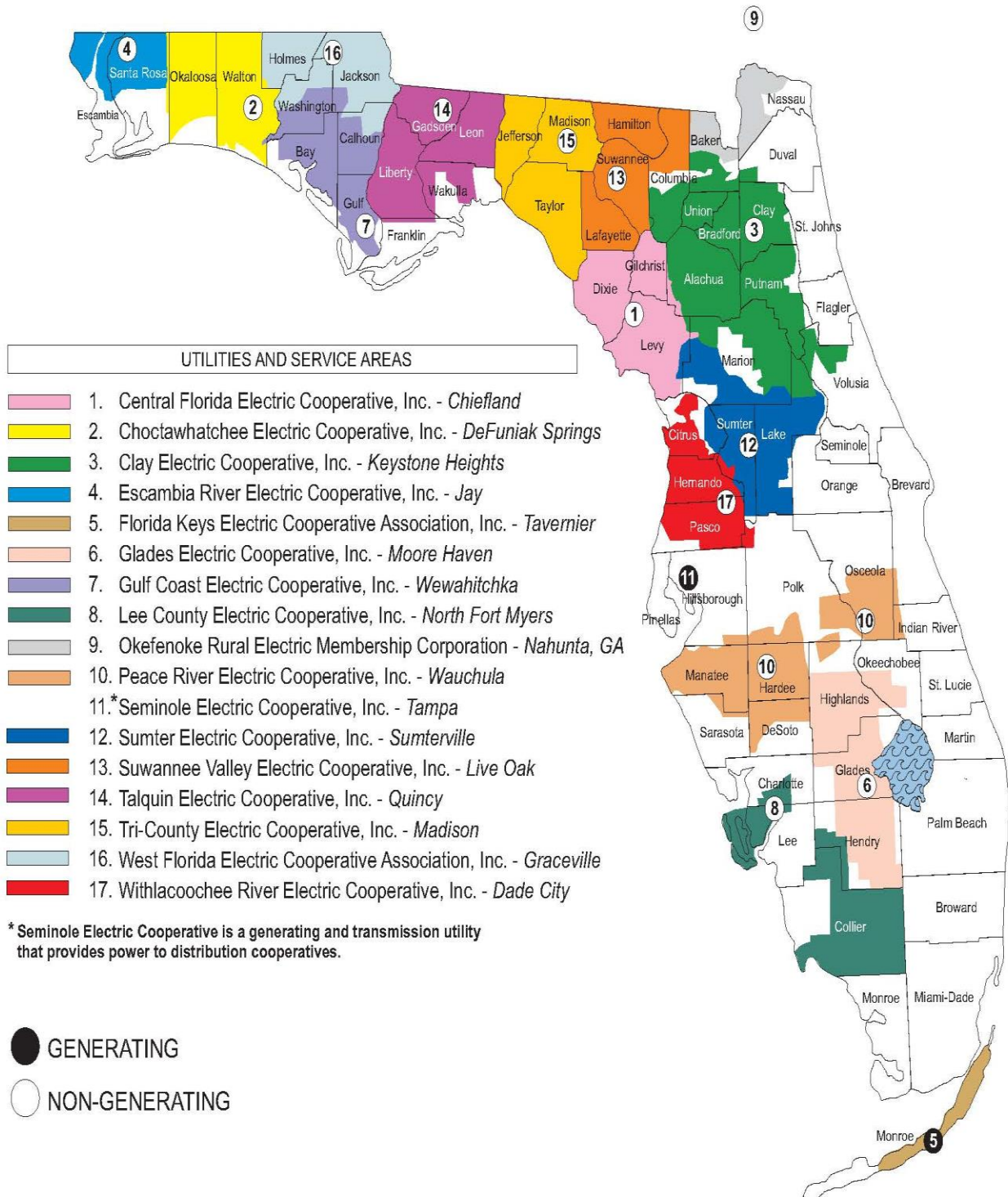
Municipal Electric



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.

Rural Electric Cooperatives



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

Source: Florida Public Service Commission.

Florida Electric Utility Industry

2016

Investor-Owned

Duke Energy Florida, LLC (DEF)
Florida Power & Light Company (FPL)
Florida Public Utilities Company (FPUC)
Gulf Power Company (GPC)
Tampa Electric Company (TECO)

Generating Municipal

Florida Municipal Power Agency (FMPA)
Gainesville Regional Utilities (GRU)
Homestead, City of (HST)
JEA (f/k/a Jacksonville Electric Authority)
Keys Energy Services (f/k/a Key West Utility Board) (KES)
Kissimmee Utility Authority (KUA)
Lake Worth Utilities, City of (LWU)
Lakeland Electric, City of (LAK)
New Smyrna Beach, Utilities Commission of (NSB)
Orlando Utilities Commission (OUC) *
Reedy Creek Improvement District (RCID)
Tallahassee, City of (TAL)

Generating Rural Electric Cooperative

PowerSouth Energy Cooperative (PEC) **
Seminole Electric Cooperative, Inc. (SEC) **
USCE-Mobile District (USC) **

Generating - Other

Southeastern Power Administration (SPA)
(Jim Woodruff Dam)

Non-Generating Municipal

Alachua, City of (ALA)
Bartow, City of (BAR)
Beaches Energy Services (f/k/a City of Jacksonville Beach) (BES)
Blountstown, City of (BLT)
Bushnell, City of (BUS)
Chattahoochee, City of (CHA)
Clewiston, City of (CLE)
Fort Meade, City of (FMD)
Fort Pierce Utilities Authority (FTP)
Green Cove Springs, City of (GCS)
Havana, Town of (HAV)
Leesburg, City of (LEE)
Moore Haven, City of (MHN)
Mount Dora, City of (MTD)
Newberry, City of (NEW)
Ocala Electric Utility (OEU)
Quincy, City of (QUI)
St. Cloud, City of (STC) *
Starke, City of (STK)
Vero Beach, City of (VER)
Wauchula, City of (WAU)
Williston, City of (WIL)
Winter Park, City of (WPK)

Non-Generating Rural Electric Cooperative

Central Florida Electric Cooperative, Inc. (CFC)
Choctawhatchee Electric Cooperative, Inc. (CHW)
Clay Electric Cooperative, Inc. (CEC)
Escambia River Electric Cooperative, Inc. (ESC)
Florida Keys Electric Cooperative Association, Inc. (FKE)
Glades Electric Cooperative, Inc. (GEC)
Gulf Coast Electric Cooperative, Inc. (GCC)
Lee County Electric Cooperative, Inc. (LEC)
Okefenokee Rural Electric Membership Corporation (OKC)
Peace River Electric Cooperative, Inc. (PRC)
Sumter Electric Cooperative, Inc. (SMC)
Suwannee Valley Electric Cooperative, Inc. (SVC)
Talquin Electric Cooperative, Inc. (TAC)
Tri-County Electric Cooperative, Inc. (TRC)
West Florida Electric Cooperative Association, Inc. (WFC)
Withlacoochee River Electric Cooperative, Inc. (WRC)

* St. Cloud is served by Orlando Utilities Commission.

** Wholesale-only generating utility.

Counties Served by Generating Electric Utilities 2016

| 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 |

Counties Served by Non-Generating Electric Utilities 2016

| 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 |
| St. Cloud | Osceola |
| Starke | Bradford |
| Vero Beach | Indian River |
| Wauchula | Hardee |
| Williston | Levy |
| Winter Park | Orange, Seminole |
| Rural Electric Cooperative | |
| Central Florida Electric | Alachua, Dixie, Gilchrist, Levy, Marion |
| Choctawhatchee Electric | Holmes, Okaloosa, Santa Rosa, Walton |
| Clay Electric | Alachua, Baker, Bradford, Clay, Columbia, Duval, Flagler, Lake, Levy, Marion, Putnam, Suwannee, Union, Volusia |
| Escambia River Electric | Escambia, Santa Rosa |
| Florida Keys Electric Cooperative Association | Monroe |
| 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 Membership Corporation | 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 |

Highlights of the Florida Electric Utility Industry 2012-2016

| | 2012 | 2013 | 2014 | 2015 | 2016 |
|--|----------|----------|----------|----------|----------|
| Total Installed Capacity (Megawatts) | 57,454 | 57,999 | 58,888 | 58,422 | 58,295 |
| Installed Capacity by Fuel Type (Percentage) | | | | | |
| Natural Gas | 51% | 54% | 55% | 55% | 58% |
| Coal | 21 | 21 | 21 | 21 | 17 |
| Nuclear | 7 | 6 | 6 | 6 | 6 |
| Other * | 21 | 19 | 18 | 18 | 18 |
| Total ** | 100% | 100% | 100% | 100% | 100% |
| Energy Sales (Gigawatt-hours) | | | | | |
| Residential | 104,028 | 104,999 | 116,529 | 122,535 | 123,449 |
| Commercial | 74,211 | 74,146 | 76,238 | 88,530 | 85,147 |
| Industrial | 18,454 | 18,487 | 25,913 | 16,617 | 20,848 |
| Other | 7,038 | 6,973 | 7,998 | 6,437 | 6,708 |
| Total | 203,731 | 204,605 | 226,678 | 234,119 | 236,152 |
| Number of Customers (1,000s) | | | | | |
| Residential | 7,967 | 8,076 | 8,881 | 9,130 | 9,197 |
| Commercial | 977 | 985 | 1,079 | 1,133 | 1,134 |
| Industrial | 24 | 29 | 41 | 20 | 29 |
| Other | 127 | 131 | 199 | 132 | 135 |
| Total | 9,095 | 9,221 | 10,200 | 10,416 | 10,495 |
| Average Residential Bill (1,000 kWh) *** | \$122.15 | \$123.75 | \$125.50 | \$116.62 | \$113.58 |

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

** May not add to total due to rounding.

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

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

Table 1

Rate of Return
2012-2016

| | 2012 | 2013 | 2014 | 2015 | 2016 |
|--|---------|---------|---------|----------|----------|
| Average per Book Rate of Return | | | | | |
| Duke Energy Florida, LLC | 6.11% | 6.93% | 6.10% | 5.70% | 5.97% |
| Florida Power & Light Company | 7.04 | 7.02 | 7.58 | 7.59 | 7.30 |
| Gulf Power Company | 5.89 | 5.53 | 5.55 | 5.45 | 5.01 |
| Tampa Electric Company | 6.95 | 6.16 | 6.56 | 6.52 | 6.36 |
| Average Adjusted Rate of Return | | | | | |
| Duke Energy Florida, LLC | 5.45% | 7.14% | 6.48% | 6.70% | 6.34% |
| Florida Power & Light Company | 6.83 | 6.57 | 6.81 | 6.84 | 6.63 |
| Gulf Power Company | 5.45 | 5.10 | 5.73 | 5.79 | 5.18 |
| Tampa Electric Company | 6.91 | 6.12 | 6.66 | 6.64 | 6.48 |
| FPSC Authorized Rate of Return * | | | | | |
| Duke Energy Florida, LLC | 7.23% | 7.04% | 7.02% | 6.90% | 6.65% |
| Florida Power & Light Company | 6.36 | 6.36 | 6.34 | 6.37 | 6.17 |
| Gulf Power Company | 6.05 | 5.75 | 5.75 | 5.56 | 5.45 |
| Tampa Electric Company | 7.28 | 6.48 | 6.30 | 6.22 | 6.12 |
| Adjusted Jurisdictional Year-End Rate Base (Millions) | | | | | |
| Duke Energy Florida, LLC | \$7,648 | \$8,353 | \$9,556 | \$10,133 | \$10,485 |
| Florida Power & Light Company | 21,015 | 24,417 | 26,472 | 27,760 | 31,457 |
| Gulf Power Company | 1,813 | 1,925 | 1,930 | 2,000 | 2,106 |
| Tampa Electric Company | 3,812 | 4,026 | 4,248 | 4,445 | 4,724 |

* Average Capital Structure - Midpoint.

Table 2

Sources of Revenue
(Percentage of Total Sales) *
2012-2016

| | 2012 | 2013 | 2014 | 2015 | 2016 |
|--|------------|------------|-------------|-------------|-------------|
| Duke Energy Florida, LLC | | | | | |
| Residential | 56.96% | 58.49% | 55.84% | 56.32% | 57.78% |
| Commercial | 28.85 | 28.11 | 26.28 | 25.98 | 25.39 |
| Industrial | 6.53 | 6.12 | 6.30 | 6.21 | 5.82 |
| Other | 7.66 | 7.28 | 6.89 | 6.80 | 6.56 |
| Sales for Resale | 4.81 | 4.68 | 4.69 | 4.70 | 4.45 |
| Total | 100% | 100% | 100% | 100% | 100% |
| Total Sales (Millions) | \$4,187.80 | \$3,917.13 | \$4,578.10 | \$4,661.86 | \$4,160.85 |
| Florida Power & Light Company | | | | | |
| Residential | 56.13% | 56.45% | 55.35% | 56.14% | 56.46% |
| Commercial | 39.39 | 38.65 | 37.42 | 36.79 | 36.59 |
| Industrial | 2.09 | 1.93 | 1.85 | 1.81 | 1.77 |
| Other | 0.82 | 0.85 | 0.80 | 0.79 | 0.82 |
| Sales for Resale | 1.58 | 2.13 | 4.58 | 4.47 | 4.37 |
| Total | 100% | 100% | 100% | 100% | 100% |
| Total Sales (Millions) | \$9,963.00 | \$9,947.18 | \$11,016.83 | \$11,196.35 | \$10,532.48 |
| Gulf Power Company | | | | | |
| Residential | 43.25% | 44.91% | 45.93% | 49.30% | 50.55% |
| Commercial | 27.69 | 27.77 | 26.73 | 28.78 | 28.83 |
| Industrial | 9.97 | 9.62 | 9.99 | 10.43 | 10.63 |
| Other | 2.53 | 2.24 | 0.30 | 0.31 | 0.31 |
| Sales for Resale | 16.56 | 15.46 | 17.05 | 11.17 | 9.69 |
| Total | 100% | 100% | 100% | 100% | 100% |
| Total Sales (Millions) | \$1,395.08 | \$1,337.71 | \$1,518.01 | \$1,489.56 | \$1,415.66 |
| Tampa Electric Company | | | | | |
| Residential | 49.22% | 49.93% | 51.17% | 52.29% | 52.55% |
| Commercial | 31.42 | 30.98 | 30.58 | 30.56 | 30.11 |
| Industrial | 9.08 | 9.18 | 8.35 | 8.05 | 8.17 |
| Other | 9.45 | 9.45 | 9.24 | 8.91 | 8.85 |
| Sales for Resale | 0.84 | 0.45 | 0.66 | 0.19 | 0.32 |
| Total | 100% | 100% | 100% | 100% | 100% |
| Total Sales (Millions) | \$1,948.48 | \$1,876.15 | \$1,969.01 | \$1,989.34 | \$1,970.65 |

* May not add to total due to rounding.

Table 3

Uses of Revenue
(Percentage of Total Operating Revenue) *
2012-2016

| | 2012 | 2013 | 2014 | 2015 | 2016 |
|--|-------------|-------------|-------------|-------------|-------------|
| Duke Energy Florida, LLC | | | | | |
| Fuel | 31.79% | 33.04% | 31.56% | 27.38% | 26.64% |
| Other Operation and Maintenance | 36.26 | 34.32 | 30.33 | 29.86 | 35.68 |
| Depreciation and Amortization | 4.79 | -0.12 | 9.86 | 14.06 | 7.47 |
| Taxes Other Than Income Taxes | 7.41 | 7.29 | 6.92 | 7.10 | 7.42 |
| Income Taxes | 5.02 | 9.07 | 6.76 | 6.27 | 6.74 |
| Interest | 5.47 | 4.03 | 3.98 | 4.01 | 4.36 |
| Net Operating Income Less Interest | 9.27 | 12.36 | 10.60 | 11.32 | 11.70 |
| Total | 100% | 100% | 100% | 100% | 100% |
| Total Operating Revenue (Millions) | \$4,664.49 | \$4,498.24 | \$4,940.40 | \$4,936.08 | \$4,469.85 |
| Florida Power & Light Company | | | | | |
| Fuel | 33.35% | 30.51% | 31.34% | 28.66% | 26.68% |
| Other Operation and Maintenance | 26.56 | 22.80 | 20.74 | 21.99 | 18.36 |
| Depreciation and Amortization | 7.11 | 10.83 | 11.55 | 12.07 | 12.74 |
| Taxes Other Than Income Taxes | 10.58 | 11.00 | 10.44 | 10.55 | 11.17 |
| Income Taxes | 7.49 | 8.60 | 8.78 | 8.45 | 10.08 |
| Interest | 3.89 | 3.82 | 3.73 | 3.72 | 4.12 |
| Net Operating Income Less Interest | 11.02 | 12.44 | 13.41 | 14.57 | 16.86 |
| Total | 100% | 100% | 100% | 100% | 100% |
| Total Operating Revenue (Millions) | \$10,033.45 | \$10,214.49 | \$11,189.33 | \$11,467.74 | \$10,691.84 |
| Gulf Power Company | | | | | |
| Fuel | 37.75% | 36.92% | 37.92% | 29.98% | 29.07% |
| Other Operation and Maintenance | 27.07 | 27.51 | 28.29 | 32.97 | 32.24 |
| Depreciation and Amortization | 9.87 | 10.41 | 9.16 | 9.07 | 10.85 |
| Taxes Other Than Income Taxes | 6.76 | 6.83 | 6.99 | 7.94 | 8.07 |
| Income Taxes | 5.45 | 5.54 | 5.53 | 6.09 | 5.87 |
| Interest | 4.18 | 3.89 | 3.35 | 3.72 | 3.70 |
| Net Operating Income Less Interest | 8.92 | 8.90 | 8.76 | 10.24 | 10.21 |
| Total | 100% | 100% | 100% | 100% | 100% |
| Total Operating Revenue (Millions) | \$1,439.90 | \$1,440.41 | \$1,590.59 | \$1,483.01 | \$1,484.63 |
| Tampa Electric Company | | | | | |
| Fuel | 35.47% | 35.54% | 35.73% | 31.78% | 28.73% |
| Other Operation and Maintenance | 24.52 | 24.38 | 23.83 | 24.01 | 25.82 |
| Depreciation and Amortization | 11.61 | 12.05 | 11.20 | 13.88 | 15.58 |
| Taxes Other Than Income Taxes | 7.54 | 7.76 | 7.63 | 7.62 | 7.72 |
| Income Taxes | 5.90 | 6.02 | 6.53 | 6.98 | 6.39 |
| Interest | 5.47 | 4.77 | 4.60 | 4.66 | 4.53 |
| Net Operating Income Less Interest | 9.49 | 9.49 | 10.49 | 11.08 | 11.23 |
| Total | 100% | 100% | 100% | 100% | 100% |
| Total Operating Revenue (Millions) | \$2,006.50 | \$1,936.62 | \$2,029.54 | \$2,053.05 | \$2,024.12 |

* May not add to total due to rounding.

Table 4

Proprietary Capital and Long-Term Debt *
December 31, 2016

| | Duke Energy Florida, LLC | Florida Power & Light Company | Gulf Power Company | Tampa Electric Company |
|---|-----------------------------|----------------------------------|-----------------------|---------------------------|
| Proprietary Capital (Thousands) | | | | |
| Common Stock | \$0 | \$1,373,069 | \$503,060 | \$119,697 |
| Preferred Stock | 0 | 0 | 150,000 | 0 |
| Retained Earnings | 3,134,872 | 6,874,784 | 295,770 | 196,899 |
| Other Paid-In Capital | 1,764,083 | 8,336,000 | 589,315 | 2,100,840 |
| Other Adjustments | 1,158 | -3,741 | -2,959 | -2,664 |
| Total Proprietary Capital | \$4,900,113 | \$16,580,111 | \$1,535,185 | \$2,414,772 |
| Long-Term Debt (Thousands) | | | | |
| Bonds | \$4,375,000 | \$9,468,271 | \$0 | \$1,920,930 |
| Other Long-Term Debt and/or Adjustments | 364,856 | 416,803 | 1,081,151 | -2,602 |
| Total Long-Term Debt | 4,739,856 | 9,885,074 | 1,081,151 | 1,918,328 |
| Total Proprietary Capital and Long-Term Debt | \$9,639,968 | \$26,465,185 | \$2,616,336 | \$4,333,101 |
| Proprietary Capital (Percent) | | | | |
| Common Stock | 0.0% | 5.2% | 19.2% | 2.8% |
| Preferred Stock | 0.0 | 0.0 | 5.7 | 0.0 |
| Retained Earnings | 32.5 | 26.0 | 11.3 | 4.5 |
| Other Paid-In Capital | 18.3 | 31.5 | 22.5 | 48.5 |
| Other Adjustments | 0.0 | 0.0 | -0.1 | -0.1 |
| Total Proprietary Capital | 50.8% | 62.6% | 58.7% | 55.7% |
| Long-Term Debt (Percent) | | | | |
| Bonds | 45.4% | 35.8% | 0.0% | 44.3% |
| Other Long-Term Debt and/or Adjustments | 3.8 | 1.6 | 41.3 | -0.1 |
| Total Long-Term Debt | 49.2 | 37.4 | 41.3 | 44.3 |
| Total Proprietary Capital and Long-Term Debt | 100% | 100% | 100% | 100% |

* May not add to total due to rounding.

Table 5

Financial Integrity Indicators 2012-2016

| | 2012 | 2013 | 2014 | 2015 | 2016 |
|--|---------|----------|----------|---------|---------|
| Times Interest Earned with AFUDC | | | | | |
| Duke Energy Florida, LLC | 3.12 x | 3.77 x | 4.35 x | 4.35 x | 5.01 x |
| Florida Power & Light Company | 5.56 | 6.00 | 6.38 | 6.61 | 6.84 |
| Gulf Power Company | 4.37 | 4.56 | 5.05 | 5.09 | 5.21 |
| Tampa Electric Company | 3.64 | 4.23 | 4.64 | 4.70 | 4.68 |
| Times Interest Earned without AFUDC | | | | | |
| Duke Energy Florida, LLC | 2.92 x | 3.71 x | 4.34 x | 4.31 x | 4.82 x |
| Florida Power & Light Company | 5.40 | 5.81 | 6.27 | 6.42 | 6.64 |
| Gulf Power Company | 4.25 | 4.40 | 4.75 | 4.79 | 5.21 |
| Tampa Electric Company | 3.61 | 4.12 | 4.48 | 4.45 | 4.34 |
| AFUDC as a Percentage of Net Income Interest Coverage Ratio | | | | | |
| Duke Energy Florida, LLC | 14.97 % | 3.71 % | 0.24 % | 1.76 % | 6.29 % |
| Florida Power & Light Company | 5.26 | 5.25 | 2.94 | 4.88 | 5.09 |
| Gulf Power Company | 5.36 | 6.87 | 10.93 | 10.80 | -0.01 |
| Tampa Electric Company | 1.80 | 4.45 | 6.08 | 9.26 | 12.44 |
| Percent Internally Generated Funds | | | | | |
| Duke Energy Florida, LLC | 66.13 % | 119.03 % | 116.65 % | 82.02 % | 96.78 % |
| Florida Power & Light Company | 83.72 | 76.59 | 64.75 | 74.83 | 82.44 |
| Gulf Power Company | 80.52 | 71.13 | 51.15 | 100.65 | 142.32 |
| Tampa Electric Company | 119.87 | 91.61 | 62.78 | 75.04 | 87.81 |

Net Generation

Table 6

**Net Energy for Load
2007-2016**

| Year | Total Net Energy for Load (Gigawatt-Hours) | Investor-Owned | | Other * | |
|------|--|------------------------------|------------------|------------------------------|------------------|
| | | Quantity (Gigawatt-Hours) | Percent of Total | Quantity (Gigawatt-Hours) | Percent of Total |
| 2007 | 246,492 | 195,897 | 79.5% | 50,595 | 20.5% |
| 2008 | 240,910 | 191,929 | 79.7 | 48,981 | 20.3 |
| 2009 | 239,414 | 187,345 | 78.3 | 52,069 | 21.7 |
| 2010 | 247,169 | 193,820 | 78.4 | 53,349 | 21.6 |
| 2011 | 237,658 | 186,328 | 78.4 | 51,330 | 21.6 |
| 2012 | 234,366 | 182,998 | 78.1 | 51,368 | 21.9 |
| 2013 | 235,025 | 183,156 | 77.9 | 51,869 | 22.1 |
| 2014 | 238,611 | 188,310 | 78.9 | 50,301 | 21.1 |
| 2015 | 248,406 | 197,137 | 79.4 | 51,269 | 20.6 |
| 2016 | 248,019 | 196,676 | 79.3 | 51,343 | 20.7 |

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

Table 7

Net Energy for Load (NEL) by Fuel Type and Other Sources 2007-2016

| Year | Coal | | Oil | | Natural Gas | | Nuclear | | Hydro | | NEL | | NEL Total | |
|------|----------------|---------|----------------|---------|----------------|---------|----------------|---------|----------------|---------|----------|---------------|--------------|---------|
| | Gigawatt-Hours | Percent | Gigawatt-Hours | Percent | Gigawatt-Hours | Percent | Gigawatt-Hours | Percent | Gigawatt-Hours | Percent | Subtotal | Other Sources | | |
| | | | | | | | | | | | | NUG * | Other ** | |
| 2007 | 72,189 | 33.8% | 16,473 | 7.7% | 95,719 | 44.8% | 29,399 | 13.8% | 9 | 0.4% | 213,789 | 3,635 | 29,068 | 246,492 |
| 2008 | 69,116 | 33.2 | 9,267 | 4.5 | 97,386 | 46.8 | 32,122 | 15.4 | 22 | 0.0 | 207,913 | 2,881 | 30,116 | 240,910 |
| 2009 | 57,901 | 27.6 | 6,283 | 3.0 | 116,062 | 55.4 | 29,202 | 13.9 | 28 | 0.0 | 209,476 | 2,956 | 26,982 | 239,414 |
| 2010 | 61,323 | 28.3 | 5,925 | 2.7 | 125,546 | 57.8 | 24,215 | 11.2 | 25 | 0.0 | 217,034 | 2,971 | 27,164 | 247,169 |
| 2011 | 56,014 | 25.8 | 1,178 | 0.5 | 137,243 | 63.2 | 22,828 | 10.5 | 8 | 0.0 | 217,271 | 2,611 | 17,776 | 237,658 |
| 2012 | 47,542 | 21.8 | 682 | 0.3 | 151,856 | 69.6 | 18,088 | 8.3 | 9 | 0.0 | 218,177 | 2,982 | 13,207 | 234,366 |
| 2013 | 50,775 | 23.3 | 487 | 0.2 | 140,187 | 64.3 | 26,672 | 12.2 | 29 | 0.0 | 218,150 | 3,182 | 13,693 | 235,025 |
| 2014 | 55,410 | 24.7 | 447 | 0.2 | 140,348 | 62.6 | 27,730 | 12.4 | 162 | 0.1 | 224,097 | 1,799 | 12,715 | 238,611 |
| 2015 | 46,685 | 20.2 | 592 | 0.3 | 156,348 | 67.5 | 27,872 | 12.0 | 162 | 0.1 | 231,659 | 1,841 | 14,906 | 248,406 |
| 2016 | 43,638 | 18.9 | 1,733 | 0.8 | 156,007 | 67.7 | 29,052 | 12.6 | 25 | 0.0 | 230,455 | 171 | 17,393 | 248,019 |

* Non-utility generation

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

Table 8

**Projected Net Energy for Load by Fuel Type and Other Sources
(Gigawatt-Hours)
2017-2026**

| Year | Net Energy for Load | Interchange & Other * | Nuclear | Coal | Oil | Natural Gas | Hydro | NUG |
|------|------------------------|--------------------------|---------|--------|-------|----------------|-------|-----|
| 2017 | 244,736 | 12,484 | 29,017 | 48,051 | 1,331 | 153,662 | 19 | 172 |
| 2018 | 247,397 | 17,375 | 28,842 | 37,566 | 1,094 | 162,327 | 19 | 174 |
| 2019 | 249,620 | 15,123 | 29,686 | 35,556 | 1,347 | 167,713 | 19 | 176 |
| 2020 | 252,265 | 16,691 | 29,581 | 37,502 | 1,151 | 167,144 | 19 | 177 |
| 2021 | 253,881 | 18,336 | 29,419 | 39,332 | 1,129 | 165,467 | 19 | 179 |
| 2022 | 256,195 | 19,906 | 30,038 | 39,049 | 1,116 | 165,886 | 19 | 181 |
| 2023 | 258,383 | 19,861 | 29,569 | 40,443 | 1,068 | 167,240 | 19 | 183 |
| 2024 | 261,054 | 23,685 | 29,491 | 41,573 | 1,044 | 165,057 | 19 | 185 |
| 2025 | 263,029 | 22,410 | 30,046 | 38,475 | 1,005 | 170,888 | 19 | 186 |
| 2026 | 265,609 | 23,003 | 29,577 | 38,872 | 989 | 172,961 | 19 | 188 |

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

Table 9

**Projected Net Energy for Load by Percentage of Fuel Type and Other Sources
2017-2026**

| Year | Net Energy for Load * | Interchange & Other ** | Nuclear | Coal | Oil | Natural Gas | Hydro | NUG |
|------|--------------------------|---------------------------|---------|--------|-------|----------------|-------|-------|
| 2017 | 100% | 5.10% | 11.86% | 19.63% | 0.54% | 62.79% | 0.01% | 0.07% |
| 2018 | 100 | 7.02 | 11.66 | 15.18 | 0.44 | 65.61 | 0.01 | 0.07 |
| 2019 | 100 | 6.06 | 11.89 | 14.24 | 0.54 | 67.19 | 0.01 | 0.07 |
| 2020 | 100 | 6.62 | 11.73 | 14.87 | 0.46 | 66.26 | 0.01 | 0.07 |
| 2021 | 100 | 7.22 | 11.59 | 15.49 | 0.44 | 65.18 | 0.01 | 0.07 |
| 2022 | 100 | 7.77 | 11.72 | 15.24 | 0.44 | 64.75 | 0.01 | 0.07 |
| 2023 | 100 | 7.69 | 11.44 | 15.65 | 0.41 | 64.73 | 0.01 | 0.07 |
| 2024 | 100 | 9.07 | 11.30 | 15.93 | 0.40 | 63.23 | 0.01 | 0.07 |
| 2025 | 100 | 8.52 | 11.42 | 14.63 | 0.38 | 64.97 | 0.01 | 0.07 |
| 2026 | 100 | 8.66 | 11.14 | 14.64 | 0.37 | 65.12 | 0.01 | 0.07 |

* May not add to total due to rounding.

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

Generating Capacity and Capability

Table 10

**Installed Nameplate Capacity/Firm Summer Net Capability
(Megawatts)
2007-2016**

| Year | Hydro-Electric | Conventional Steam | Nuclear Steam | Combustion Turbine | Internal Combustion | Combined Cycle | Other * | Total ** |
|------|----------------|--------------------|---------------|--------------------|---------------------|----------------|---------|----------|
| 2007 | 63 | 22,089 | 3,896 | 7,799 | 265 | 16,216 | 0 | 50,326 |
| 2008 | 63 | 21,719 | 3,931 | 8,333 | 239 | 16,260 | 0 | 50,544 |
| 2009 | 52 | 19,611 | 3,991 | 8,096 | 184 | 20,275 | 0 | 52,208 |
| 2010 | 52 | 20,563 | 3,913 | 7,278 | 175 | 21,245 | 0 | 53,226 |
| 2011 | 52 | 19,909 | 3,947 | 8,013 | 171 | 22,908 | 0 | 54,999 |
| 2012 | 52 | 17,837 | 3,471 | 8,697 | 153 | 22,192 | 0 | 52,402 |
| 2013 | 52 | 17,837 | 3,471 | 8,697 | 153 | 22,192 | 0 | 52,402 |
| 2014 | 52 | 17,684 | 3,600 | 7,755 | 115 | 25,312 | 15 | 54,533 |
| 2015 | 51 | 17,616 | 3,599 | 7,940 | 108 | 24,866 | 15 | 54,195 |
| 2016 | 51 | 16,774 | 3,599 | 7,345 | 108 | 26,130 | 132 | 54,139 |

* Solar photovoltaic.

** May not add to total due to rounding.

Table 11

**Installed Nameplate Capacity/Summer Net Capability
by Type of Ownership
(Megawatts)
2007-2016**

| Year | Total for State * | Investor-Owned | | Municipal, Rural Electric Cooperative, and Other | |
|------|-------------------|----------------|------------------|--|------------------|
| | | Quantity | Percent of Total | Quantity | Percent of Total |
| 2007 | 50,326 | 38,203 | 75.91% | 12,123 | 24.09% |
| 2008 | 50,544 | 38,218 | 75.61 | 12,326 | 24.39 |
| 2009 | 52,208 | 39,788 | 76.21 | 12,420 | 23.79 |
| 2010 | 53,226 | 40,161 | 75.45 | 13,065 | 24.55 |
| 2011 | 54,999 | 41,367 | 75.21 | 13,633 | 24.79 |
| 2012 | 52,402 | 38,890 | 74.22 | 13,512 | 25.78 |
| 2013 | 52,402 | 38,890 | 74.22 | 13,512 | 25.78 |
| 2014 | 54,533 | 41,266 | 75.67 | 13,267 | 24.33 |
| 2015 | 54,195 | 41,018 | 75.69 | 13,177 | 24.31 |
| 2016 | 54,139 | 41,050 | 75.82 | 13,089 | 24.18 |

* May not add to total due to rounding.

Table 12

**Installed Capacity by Fuel and Technology
(Megawatts)
2014-2016**

| Fuel | Technology | 2014 | 2015 | 2016 | |
|---------------------------------|----------------------|--------|--------|--------|-------|
| Natural Gas | Combined Cycle | 22,430 | 24,383 | 24,384 | |
| | Turbine & Diesel | 6,840 | 6,107 | 6,107 | |
| | Steam | 2,565 | 2,057 | 2,057 | |
| Total Natural Gas | | 31,835 | 32,547 | 32,548 | |
| Percentage of Total | | 54.29% | 54.78% | 58.38% | |
| Coal | Steam | 12,054 | 12,116 | 9,161 | |
| | Combined Cycle | 220 | 220 | 220 | |
| Total Coal | | 12,274 | 12,336 | 9,381 | |
| Percentage of Total | | 20.93% | 20.76% | 16.83% | |
| Oil | Turbine & Diesel | 2,513 | 2,497 | 2,390 | |
| | Steam | 3,666 | 3,663 | 3,640 | |
| Total Oil | | 6,179 | 6,160 | 6,030 | |
| Percentage of Total | | 10.54% | 10.37% | 10.82% | |
| Nuclear | Steam | 3,599 | 3,600 | 3,599 | |
| | Total Nuclear | | 3,599 | 3,600 | 3,599 |
| Percentage of Total | | 6.14% | 6.06% | 6.46% | |
| Other * | | | 4,757 | 4,772 | 4,197 |
| | Total Other | | 4,757 | 4,772 | 4,197 |
| Percentage of Total | | 8.11% | 8.03% | 7.53% | |
| Total Installed Capacity | | 58,644 | 59,415 | 55,755 | |
| Percentage of Total ** | | 100% | 100% | 100% | |

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

** May not add to total due to rounding.

Table 13

Installed Winter and Summer Net Capacity by Utility *
(Megawatts)
2015-2016

| Utility | Winter Net Capacity | | Summer Net Capacity | |
|--|---------------------|---------------|---------------------|---------------|
| | 2015 | 2016 | 2015 | 2016 |
| Investor-Owned | | | | |
| Duke Energy Florida, LLC | 10,070 | 9,447 | 9,101 | 8,323 |
| Florida Power & Light Company | 27,129 | 27,828 | 25,233 | 26,139 |
| Gulf Power Company | 2,387 | 2,290 | 2,348 | 2,251 |
| Tampa Electric Company | 4,728 | 4,728 | 4,337 | 4,337 |
| Generating Municipal | | | | |
| Florida Municipal Power Agency | 1,338 | 1,323 | 1,289 | 1,283 |
| Gainesville Regional Utilities | 554 | 550 | 525 | 521 |
| Homestead | 32 | 32 | 32 | 32 |
| JEA | 4,110 | 4,110 | 3,769 | 3,769 |
| Keys Energy Services | 36 | 37 | 36 | 37 |
| Kissimmee Utility Authority | 255 | 253 | 243 | 242 |
| Lake Worth Utilities | 80 | 80 | 77 | 77 |
| Lakeland Electric | 975 | 890 | 929 | 844 |
| New Smyrna Beach | 48 | 48 | 44 | 44 |
| Orlando Utilities Commission ** | 1,528 | 1,528 | 1,482 | 1,482 |
| Reedy Creek Improvement District | 55 | 55 | 55 | 55 |
| Tallahassee | 822 | 822 | 746 | 746 |
| Generating Rural Electric Cooperative | | | | |
| PowerSouth Energy *** | 2,098 | 2,098 | 1,894 | 1,902 |
| Seminole Electric *** | 2,178 | 2,178 | 2,012 | 2,012 |
| USCE-Mobile District *** | 44 | 44 | 44 | 44 |
| Total Utility ^ | 58,467 | 58,340 | 54,196 | 54,139 |
| Total Non-Utility | 4,525 | 4,446 | 4,226 | 4,156 |
| Total State of Florida ^ | 62,992 | 62,786 | 58,422 | 58,295 |

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

** St. Cloud is served by Orlando Utilities Commission.

*** Wholesale-only generating utility.

^ May not add to total due to rounding.

Table 14

Summer Net Capacity by Generation by Utility *
(Megawatts)
December 31, 2016

| Utility | Hydro-Electric | Conventional Steam | Nuclear Steam | Combustion Turbine | Internal Combustion | Combined Cycle | Other ** | Total |
|--|----------------|--------------------|---------------|--------------------|---------------------|----------------|------------|---------------|
| Investor-Owned | | | | | | | | |
| Duke Energy Florida, LLC | 0 | 3,201 | 0 | 1,955 | 0 | 3,167 | 0 | 8,323 |
| Florida Power & Light Company | 0 | 4,382 | 3,453 | 2,018 | 0 | 16,156 | 131 | 26,139 |
| Gulf Power Company | 0 | 1,648 | 0 | 44 | 3 | 556 | 0 | 2,251 |
| Tampa Electric Company | 0 | 1,602 | 0 | 884 | 0 | 1,850 | 1 | 4,337 |
| Generating Municipal | | | | | | | | |
| Florida Municipal Power Agency | 0 | 240 | 86 | 161 | 0 | 796 | 0 | 1,283 |
| Gainesville Regional Utilities | 0 | 303 | 0 | 110 | 0 | 108 | 0 | 521 |
| Homestead | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 32 |
| JEA | 0 | 2,306 | 0 | 812 | 0 | 651 | 0 | 3,769 |
| 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 | 0 | 0 | 46 | 0 | 31 | 0 | 77 |
| Lakeland Electric | 0 | 311 | 0 | 35 | 55 | 443 | 0 | 844 |
| New Smyrna Beach | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 44 |
| Orlando Utilities Commission *** | 0 | 760 | 60 | 197 | 0 | 466 | 0 | 1,482 |
| Reedy Creek Improvement District | 0 | 0 | 0 | 0 | 0 | 55 | 0 | 55 |
| Tallahassee | 0 | 76 | 0 | 148 | 0 | 522 | 0 | 746 |
| Generating Rural Electric Cooperative | | | | | | | | |
| PowerSouth Energy ^ | 7 | 665 | 0 | 578 | 0 | 652 | 0 | 1,902 |
| Seminole Electric ^ | 0 | 1,260 | 0 | 270 | 0 | 482 | 0 | 2,012 |
| USCE-Mobile District ^ | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| Total Utility ^^ | 51 | 16,774 | 3,599 | 7,345 | 108 | 26,130 | 132 | 54,139 |
| Total Non-Utility ^^^ | | | | | | | | 4,156 |
| Total State of Florida ^^ | 51 | 16,774 | 3,599 | 7,345 | 108 | 26,130 | 132 | 58,295 |

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

** Solar photovoltaic.

*** St. Cloud is served by Orlando Utilities Commission.

^ Wholesale-only generating utility.

^^ May not add to total due to rounding.

^^^ Does not include the capacity of merchant plants.

Table 15

Nuclear Generating Units
December 31, 2016

| Utility | Location | Commercial In-Service Month/Year | Maximum Nameplate Rating KW | Net Capacity | |
|--|-------------------|--|-----------------------------------|--------------|--------------|
| | | | | Summer MW | Winter MW |
| <u>Florida Power & Light Company</u> | | | | | |
| St. Lucie #1 | St. Lucie County | May-76 | 1,080,000 | 981 | 1,003 |
| St. Lucie #2 | St. Lucie County | Jun-83 | 919,620 | 840 * | 860 * |
| Turkey Point #3 | Miami-Dade County | Dec-72 | 877,200 | 811 | 839 |
| Turkey Point #4 | Miami-Dade County | Sep-73 | 877,200 | 821 | 848 |

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

Table 16, Page 1 of 2

**Annual Peak Demand
(Megawatts)
2012-2016**

| Utility | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------------------------------|--------|--------|--------|--------|--------|
| Investor-Owned | | | | | |
| Duke Energy Florida, LLC | 9,029 | 8,779 | 9,219 | 9,475 | 9,728 |
| Florida Power & Light Company | 21,440 | 21,576 | 22,935 | 22,959 | 23,858 |
| Florida Public Utilities Company | * NR | NR | NR | 161 | 147 |
| Gulf Power Company | 2,351 | 2,362 | 2,694 | 2,495 | 2,508 |
| Tampa Electric Company | 3,892 | 3,873 | 4,054 | 4,013 | 4,131 |
| Generating Municipal | | | | | |
| Florida Municipal Power Agency | NR | NR | NR | NR | 1,296 |
| Gainesville Regional Utilities | 415 | 416 | 409 | 421 | 428 |
| Homestead | NR | NR | 101 | 102 | 105 |
| JEA | 2,665 | 2,596 | 2,823 | 2,863 | 2,763 |
| Keys Energy Services | 138 | 138 | 144 | 148 | 148 |
| Kissimmee Utility Authority | 310 | 314 | 327 | 335 | 354 |
| Lake Worth Utilities | NR | NR | 92 | 93 | 96 |
| Lakeland Electric | 612 | 602 | 627 | 656 | 646 |
| New Smyrna Beach | 86 | 86 | 91 | 101 | 101 |
| Orlando Utilities Commission ** | NR | NR | 1,297 | 1,171 | 1,189 |
| Reedy Creek Improvement District | NR | NR | 190 | 189 | 195 |
| Tallahassee | NR | NR | 574 | 600 | 597 |
| Non-Generating Municipal | | | | | |
| Alachua | NR | NR | 26 | 27 | 28 |
| Bartow | 63 | 58 | 59 | 65 | 63 |
| Beaches Energy Services | 171 | 168 | 192 | 195 | 178 |
| Blountstown | NR | NR | 9 | 9 | 8 |
| Bushnell | NR | NR | 6 | 7 | 6 |
| Chattahoochee | 7 | 7 | 8 | 8 | 8 |
| Clewiston | 21 | 185 | 21 | 22 | 22 |
| Fort Meade | 11 | 9 | 10 | 11 | 9 |
| Fort Pierce Utilities Authority | 103 | 104 | 106 | 107 | 112 |
| Green Cove Springs | NR | NR | 27 | 28 | 26 |
| Havana | NR | NR | 6 | 6 | 6 |

* Not Reported.

** St. Cloud is served by Orlando Utilities Commission.

Annual Peak Demand
(Megawatts)
2012-2016

| Utility | 2012 | 2013 | 2014 | 2015 | 2016 |
|---|-------|-------|-------|-------|-------|
| Non-Generating Municipal (Continued) | | | | | |
| Leesburg | 91 | 106 | 100 | 106 | 112 |
| Moore Haven | NR | NR | 3 | 36 | 4 |
| Mount Dora | 21 | 22 | 22 | 22 | 22 |
| Newberry | NR | NR | 8 | 9 | 8 |
| Ocala Electric Utility | NR | NR | 285 | 287 | 305 |
| Quincy | NR | NR | 30 | 28 | 26 |
| Starke | 15 | 15 | 15 | 15 | 16 |
| Vero Beach | 153 | 151 | 159 | 167 | 161 |
| Wauchula | NR | NR | 13 | 13 | 14 |
| Williston | NR | NR | 8 | 8 | 9 |
| Winter Park | NR | NR | 96 | 95 | 79 |
| Generating & Non-Generating Rural Electric Cooperative | | | | | |
| Central Florida Electric | 134 | 129 | 128 | 136 | 129 |
| Choctawhatchee Electric | 196 | 178 | 234 | 225 | 192 |
| Clay Electric | NR | NR | 775 | 839 | 788 |
| Escambia River Electric | NR | NR | 59 | 55 | 46 |
| Florida Keys Electric | 146 | 145 | 156 | 161 | 149 |
| Glades Electric | 85 | 61 | 76 | 78 | 68 |
| Gulf Coast Electric | NR | NR | 104 | 100 | 90 |
| Lee County Electric | NR | NR | 816 | 885 | 868 |
| Okefenoke Rural Electric | 29 | 26 | 31 | 31 | 28 |
| Peace River Electric | 140 | 134 | 139 | 154 | 161 |
| PowerSouth Energy *** | 471 | 392 | 541 | 510 | 440 |
| Seminole Electric *** | 3,918 | 3,707 | 3,218 | 3,403 | 3,318 |
| Sumter Electric | 709 | 678 | 714 | 805 | 788 |
| Suwannee Valley Electric | 109 | 108 | 117 | 120 | 107 |
| Talquin Electric | NR | NR | 285 | 279 | 253 |
| Tri-County Electric | NR | NR | 72 | 71 | 70 |
| West Florida Electric | 133 | 115 | 136 | 139 | 123 |
| Withlacoochee River Electric | 1,011 | 939 | 980 | 1,074 | 1,019 |

*** Wholesale-only generating utility.

Table 17

**Projected Summer and Winter Peak Demand
(Megawatts)
2017-2026**

| Year | Summer Peak | Year | Winter Peak |
|------|-------------|-----------|-------------|
| 2017 | 50,379 | 2017-2018 | 47,544 |
| 2018 | 50,941 | 2018-2019 | 48,083 |
| 2019 | 51,509 | 2019-2020 | 48,525 |
| 2020 | 51,891 | 2020-2021 | 49,040 |
| 2021 | 52,459 | 2021-2022 | 49,436 |
| 2022 | 52,952 | 2022-2023 | 49,879 |
| 2023 | 53,578 | 2023-2024 | 50,325 |
| 2024 | 54,252 | 2024-2025 | 50,737 |
| 2025 | 54,898 | 2025-2026 | 51,174 |
| 2026 | 55,545 | 2026-2027 | 51,542 |

Table 18

Load Factors of Generating Utilities
December 31, 2016

| Utility | Net Energy for Load (Gigawatt-Hours) | Peak Load (Megawatts) | Load Factor (Percentage) |
|-----------------------------------|---|--------------------------|-----------------------------|
| Investor-Owned | | | |
| Duke Energy Florida, LLC | 42,976 | 9,728 | 50.4% |
| Florida Power & Light Company | 121,619 | 23,858 | 58.2 |
| Gulf Power Company | 12,015 | 2,508 | 54.7 |
| Tampa Electric Company | 20,165 | 4,131 | 55.7 |
| Municipal | | | |
| Florida Municipal Power Agency | 6,039 | 1,296 | 53.2 |
| Gainesville Regional Utilities | 2,054 | 428 | 54.8 |
| Homestead | 546 | 105 | 59.3 |
| JEA | 12,937 | 2,763 | 53.4 |
| Keys Energy Services * | 787 | 148 | 60.6 |
| Kissimmee Utility Authority | 1,570 | 354 | 50.6 |
| Lake Worth Utilities * | 470 | 96 | 55.7 |
| Lakeland Electric | 3,116 | 646 | 55.1 |
| New Smyrna Beach | 417 | 101 | 47.2 |
| Orlando Utilities Commission ** | 8,176 | 1,189 | 78.5 |
| Reedy Creek Improvement District | 1,235 | 195 | 72.3 |
| Tallahassee | 2,779 | 597 | 53.1 |
| Rural Electric Cooperative | | | |
| PowerSouth Energy *** | 2,016 | 440 | 52.3 |
| Seminole Electric *** | 14,729 | 3,318 | 50.7 |

* May not add to total due to rounding.

** St. Cloud is served by Orlando Utilities Commission.

*** Wholesale-only generating utility.

Renewable Energy, Energy Efficiency and Conservation

Table 19

**Renewable Generation Capacity
(Megawatts)
2013-2016**

| Renewable Type * | 2013 | 2014 | 2015 | 2016 |
|-----------------------|--------------|--------------|--------------|--------------|
| Biomass | 415 | 581 | 581 | 582 |
| Hydro | 63 | 64 | 64 | 63 |
| Landfill Gas | 40 | 49 | 47 | 87 |
| Municipal Solid Waste | 466 | 398 | 400 | 545 |
| Solar | 178 | 218 | 228 | 263 |
| Waste Heat | 308 | 308 | 308 | 310 |
| Wind | 0 | 0 | 10 | 10 |
| Total | 1,470 | 1,618 | 1,638 | 1,860 |

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

Table 20

Customer-Owned Photovoltaic Facilities *
2013-2016

| | 2013 | 2014 | 2015 | 2016 |
|---|---------------|---------------|---------------|---------------|
| Number of Solar Energy Systems | | | | |
| Duke Energy Florida, LLC | 1,480 | 2,065 | 2,967 | 4,445 |
| Florida Power & Light Company | 2,563 | 3,234 | 4,250 | 5,411 |
| Florida Public Utilities Company | 52 | 59 | 69 | 87 |
| Gulf Power Company | 300 | 366 | 465 | 503 |
| Tampa Electric Company | 425 | 567 | 810 | 1,097 |
| Municipal | 1,007 | 1,202 | 1,616 | 2,375 |
| Rural Electric Cooperative | 853 | 1,053 | 1,423 | 2,047 |
| Total | 6,680 | 8,546 | 11,600 | 15,965 |
| Gross Power Rating (MW)(AC) ** | | | | |
| Duke Energy Florida, LLC | 13 | 18 | 28 | 37 |
| Florida Power & Light Company | 23 | 30 | 40 | 49 |
| Florida Public Utilities Company | 0.2 | 0.0 | 0.3 | 0.5 |
| Gulf Power Company | 1 | 2 | 2 | 3 |
| Tampa Electric Company | 7 | 8 | 10 | 12 |
| Municipal | 9 | 10 | 13 | 19 |
| Rural Electric Cooperative | 5 | 6 | 9 | 13 |
| Total *** | 58.2 | 74.0 | 101.8 | 132.8 |
| Energy Delivered to the Grid (MWh) | | | | |
| Duke Energy Florida, LLC | 5,602 | 8,090 | 12,153 | 20,611 |
| Florida Power & Light Company | 10,501 | 15,542 | 19,922 | 24,347 |
| Florida Public Utilities Company | 101 | 140 | 187 | 290 |
| Gulf Power Company | 690 | 991 | 3,849 | 5,507 |
| Tampa Electric Company | 1,692 | 3,870 | 4,307 | 5,983 |
| Municipal | 3,900 | 4,253 | 5,493 | 8,436 |
| Rural Electric Cooperative | 3,845 | 3,913 | 3,678 | 5,142 |
| Total | 26,331 | 36,799 | 49,588 | 70,316 |

* Includes demonstration sites.

** Alternating Current

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

Table 21

Demand-Side Management Programs
Amount of Load Reduction at the Generator *
2013-2016

| | 2013 | 2014 | 2015 | 2016 |
|-----------------------------------|--------------|--------------|--------------|--------------|
| Summer Peak Reduction (MW) | | | | |
| Duke Energy Florida, LLC | 53 | 61 | 60 | 176 |
| Florida Power & Light Company | 127 | 142 | 86 | 52 |
| Florida Public Utilities Company | 1 | 1 | 1 | 1 |
| Gulf Power Company | 30 | 22 | 20 | 5 |
| JEA | 3 | 3 | 3 | 7 |
| Orlando Utilities Commission | 2 | 1 | 3 | 3 |
| Tampa Electric Company | 22 | 26 | 23 | 10 |
| Total | 237 | 256 | 195 | 254 |
| Winter Peak Reduction (MW) | | | | |
| Duke Energy Florida, LLC | 69 | 71 | 69 | 193 |
| Florida Power & Light Company | 56 | 67 | 45 | 33 |
| Florida Public Utilities Company | 0.4 | 0.6 | 0.4 | 0.5 |
| Gulf Power Company | 28 | 21 | 17 | 5 |
| JEA | 4 | 3 | 3 | 5 |
| Orlando Utilities Commission | 1 | 1 | 1 | 2 |
| Tampa Electric Company | 20 | 27 | 20 | 11 |
| Total ** | 178.8 | 190.3 | 155.0 | 248.3 |
| Energy Reduction (GWh) | | | | |
| Duke Energy Florida, LLC | 84 | 100 | 76 | 151 |
| Florida Power & Light Company | 214 | 222 | 156 | 63 |
| Florida Public Utilities Company | 2 | 2 | 1 | 2 |
| Gulf Power Company | 96 | 61 | 48 | 7 |
| JEA | 32 | 17 | 7 | 16 |
| Orlando Utilities Commission | 6 | 3 | 14 | 13 |
| Tampa Electric Company | 50 | 66 | 34 | 31 |
| Total | 484 | 471 | 337 | 283 |

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

** May not add to total due to rounding.

Table 22

Investor-Owned Photovoltaic Facilities *
December 31, 2016

| Utility | Name of Plant | In-Service Date | Nameplate Capacity MW | Total Energy MWh |
|-------------------------------|---|--------------------|-----------------------------|------------------------|
| Duke Energy Florida, LLC | Econolockhatchee | Jan-89 | 0.0066 | 10.3 |
| | Osceola Solar | May-16 | 3.8000 | 3,371 |
| | Perry Solar | Aug-16 | 5.1000 | 3,013 |
| Florida Power & Light Company | Manatee Solar Energy Center | Dec-16 | 74.5 | 27,758 |
| | Citrus Solar Energy Center | Dec-16 | 74.5 | 36,416 |
| | Babcock Ranch Solar Energy Center | Dec-16 | 74.5 | 30,217 |
| | Space Coast Next Generation Solar Energy Center | Apr-10 | 10.0 | 18,300 |
| | DeSoto Next Generation Solar Energy Center | Oct-09 | 25.0 | 48,651 |
| | Non-Universal Solar | | | 3.4 |
| Tampa Electric Company | TIA | Dec-15 | 1.6 | 3,175 |
| | Legoland | Dec-16 | 1.5 | 141 |
| Total ** | | | 273.91 | 176,214 |

* Excludes demonstration sites.

** May not add to total due to rounding.

Fuel Analysis

Table 23

Fuel Requirements 2007-2016

| Year | Coal (Thousands of Short Tons) | Oil * (Thousands of Barrels) | Natural Gas (Billions of Cubic Feet) | Nuclear (U-235) (Trillion BTUs) |
|------|-----------------------------------|---------------------------------|---|------------------------------------|
| 2007 | 30,957 | 31,190 | 691 | 317 |
| 2008 | 36,224 | 14,496 | 736 | 342 |
| 2009 | 26,238 | 10,285 | 845 | 315 |
| 2010 | 27,497 | 9,971 | 923 | 262 |
| 2011 | 25,420 | 2,395 | 1,006 | 253 |
| 2012 | 22,187 | 868 | 1,109 | 198 |
| 2013 | 23,547 | 911 | 999 | 301 |
| 2014 | 25,122 | 880 | 837 | 307 |
| 2015 | 23,217 | 1,111 | 1,149 | 309 |
| 2016 | 20,260 | 1,442 | 1,141 | 321 |

* Residual and distillate.

Table 24

**Projected Fuel Requirements
2017-2026**

| Year | Coal (Thousands of Short Tons) | Oil * (Thousands of Barrels) | Natural Gas (Billions of Cubic Feet) | Nuclear (U-235) (Trillion BTUs) |
|------|-----------------------------------|---------------------------------|---|------------------------------------|
| 2017 | 21,424 | 799 | 1,094 | 310 |
| 2018 | 16,658 | 247 | 1,144 | 308 |
| 2019 | 15,917 | 358 | 1,166 | 317 |
| 2020 | 16,533 | 159 | 1,152 | 316 |
| 2021 | 17,390 | 131 | 1,147 | 315 |
| 2022 | 17,350 | 146 | 1,153 | 321 |
| 2023 | 18,027 | 155 | 1,141 | 316 |
| 2024 | 18,420 | 160 | 1,149 | 316 |
| 2025 | 17,085 | 195 | 1,189 | 321 |
| 2026 | 17,230 | 183 | 1,204 | 316 |

* Residual and distillate.

Sales

Table 25
Retail Sales
(Megawatt-Hours)
2012-2016

| Utility | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Investor-Owned | | | | | |
| Duke Energy Florida, LLC | 36,380,683 | 36,615,987 | 37,240,099 | 38,553,183 | 38,773,961 |
| Florida Power & Light Company | 102,486,274 | 103,050,990 | 104,389,052 | 109,820,398 | 109,662,646 |
| Florida Public Utilities Company | 653,519 | 630,676 | 648,235 | 638,345 | 645,696 |
| Gulf Power Company | 10,987,832 | 10,929,745 | 11,390,697 | 11,085,872 | 11,081,505 |
| Tampa Electric Company | 18,408,580 | 18,417,662 | 18,525,739 | 19,006,474 | 19,234,525 |
| Municipal | | | | | |
| Alachua | * NR | NR | 116,659 | 121,530 | 130,432 |
| Bartow | 257,599 | 257,304 | 261,505 | 273,041 | 277,393 |
| Beaches Energy Services | 699,527 | 687,865 | 702,194 | 713,708 | 722,486 |
| Blountstown | NR | NR | 36,307 | 35,439 | 35,345 |
| Bushnell | NR | NR | 23,801 | 23,252 | 23,892 |
| Chattahoochee | 36,104 | 35,796 | 36,574 | 37,890 | 37,277 |
| Clewiston | 96,278 | 93,753 | 95,925 | 100,978 | 101,094 |
| Fort Meade | 38,857 | 38,967 | 39,295 | 40,512 | 40,878 |
| Fort Pierce Utilities Authority | 515,941 | 516,235 | 518,446 | 550,871 | 551,618 |
| Gainesville Regional Utilities | 1,699,935 | 1,694,401 | 1,708,818 | 1,765,193 | 1,796,293 |
| Green Cove Springs | NR | NR | 96,513 | 111,677 | 106,946 |
| Havana | NR | NR | 24,107 | 24,079 | 23,483 |
| Homestead | NR | NR | 493,636 | 535,095 | 526,881 |
| JEA | 11,906,884 | 11,829,364 | 12,224,128 | 11,090,657 | 12,215,148 |
| Keys Energy Services | 702,495 | 707,235 | 715,008 | 751,178 | 742,272 |
| Kissimmee Utility Authority | 1,333,923 | 1,350,728 | 1,383,233 | 1,472,391 | 1,521,688 |
| Lake Worth Utilities | NR | NR | 373,598 | 430,307 | 434,758 |
| Lakeland Electric | 2,770,042 | 2,832,342 | 2,904,061 | 3,034,075 | 3,029,959 |
| Leesburg | 453,107 | 455,380 | 441,239 | 470,555 | 473,329 |
| Moore Haven | NR | NR | 12,933 | 16,178 | 15,135 |
| Mount Dora | 84,632 | 85,683 | 87,009 | 89,184 | 89,184 |
| New Smyrna Beach | 365,076 | 372,081 | 386,381 | 396,602 | 414,356 |
| Newberry | NR | NR | 32,774 | 33,986 | 34,480 |
| Ocala Electric Utility | NR | NR | 1,221,227 | 1,256,904 | 1,296,691 |
| Orlando Utilities Commission ** | NR | NR | 6,210,381 | 6,535,984 | 6,598,932 |
| Quincy | NR | NR | 125,747 | 123,847 | 120,177 |
| Reedy Creek Improvement District | NR | NR | 1,127,952 | 1,149,020 | 1,154,677 |
| Starke | 65,387 | 64,825 | 66,269 | 67,841 | 68,775 |
| Tallahassee | NR | NR | 2,637,695 | 2,654,983 | 2,639,582 |
| Vero Beach | 701,617 | 688,020 | 704,939 | 738,209 | 736,094 |
| Wauchula | NR | NR | 59,712 | 63,349 | 59,293 |
| Williston | NR | NR | 30,316 | 31,935 | 33,229 |
| Winter Park | NR | NR | 420,523 | 433,409 | 437,232 |
| Rural Electric Cooperative | | | | | |
| Central Florida Electric | 445,997 | 447,305 | 464,089 | 471,129 | 491,417 |
| Choctawhatchee Electric | 731,688 | 748,286 | 805,232 | 818,143 | 835,460 |
| Clay Electric | 2,971,589 | 3,012,976 | 3,127,781 | 3,152,976 | 3,279,354 |
| Escambia River Electric | NR | NR | 177,604 | 175,021 | 174,820 |
| Florida Keys Electric | 640,872 | 659,748 | 679,462 | 720,650 | 709,568 |
| Glades Electric | 311,001 | 305,418 | 307,948 | 315,608 | 315,891 |
| Gulf Coast Electric | NR | NR | 336,426 | 339,769 | 341,231 |
| Lee County Electric | NR | NR | 3,570,274 | 3,790,662 | 3,800,338 |
| Okefenoke Rural Electric *** | 153,875 | 151,761 | 157,544 | 157,160 | 161,794 |
| Peace River Electric | 599,868 | 602,492 | 624,492 | 679,718 | 708,465 |
| Sumter Electric | 2,771,266 | 2,836,670 | 2,982,645 | 3,149,363 | 3,238,522 |
| Suwannee Valley Electric | 425,422 | 442,172 | 479,238 | 505,520 | 533,673 |
| Talquin Electric | NR | NR | 965,142 | 955,069 | 953,400 |
| Tri-County Electric | NR | NR | 298,986 | 300,179 | 310,193 |
| West Florida Electric | 465,858 | 477,632 | 504,163 | 498,390 | 495,708 |
| Withlacoochee River Electric | 3,570,119 | 3,565,155 | 3,685,143 | 3,811,169 | 3,914,371 |
| Respondent Total ^ | 203,731,846 | 204,604,653 | 226,678,897 | 234,118,658 | 236,151,543 |
| FRCC State Total | | | | | 228,407,000 |

* Not Reported.

** St. Cloud is served by Orlando Utilities Commission.

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

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

Source: Florida Public Service Commission, 2016 Statistics of the Florida Electric Utility Industry; Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2017), FRCC Form 4.0, p. S-2; Responses to staff data request.

Table 26

**Retail Sales by Class of Service
(Megawatt-Hours)
2016**

| Utility | Residential | Commercial | Industrial | Other * | Total |
|-----------------------------------|--------------------|-------------------|-------------------|------------------|--------------------|
| Investor-Owned | | | | | |
| Duke Energy Florida, LLC | 20,265,419 | 12,093,759 | 3,196,547 | 3,218,236 | 38,773,961 |
| Florida Power & Light Company | 58,687,422 | 47,355,279 | 3,058,561 | 561,384 | 109,662,646 |
| Florida Public Utilities Company | 303,654 | 304,458 | 29,700 | 7,885 | 645,696 |
| Gulf Power Company | 5,357,623 | 3,868,588 | 1,830,299 | 24,996 | 11,081,505 |
| Tampa Electric Company | 9,187,440 | 6,310,404 | 1,928,404 | 1,808,277 | 19,234,525 |
| Municipal | | | | | |
| Alachua | 44,908 | 85,524 | 0 | 0 | 130,432 |
| Bartow | 141,789 | 43,435 | 81,657 | 10,511 | 277,393 |
| Beaches Energy Services | 448,638 | 273,848 | 0 | 0 | 722,486 |
| Blountstown | 11,069 | 22,572 | 0 | 1,704 | 35,345 |
| Bushnell | 8,623 | 8,045 | 7,224 | 0 | 23,892 |
| Chattahoochee | 11,185 | 3,928 | 20,578 | 1,586 | 37,277 |
| Clewiston | 51,088 | 47,235 | 2,359 | 412 | 101,094 |
| Fort Meade | 28,247 | 12,631 | 0 | 0 | 40,878 |
| Fort Pierce Utilities Authority | 237,163 | 304,492 | 0 | 9,963 | 551,618 |
| Gainesville Regional Utilities | 822,237 | 784,263 | 164,801 | 24,992 | 1,796,293 |
| Green Cove Springs | 50,922 | 56,024 | 0 | 0 | 106,946 |
| Havana | 13,280 | 10,203 | 0 | 0 | 23,483 |
| Homestead | 301,456 | 36,319 | 162,525 | 26,582 | 526,881 |
| JEA | 5,350,812 | 4,063,547 | 2,488,609 | 312,180 | 12,215,148 |
| Keys Energy Services | 366,571 | 372,859 | 0 | 2,842 | 742,272 |
| Kissimmee Utility Authority | 836,276 | 488,681 | 178,944 | 17,786 | 1,521,688 |
| Lake Worth Utilities | 254,734 | 97,155 | 0 | 82,869 | 434,758 |
| Lakeland Electric | 1,472,621 | 221,905 | 1,228,419 | 107,014 | 3,029,959 |
| Leesburg | 227,106 | 215,237 | 13,185 | 17,800 | 473,329 |
| Moore Haven | 8,967 | 5,791 | 0 | 376 | 15,135 |
| Mount Dora | 51,704 | 31,687 | 0 | 5,792 | 89,184 |
| New Smyrna Beach | 276,175 | 52,628 | 82,433 | 3,120 | 414,356 |
| Newberry | 18,846 | 3,196 | 6,349 | 6,089 | 34,480 |
| Ocala Electric Utility | 532,248 | 165,422 | 565,894 | 33,126 | 1,296,691 |
| Orlando Utilities Commission ** | 2,490,811 | 401,917 | 3,503,859 | 202,345 | 6,598,932 |
| Quincy | 46,669 | 45,163 | 18,706 | 9,639 | 120,177 |
| Reedy Creek Improvement District | 146 | 1,145,974 | 0 | 8,556 | 1,154,677 |
| Starke | 24,208 | 44,567 | 0 | 0 | 68,775 |
| Tallahassee | 1,080,178 | 1,529,079 | 0 | 30,326 | 2,639,582 |
| Vero Beach | 376,112 | 345,646 | 14,335 | 0 | 736,094 |
| Wauchula | 27,781 | 30,000 | 0 | 1,513 | 59,293 |
| Williston | 13,511 | 14,814 | 0 | 4,905 | 33,229 |
| Winter Park | 191,571 | 220,924 | 0 | 24,736 | 437,232 |
| Rural Electric Cooperative | | | | | |
| Central Florida Electric | 354,842 | 66,592 | 53,239 | 16,744 | 491,417 |
| Choctawhatchee Electric | 616,609 | 218,851 | 0 | 0 | 835,460 |
| Clay Electric | 2,228,015 | 648,701 | 402,602 | 36 | 3,279,354 |
| Escambia River Electric | 134,693 | 34,076 | 5,549 | 502 | 174,820 |
| Florida Keys Electric | 406,563 | 106,837 | 195,693 | 475 | 709,568 |
| Glades Electric | 157,596 | 40,467 | 117,828 | 0 | 315,891 |
| Gulf Coast Electric | 265,283 | 30,743 | 33,083 | 12,121 | 341,231 |
| Lee County Electric | 2,635,487 | 1,135,458 | 0 | 29,393 | 3,800,338 |
| Okefenoke Rural Electric *** | 148,251 | 7,876 | 2,942 | 2,726 | 161,794 |
| Peace River Electric | 465,248 | 209,606 | 20,195 | 13,416 | 708,465 |
| Sumter Electric | 2,238,935 | 211,342 | 787,060 | 1,185 | 3,238,522 |
| Suwannee Valley Electric | 295,871 | 94,792 | 142,304 | 706 | 533,673 |
| Talquin Electric | 669,116 | 163,842 | 113,608 | 6,835 | 953,400 |
| Tri-County Electric | 168,227 | 52,525 | 89,441 | 0 | 310,193 |
| West Florida Electric | 314,893 | 37,393 | 109,413 | 34,009 | 495,708 |
| Withlacoochee River Electric | 2,730,212 | 970,647 | 191,517 | 21,995 | 3,914,371 |
| Respondent Total ^ | 123,449,050 | 85,146,947 | 20,847,861 | 6,707,685 | 236,151,543 |
| FRCC State Total | 118,453,000 | 86,158,000 | 17,248,000 | 6,548,000 | 228,407,000 |

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

** St. Cloud is served by Orlando Utilities Commission.

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

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

Source: Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2017), FRCC Form 4.0, p. S-2; Responses to staff data request.

Table 27

Sales for Resale for Selected Utilities
(Megawatt-Hours)
2016

| Utility | Sales for Resale (Megawatt-Hours) | Total Retail Sales * (Megawatt-Hours) | Total Sales (Megawatt-Hours) | Resales as Percentage of Total (%) |
|-----------------------------------|-----------------------------------|---------------------------------------|------------------------------|------------------------------------|
| Investor-Owned | | | | |
| Duke Energy Florida, LLC | 1,886,974 | 38,773,961 | 40,660,935 | 4.64% |
| Florida Power & Light Company | 9,617,045 | 109,662,646 | 119,279,691 | 8.06 |
| Gulf Power Company | 3,535,264 | 11,081,505 | 14,616,769 | 24.19 |
| Tampa Electric Company | 205,617 | 19,234,525 | 19,440,142 | 1.06 |
| Municipal | | | | |
| Gainesville Regional Utilities | 220,749 | 1,796,293 | 2,017,042 | 10.94% |
| JEA | 469,136 | 12,215,148 | 12,684,283 | 3.70 |
| Orlando Utilities Commission ** | 1,297,432 | 6,598,932 | 7,896,364 | 16.43 |
| Reedy Creek Improvement District | 5,190 | 1,154,677 | 1,159,867 | 0.45 |
| Tallahassee | 77,597 | 2,639,582 | 2,717,179 | 2.86 |
| Rural Electric Cooperative | | | | |
| PowerSouth Energy | 1,946,799 | 0 | 1,946,799 | 100% |
| Seminole Electric | 14,460,818 | 0 | 14,460,818 | 100 |
| Talquin Electric | 20,536 | 953,400 | 973,936 | 2.11 |

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

** St. Cloud is served by Orlando Utilities Commission.

Table 28

**Retail Sales by Class of Service
(Gigawatt-Hours)
2012-2016**

| Year | Residential | Commercial | Industrial | Other * | Total Retail Sales |
|------|-------------|------------|------------|---------|--------------------|
| 2012 | 109,163 | 80,905 | 19,616 | 6,196 | 215,880 |
| 2013 | 110,127 | 83,283 | 17,047 | 6,132 | 216,589 |
| 2014 | 111,826 | 83,326 | 17,223 | 6,271 | 218,646 |
| 2015 | 117,615 | 86,027 | 17,342 | 6,442 | 227,426 |
| 2016 | 118,453 | 86,158 | 17,248 | 6,548 | 228,407 |

* Street and highway lighting, other sales, and interdepartmental sales.

Table 29

Retail Sales by Percentage of Class of Service *
2007-2016

| Year | Residential | Commercial | Industrial | Other ** |
|------|-------------|------------|------------|----------|
| 2007 | 51.60% | 33.54% | 11.15% | 3.71% |
| 2008 | 50.85 | 35.76 | 9.93 | 3.46 |
| 2009 | 51.78 | 34.99 | 9.79 | 3.44 |
| 2010 | 53.25 | 33.96 | 9.42 | 3.36 |
| 2011 | 51.94 | 35.38 | 9.26 | 3.42 |
| 2012 | 51.06 | 36.43 | 9.06 | 3.45 |
| 2013 | 51.32 | 36.24 | 9.04 | 3.41 |
| 2014 | 51.41 | 33.63 | 11.43 | 3.53 |
| 2015 | 52.34 | 37.81 | 7.10 | 2.75 |
| 2016 | 52.28 | 36.06 | 8.83 | 2.84 |

* May not add to total due to rounding.

** Street and highway lighting.

Revenues

Table 30

Revenues by Class of Service *
(Thousands)
2007-2016

| Year | Residential | Commercial | Industrial | Other ** | Total *** |
|------|--------------|-------------|-------------|-----------|--------------|
| 2007 | \$13,277,193 | \$7,597,120 | \$2,324,045 | \$807,329 | \$24,005,687 |
| 2008 | 12,718,094 | 7,741,767 | 2,089,924 | 729,026 | 23,278,811 |
| 2009 | 13,879,777 | 8,186,033 | 2,322,558 | 828,870 | 25,217,238 |
| 2010 | 13,130,852 | 7,165,633 | 1,869,629 | 774,006 | 22,940,120 |
| 2011 | 12,705,770 | 7,303,597 | 2,017,392 | 795,924 | 22,822,684 |
| 2012 | 11,852,134 | 6,990,684 | 1,597,629 | 739,474 | 21,179,921 |
| 2013 | 12,409,792 | 6,905,538 | 2,015,606 | 729,113 | 22,060,049 |
| 2014 | 13,808,364 | 7,325,378 | 2,321,203 | 826,222 | 24,281,166 |
| 2015 | 14,235,700 | 8,419,986 | 1,347,946 | 678,308 | 24,681,941 |
| 2016 | 13,550,470 | 7,495,717 | 1,622,082 | 680,756 | 23,349,026 |

* 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 add to total due to rounding.

Table 31

Revenues by Percentage of Class of Service *
2007-2016

| Year | Residential | Commercial | Industrial | Other ** |
|------|-------------|------------|------------|----------|
| 2007 | 55.3% | 31.6% | 9.7% | 3.4% |
| 2008 | 54.6 | 33.3 | 9.0 | 3.1 |
| 2009 | 55.0 | 32.5 | 9.2 | 3.3 |
| 2010 | 57.2 | 31.2 | 8.2 | 3.4 |
| 2011 | 55.7 | 32.0 | 8.8 | 3.5 |
| 2012 | 56.0 | 33.0 | 7.5 | 3.5 |
| 2013 | 56.3 | 31.3 | 9.1 | 3.3 |
| 2014 | 56.9 | 30.2 | 9.6 | 3.4 |
| 2015 | 57.7 | 34.1 | 5.5 | 2.7 |
| 2016 | 58.0 | 32.1 | 6.9 | 2.9 |

* May not add to total due to rounding.

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

Number of Customers

Table 32

Number of Customers 2012-2016

| Utility | 2012 | 2013 | 2014 | 2015 | 2016 | Compound Growth Rate |
|---|------------------|------------------|-------------------|-------------------|-------------------|----------------------|
| Investor-Owned | | | | | | |
| Duke Energy Florida, LLC | 1,645,133 | 1,682,181 | 1,699,077 | 1,798,990 | 1,760,016 | 1.70% |
| Florida Power & Light Company | 4,576,415 | 4,626,946 | 4,708,819 | 4,806,234 | 4,869,040 | 1.56 |
| Florida Public Utilities Company | 31,089 | 31,155 | 31,272 | 31,506 | 31,787 | 0.56 |
| Gulf Power Company | 434,441 | 437,698 | 442,370 | 449,471 | 455,415 | 1.19 |
| Tampa Electric Company | 684,235 | 694,734 | 706,160 | 718,712 | 730,503 | 1.65 |
| Total Investor-Owned | 7,371,313 | 7,472,714 | 7,587,698 | 7,804,913 | 7,846,761 | 1.57 |
| Municipal | | | | | | |
| Alachua | * NR | NR | 4,423 | 4,482 | 4,522 | 0.00% |
| Bartow | 11,603 | 11,736 | 11,876 | 12,036 | 12,195 | 1.25 |
| Beaches Energy Services | 33,260 | 33,929 | 34,282 | 34,903 | 34,601 | 0.99 |
| Blountstown | NR | NR | 1,349 | 1,312 | 1,324 | 0.00 |
| Bushnell | NR | NR | 1,021 | 1,031 | 1,040 | 0.00 |
| Chattahoochee | 1,175 | 1,162 | 1,156 | 1,157 | 1,161 | -0.30 |
| Clewiston | 4,167 | 4,206 | 4,237 | 4,289 | 4,315 | 0.88 |
| Fort Meade | 2,711 | 2,722 | 2,652 | 2,803 | 2,660 | -0.47 |
| Fort Pierce Utilities Authority | 27,717 | 27,738 | 28,166 | 28,251 | 28,306 | 0.53 |
| Gainesville Regional Utilities | 92,556 | 93,134 | 93,855 | 94,628 | 95,161 | 0.70 |
| Green Cove Springs | NR | NR | 3,865 | 3,921 | 4,058 | 0.00 |
| Havana | NR | NR | 1,391 | 1,427 | 1,448 | 0.00 |
| Homestead | NR | NR | 23,032 | 23,211 | 24,031 | 0.00 |
| JEA | 413,017 | 419,299 | 426,373 | 449,263 | 456,894 | 2.56 |
| Keys Energy Services | 30,282 | 30,406 | 30,752 | 31,167 | 30,002 | -0.23 |
| Kissimmee Utility Authority | 64,297 | 65,370 | 66,608 | 68,396 | 70,400 | 2.29 |
| Lake Worth Utilities | NR | NR | 25,783 | 26,558 | 26,236 | 0.00 |
| Lakeland Electric | 122,057 | 122,803 | 124,018 | 125,666 | 127,152 | 1.03 |
| Leesburg | 22,478 | 22,709 | 23,483 | 23,793 | 24,597 | 2.28 |
| Moore Haven | NR | NR | 1,017 | 863 | 1,059 | 0.00 |
| Mount Dora | 5,705 | 5,680 | 5,712 | 5,798 | 5,828 | 0.53 |
| New Smyrna Beach | 25,581 | 25,869 | 26,375 | 26,740 | 27,561 | 1.88 |
| Newberry | NR | NR | 1,687 | 1,723 | 1,774 | 0.00 |
| Ocala Electric Utility | NR | NR | 49,168 | 51,896 | 50,187 | 0.00 |
| Orlando Utilities Commission ** | NR | NR | 278,790 | 290,915 | 300,179 | 0.00 |
| Quincy | NR | NR | 4,796 | 4,767 | 4,783 | 0.00 |
| Reedy Creek Improvement District | NR | NR | 1,374 | 1,387 | 1,463 | 0.00 |
| Starke | 2,691 | 2,686 | 2,731 | 2,759 | 2,779 | 0.81 |
| Tallahassee | NR | NR | 116,709 | 117,827 | 119,005 | 0.00 |
| Vero Beach | 33,722 | 33,924 | 34,616 | 34,538 | 34,893 | 0.86 |
| Wauchula | NR | NR | 2,680 | 2,775 | 2,798 | 0.00 |
| Williston | NR | NR | 1,473 | 1,552 | 1,707 | 0.00 |
| Winter Park | NR | NR | 14,150 | 14,392 | 14,947 | 0.00 |
| Total Municipal | 893,019 | 903,373 | 1,449,600 | 1,496,226 | 1,519,066 | 14.20 |
| Rural Electric Cooperative | | | | | | |
| Central Florida Electric | 32,608 | 32,641 | 32,734 | 32,943 | 33,176 | 0.43% |
| Choctawhatchee Electric | 44,302 | 45,290 | 46,656 | 47,291 | 48,675 | 2.38 |
| Clay Electric | 231,624 | 237,625 | 239,735 | 170,429 | 172,861 | -7.05 |
| Escambia River Electric | NR | NR | 10,254 | 10,467 | 10,700 | 0.00 |
| Florida Keys Electric | 31,535 | 31,832 | 32,292 | 32,415 | 32,723 | 0.93 |
| Glades Electric | 16,034 | 16,054 | 16,180 | 16,373 | 16,368 | 0.52 |
| Gulf Coast Electric | NR | NR | 20,013 | 20,274 | 20,565 | 0.00 |
| Lee County Electric | NR | NR | 204,023 | 208,626 | 211,685 | 0.00 |
| Okefenoke Rural Electric *** | 9,939 | 10,028 | 10,037 | 10,999 | 10,189 | 0.62 |
| Peace River Electric | 34,059 | 34,848 | 36,387 | 38,674 | 40,296 | 4.29 |
| Sumter Electric | 177,078 | 181,674 | 187,106 | 193,110 | 194,964 | 2.43 |
| Suwannee Valley Electric | 24,964 | 25,244 | 25,426 | 25,415 | 25,648 | 0.68 |
| Talquin Electric | NR | NR | 52,894 | 53,213 | 53,593 | 0.00 |
| Tri-County Electric | NR | NR | 17,716 | 17,830 | 17,932 | 0.00 |
| West Florida Electric | 27,859 | 28,168 | 28,036 | 28,202 | 28,347 | 0.44 |
| Withlacoochee River Electric | 201,186 | 202,353 | 204,362 | 208,761 | 211,243 | 1.23 |
| Total Rural Electric Cooperative | 831,188 | 845,757 | 1,163,851 | 1,115,022 | 1,128,965 | 7.96 |
| Respondent Total ^ | 9,095,519 | 9,221,844 | 10,201,149 | 10,416,161 | 10,494,792 | 3.64 |
| FRCC State Total | 9,495,319 | 9,585,729 | 9,607,315 | 9,764,790 | 9,901,223 | 1.05 |

* Not Reported.

** St. Cloud is served by Orlando Utilities Commission.

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

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

Source: Florida Public Service Commission, 2016 Statistics of the Florida Electric Utility Industry; Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2017), FRCC Form 4.0, p. S-2; Responses to staff data request.

Table 33

Number of Customers by Class of Service December 31, 2016

| Utility | Residential | Commercial | Industrial | Other | Total |
|---|------------------|------------------|---------------|----------------|-------------------|
| Investor-Owned | | | | | |
| Duke Energy Florida, LLC | 1,559,248 | 172,503 | 2,148 | 26,117 | 1,760,016 |
| Florida Power & Light Company | 4,309,280 | 543,850 | 11,884 | 4,026 | 4,869,040 |
| Florida Public Utilities Company | 24,345 | 4,418 | 2 | 3,022 | 31,787 |
| Gulf Power Company | 398,501 | 56,091 | 254 | 569 | 455,415 |
| Tampa Electric Company | 646,221 | 74,313 | 1,615 | 8,354 | 730,503 |
| Total Investor-Owned | 6,937,595 | 851,175 | 15,903 | 42,088 | 7,846,761 |
| Municipal | | | | | |
| Alachua | 3,789 | 733 | 0 | 0 | 4,522 |
| Bartow | 10,447 | 1,302 | 324 | 122 | 12,195 |
| Beaches Energy Services | 29,823 | 4,778 | 0 | 0 | 34,601 |
| Blountstown | 987 | 298 | 0 | 39 | 1,324 |
| Bushnell | 757 | 273 | 10 | 0 | 1,040 |
| Chattahoochee | 978 | 119 | 1 | 63 | 1,161 |
| Clewiston | 3,430 | 615 | 1 | 269 | 4,315 |
| Fort Meade | 2,345 | 315 | 0 | 0 | 2,660 |
| Fort Pierce Utilities Authority | 23,221 | 5,085 | 0 | 0 | 28,306 |
| Gainesville Regional Utilities | 84,358 | 10,790 | 13 | 0 | 95,161 |
| Green Cove Springs | 3,320 | 738 | 0 | 0 | 4,058 |
| Havana | 1,135 | 313 | 0 | 0 | 1,448 |
| Homestead | 21,411 | 1,982 | 562 | 76 | 24,031 |
| JEA | 401,273 | 51,702 | 205 | 3,714 | 456,894 |
| Keys Energy Services | 25,505 | 4,441 | 0 | 56 | 30,002 |
| Kissimmee Utility Authority | 60,639 | 9,693 | 68 | 0 | 70,400 |
| Lake Worth Utilities | 23,045 | 2,932 | 0 | 259 | 26,236 |
| Lakeland Electric | 105,932 | 10,689 | 1,610 | 8,921 | 127,152 |
| Leesburg | 20,068 | 4,140 | 1 | 388 | 24,597 |
| Moore Haven | 911 | 115 | 0 | 33 | 1,059 |
| Mount Dora | 4,948 | 787 | 0 | 93 | 5,828 |
| New Smyrna Beach | 24,131 | 2,210 | 137 | 1,083 | 27,561 |
| Newberry | 1,465 | 167 | 39 | 103 | 1,774 |
| Ocala Electric Utility | 41,360 | 7,428 | 1,034 | 365 | 50,187 |
| Orlando Utilities Commission * | 201,425 | 23,991 | 5,813 | 68,950 | 300,179 |
| Quincy | 3,920 | 761 | 1 | 101 | 4,783 |
| Reedy Creek Improvement District | 9 | 1,374 | 0 | 80 | 1,463 |
| Starke | 2,047 | 732 | 0 | 0 | 2,779 |
| Tallahassee | 100,003 | 14,926 | 0 | 4,076 | 119,005 |
| Vero Beach | 29,140 | 5,365 | 1 | 387 | 34,893 |
| Wauchula | 2,225 | 506 | 0 | 67 | 2,798 |
| Williston | 1,162 | 388 | 3 | 154 | 1,707 |
| Winter Park | 12,265 | 2,682 | 0 | 0 | 14,947 |
| Total Municipal | 1,247,474 | 172,370 | 9,823 | 89,399 | 1,519,066 |
| Rural Electric Cooperative | | | | | |
| Central Florida Electric | 30,087 | 2,199 | 409 | 481 | 33,176 |
| Choctawhatchee Electric | 42,629 | 6,046 | 0 | 0 | 48,675 |
| Clay Electric | 153,617 | 19,193 | 29 | 22 | 172,861 |
| Escambia River Electric | 9,400 | 1,275 | 6 | 19 | 10,700 |
| Florida Keys Electric | 27,004 | 5,205 | 498 | 16 | 32,723 |
| Glades Electric | 12,521 | 3,546 | 300 | 1 | 16,368 |
| Gulf Coast Electric | 19,139 | 908 | 11 | 507 | 20,565 |
| Lee County Electric | 193,355 | 18,124 | 0 | 206 | 211,685 |
| Okefenoke Rural Electric ** | 9,593 | 520 | 1 | 75 | 10,189 |
| Peace River Electric | 33,224 | 7,006 | 3 | 63 | 40,296 |
| Sumter Electric | 177,921 | 15,795 | 1,220 | 28 | 194,964 |
| Suwannee Valley Electric | 22,314 | 3,237 | 9 | 88 | 25,648 |
| Talquin Electric | 49,647 | 3,293 | 4 | 649 | 53,593 |
| Tri-County Electric | 16,131 | 1,529 | 272 | 0 | 17,932 |
| West Florida Electric | 25,042 | 2,682 | 1 | 622 | 28,347 |
| Withlacoochee River Electric | 190,432 | 20,355 | 24 | 432 | 211,243 |
| Total Rural Electric Cooperative | 1,012,056 | 110,913 | 2,787 | 3,209 | 1,128,965 |
| Respondent Total *** | 9,197,125 | 1,134,458 | 28,513 | 134,696 | 10,494,792 |
| FRCC State Total | 8,786,683 | 1,091,505 | 23,035 | N/A | 9,901,223 |

* St. Cloud is served by Orlando Utilities Commission.

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

*** Respondent total includes sales to other public authorities; therefore, respondent totals are not comparable to FRCC totals. May not add to total due to rounding.

Source: Florida Reliability Coordinating Council, Regional Load and Resource Plan, State Supplement (July 2017), FRCC Form 4.0, p. S-2; Responses to staff data request.

Table 34

**Investor-Owned Utilities: Customer Count and Population
2016-2026**

| Utility | Year | Residential | Commercial | Industrial | Other | Total Customers | Population |
|-------------------------------|--------|-------------|------------|------------|--------|-----------------|------------|
| Duke Energy Florida, LLC | 2016 | 1,559,248 | 172,503 | 2,148 | 26,117 | 1,760,016 | 3,871,784 |
| | 2021 * | 1,682,926 | 186,820 | 2,046 | 26,968 | 1,898,760 | 4,113,548 |
| | 2026 * | 1,800,421 | 199,897 | 1,972 | 27,961 | 2,030,251 | 4,317,059 |
| Florida Power & Light Company | 2016 | 4,309,280 | 543,850 | 11,884 | 4,026 | 4,869,040 | 9,691,064 |
| | 2021 * | 4,589,372 | 571,926 | 13,245 | 4,365 | 5,178,908 | 10,386,084 |
| | 2026 * | 4,887,060 | 599,945 | 13,355 | 4,712 | 5,505,072 | 11,055,012 |
| Gulf Power Company | 2016 | 398,501 | 56,091 | 254 | 569 | 455,415 | 953,180 |
| | 2021 * | 419,169 | 58,060 | 252 | 617 | 478,098 | 1,031,160 |
| | 2026 * | 434,618 | 59,532 | 252 | 617 | 495,019 | 1,103,320 |
| Tampa Electric Company | 2016 | 646,221 | 74,313 | 1,615 | 8,354 | 730,503 | 1,352,797 |
| | 2021 * | 707,020 | 78,097 | 1,701 | 8,682 | 795,500 | 1,491,254 |
| | 2026 * | 762,788 | 81,130 | 1,757 | 9,070 | 854,745 | 1,615,661 |

* Projected.

Prices

Typical Electric Bill Comparison - Residential Charges *
December 31, 2016

| Investor-Owned | Minimum Bill or Customer Charge | 100 KWh | 250 KWh | 500 KWh | 750 KWh | 1,000 KWh | 1,500 KWh |
|----------------------------------|---------------------------------|---------|---------|---------|---------|-----------|-----------|
| Duke Energy Florida, LLC | \$8.76 | \$18.73 | \$33.70 | \$58.64 | \$83.55 | \$108.48 | \$170.17 |
| Florida Power & Light Company | 7.87 | 16.01 | 28.22 | 48.59 | 68.93 | 89.27 | 140.61 |
| Florida Public Utilities Company | | | | | | | |
| Northwest Division | 14.00 | 26.29 | 44.71 | 75.42 | 106.12 | 136.83 | 210.75 |
| Northeast Division | 14.00 | 26.29 | 44.71 | 75.42 | 106.12 | 136.83 | 210.75 |
| Gulf Power Company | 18.60 | 29.97 | 47.00 | 75.41 | 103.80 | 132.19 | 189.00 |
| Tampa Electric Company | 15.00 | 23.85 | 37.15 | 59.29 | 81.43 | 103.56 | 157.85 |

* 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, 2016

| Municipal | Minimum Bill or Customer Charge | 100 KWh | 250 KWh | 500 KWh | 750 KWh | 1,000 KWh | 1,500 KWh |
|----------------------------------|---------------------------------|---------|---------|---------|---------|-----------|-----------|
| Alachua | \$9.14 | \$19.58 | \$35.24 | \$61.34 | \$87.44 | \$113.54 | \$170.84 |
| Bartow | 8.00 | 19.74 | 37.35 | 66.68 | 96.03 | 125.36 | 184.04 |
| Beaches Energy Services | 3.50 | 15.39 | 33.21 | 62.93 | 92.64 | 122.35 | 181.78 |
| Blountstown | 7.40 | 18.47 | 35.06 | 62.73 | 90.39 | 118.05 | 173.38 |
| Bushnell | 6.50 | 17.07 | 32.92 | 59.34 | 85.76 | 112.19 | 165.03 |
| Chattahoochee | 6.50 | 16.34 | 31.12 | 55.72 | 80.34 | 104.94 | 154.16 |
| Clewiston | 12.96 | 24.12 | 40.86 | 68.76 | 96.66 | 124.56 | 180.36 |
| Fort Meade | 6.01 | 15.93 | 30.82 | 55.62 | 80.43 | 107.84 | 162.66 |
| Fort Pierce Utilities Authority | 14.25 | 25.55 | 42.50 | 70.75 | 99.00 | 130.40 | 197.40 |
| Gainesville Regional Utilities | 12.00 | 22.30 | 37.75 | 63.50 | 89.25 | 115.00 | 168.50 |
| Green Cove Springs | 6.00 | 15.42 | 29.56 | 53.10 | 76.66 | 100.20 | 147.30 |
| Havana | 5.60 | 16.46 | 32.76 | 59.92 | 87.07 | 114.23 | 168.55 |
| Homestead | 5.50 | 15.80 | 31.26 | 57.00 | 82.76 | 108.50 | 160.00 |
| JEA | 4.50 | 15.84 | 32.85 | 61.21 | 89.56 | 117.91 | 174.62 |
| Keys Energy Services | 15.03 | 25.56 | 41.35 | 67.68 | 94.00 | 120.33 | 172.98 |
| Kissimmee Utility Authority | 10.17 | 19.01 | 32.27 | 54.37 | 76.47 | 98.57 | 149.10 |
| Lake Worth Utilities | 10.53 | 20.95 | 36.58 | 62.63 | 88.68 | 114.73 | 166.83 |
| Lakeland Electric | 9.50 | 18.28 | 31.44 | 53.39 | 75.33 | 97.27 | 143.97 |
| Leesburg | 12.30 | 21.58 | 35.50 | 58.69 | 81.89 | 105.09 | 162.48 |
| Moore Haven | 8.50 | 17.79 | 31.73 | 54.95 | 78.18 | 101.40 | 147.85 |
| Mount Dora | 8.95 | 18.91 | 33.84 | 58.73 | 83.63 | 108.52 | 158.30 |
| New Smyrna Beach | 5.65 | 15.57 | 30.43 | 55.22 | 80.00 | 104.78 | 154.35 |
| Newberry | 7.50 | 19.00 | 36.25 | 65.00 | 93.75 | 122.50 | 180.00 |
| Ocala Electric Utility | 9.33 | 19.46 | 34.66 | 59.99 | 85.31 | 110.64 | 161.30 |
| Orlando Utilities Commission ** | 8.00 | 17.80 | 32.51 | 57.00 | 81.51 | 106.00 | 165.00 |
| Quincy | 6.00 | 16.55 | 32.38 | 58.76 | 85.14 | 111.51 | 164.27 |
| Reedy Creek Improvement District | 2.85 | 12.96 | 28.13 | 53.39 | 78.67 | 103.93 | 154.47 |
| St. Cloud | 8.32 | 18.52 | 33.80 | 59.29 | 84.76 | 110.24 | 171.61 |
| Starke | 0.00 | 10.99 | 27.47 | 54.95 | 82.41 | 109.88 | 172.60 |
| Tallahassee | 7.41 | 17.24 | 31.99 | 56.57 | 81.15 | 105.72 | 154.88 |
| Vero Beach | 8.33 | 19.11 | 35.27 | 62.21 | 89.15 | 116.08 | 169.96 |
| Wauchula | 9.10 | 18.74 | 33.20 | 57.30 | 81.40 | 105.50 | 153.70 |
| Williston | 8.00 | 17.36 | 31.41 | 54.82 | 78.23 | 101.64 | 148.46 |
| Winter Park | 9.55 | 18.85 | 32.80 | 56.05 | 79.30 | 102.54 | 159.99 |

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

** St. Cloud is served by Orlando Utilities Commission.

Typical Electric Bill Comparison - Residential Charges *
December 31, 2016

| 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 | \$24.00 | \$34.00 | \$49.00 | \$74.00 | \$99.00 | \$124.00 | \$185.50 |
| Choctawhatchee Electric | 26.00 | 35.09 | 48.72 | 71.44 | 94.16 | 116.87 | 162.31 |
| Clay Electric | 20.00 | 28.99 | 42.48 | 64.95 | 87.43 | 109.90 | 164.25 |
| Escambia River Electric | 30.00 | 40.60 | 56.50 | 83.00 | 109.50 | 136.00 | 189.00 |
| Florida Keys Electric | 30.00 | 36.72 | 46.81 | 63.62 | 80.43 | 97.24 | 147.36 |
| Glades Electric | 45.00 | 53.35 | 65.88 | 86.75 | 107.63 | 128.50 | 189.00 |
| Gulf Coast Electric | 30.00 | 38.71 | 51.78 | 73.55 | 95.33 | 117.10 | 160.65 |
| Lee County Electric | 15.00 | 23.75 | 36.88 | 56.15 | 79.33 | 102.50 | 154.20 |
| Okefenokee Rural Electric | 25.00 | 34.17 | 47.93 | 70.85 | 93.78 | 116.70 | 165.90 |
| Peace River Electric | 26.50 | 36.51 | 51.52 | 76.53 | 101.54 | 126.56 | 186.59 |
| Sumter Electric | 20.00 | 29.26 | 43.15 | 66.30 | 89.45 | 112.60 | 168.90 |
| Suwannee Valley Electric | 25.00 | 34.60 | 49.00 | 73.00 | 97.00 | 121.00 | 179.70 |
| Talquin Electric | 30.00 | 39.35 | 53.38 | 76.75 | 100.13 | 123.50 | 181.05 |
| Tri-County Electric | 22.00 | 32.50 | 48.25 | 74.50 | 100.75 | 127.00 | 189.50 |
| West Florida Electric | 24.95 | 35.00 | 50.07 | 75.20 | 100.32 | 125.44 | 185.46 |
| Withlacoochee River Electric | 30.00 | 39.00 | 52.49 | 74.99 | 97.48 | 119.97 | 166.09 |

* 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, 2016

| 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 | \$1,315 | \$3,465 | \$11,523 | \$28,682 | \$57,352 |
| Florida Power & Light Company | 1,513 | 3,718 | 12,378 | 28,928 | 56,755 |
| Florida Public Utilities Company | | | | | |
| Northwest Division | 1,890 | 5,256 | 17,407 | 44,434 | 88,738 |
| Northeast Division | 1,890 | 5,256 | 17,407 | 44,434 | 88,738 |
| Gulf Power Company | 1,714 | 4,555 | 15,118 | 35,991 | 71,718 |
| Tampa Electric Company | 1,665 | 4,154 | 13,777 | 33,212 | 66,394 |

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

Table 36, Page 2 of 3

Typical Electric Bill Comparison - Commercial and Industrial Charges *
December 31, 2016

| 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 | \$1,814.00 | \$4,799.00 | \$15,891.00 | \$39,846.00 | \$79,646.00 |
| Bartow | 2,034.00 | 5,460.00 | 18,154.00 | 45,434.00 | 90,848.00 |
| Beaches Energy Services | 2,140.00 | 5,751.00 | 19,133.00 | 48,160.00 | 96,304.00 |
| Blountstown | 2,004.00 | 5,997.00 | 19,975.00 | 53,255.00 | 106,503.00 |
| Bushnell | 1,985.00 | 5,350.00 | 17,780.00 | 44,893.00 | 89,763.00 |
| Chattahoochee | 2,009.00 | 5,223.00 | 17,353.00 | 44,560.00 | 89,094.00 |
| Clewiston | 1,713.00 | 4,786.00 | 15,858.00 | 41,018.00 | 81,994.00 |
| Fort Meade | 1,901.00 | 5,442.00 | 18,042.00 | 44,902.00 | 89,762.00 |
| Fort Pierce Utilities Authority | 1,724.00 | 4,586.00 | 17,184.00 | 41,381.00 | 82,723.00 |
| Gainesville Regional Utilities | 2,388.00 | 6,325.00 | 20,850.00 | 51,250.00 | 102,150.00 |
| Green Cove Springs | 1,903.00 | 4,970.00 | 16,450.00 | 38,125.00 | 76,025.00 |
| Havana | 1,419.00 | 4,245.00 | 14,136.00 | 37,686.00 | 75,366.00 |
| Homestead | 1,919.00 | 5,209.00 | 17,280.00 | 43,898.00 | 87,760.00 |
| JEA | 1,715.00 | 4,345.00 | 14,286.00 | 35,567.00 | 70,799.00 |
| Keys Energy Services | 2,011.00 | 5,209.00 | 17,144.00 | 42,744.00 | 85,394.00 |
| Kissimmee Utility Authority | 1,724.00 | 4,393.00 | 14,513.00 | 35,646.00 | 71,236.00 |
| Lake Worth Utilities | 2,325.00 | 6,124.00 | 20,226.00 | 50,736.00 | 101,392.00 |
| Lakeland Electric | 1,475.00 | 3,756.00 | 12,826.00 | 30,457.00 | 60,534.00 |
| Leesburg | 1,791.00 | 4,271.00 | 14,594.00 | 33,498.00 | 69,964.00 |
| Moore Haven | 1,708.00 | 4,379.00 | 14,519.00 | 35,644.00 | 71,254.00 |
| Mount Dora | 1,361.00 | 3,675.00 | 12,202.00 | 30,871.00 | 61,721.00 |
| New Smyrna Beach | 1,855.00 | 4,992.00 | 15,686.00 | 39,606.00 | 79,178.00 |
| Newberry | 2,007.00 | 5,241.00 | 17,435.00 | 41,045.00 | 82,045.00 |
| Ocala Electric Utility | 1,618.00 | 4,360.00 | 14,801.00 | 36,678.00 | 73,332.00 |
| Orlando Utilities Commission ** | 1,602.00 | 4,147.00 | 13,753.00 | 33,247.00 | 66,419.00 |
| Quincy | 1,451.00 | 3,933.00 | 12,970.00 | 33,152.00 | 61,683.00 |
| Reedy Creek Improvement District | 1,535.00 | 4,070.00 | 13,521.00 | 33,824.00 | 67,628.00 |
| St. Cloud | 1,666.00 | 4,313.00 | 14,303.00 | 34,578.00 | 69,078.00 |
| Starke | 1,868.00 | 5,586.00 | 18,599.00 | 49,581.00 | 99,153.00 |
| Tallahassee | 1,806.00 | 4,318.00 | 14,146.00 | 33,331.00 | 66,593.00 |
| Vero Beach | 1,798.00 | 4,980.00 | 16,507.00 | 42,470.00 | 84,900.00 |
| Wauchula | 1,720.00 | 4,621.00 | 15,250.00 | 38,735.00 | 77,405.00 |
| Williston | 1,567.00 | 4,275.00 | 13,970.00 | 35,170.00 | 70,290.00 |
| Winter Park | 1,394.00 | 3,812.00 | 12,675.00 | 32,247.00 | 64,481.00 |

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

** St. Cloud is served by Orlando Utilities Commission.

Typical Electric Bill Comparison - Commercial and Industrial Charges *
December 31, 2016

| | 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 |
|------------------------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|
| Rural Electric Cooperative | | | | | |
| Central Florida Electric | \$1,925 | \$4,997 | \$16,424 | \$40,549 | \$80,999 |
| Choctawhatchee Electric | 1,450 | 3,809 | 11,958 | 30,179 | 60,315 |
| Clay Electric | 1,567 | 4,216 | 13,865 | 35,390 | 67,285 |
| Escambia River Electric | 1,993 | 5,240 | 17,350 | 43,350 | 86,650 |
| Florida Keys Electric | 1,431 | 4,142 | 13,637 | 36,226 | 72,378 |
| Glades Electric | 2,025 | 5,175 | 16,900 | 42,150 | 84,150 |
| Gulf Coast Electric | 1,831 | 4,419 | 14,635 | 35,743 | 71,443 |
| Lee County Electric | 1,533 | 4,019 | 12,369 | 30,054 | 60,084 |
| Okefenoke Rural Electric | 1,652 | 4,159 | 13,535 | 33,560 | 66,980 |
| Peace River Electric | 1,816 | 4,579 | 14,463 | 35,098 | 70,046 |
| Sumter Electric | 1,550 | 4,108 | 13,565 | 34,165 | 68,275 |
| Suwannee Valley Electric | 1,733 | 4,637 | 15,460 | 38,010 | 75,770 |
| Talquin Electric | 1,656 | 4,585 | 15,470 | 35,392 | 70,484 |
| Tri-County Electric | 1,935 | 4,830 | 15,750 | 38,750 | 77,350 |
| West Florida Electric | 1,759 | 4,801 | 15,885 | 43,708 | 87,316 |
| Withlacoochee River Electric | 1,484 | 3,931 | 13,022 | 32,667 | 65,299 |

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

Economic and Financial Indicators

Table 37

**Population
(Thousands)
2007-2016**

| Year | Florida Population | National Population |
|--|--------------------|---------------------|
| 2007 | 18,278 | 301,580 |
| 2008 | 18,424 | 304,375 |
| 2009 | 18,538 | 307,007 |
| 2010 | 18,839 | 309,330 |
| 2011 | 19,058 | 311,592 |
| 2012 | 19,074 | 314,917 |
| 2013 | 19,553 | 316,129 |
| 2014 | 19,893 | 318,857 |
| 2015 | 20,271 | 321,419 |
| 2016 | 20,612 | 323,128 |
| Compound Annual Growth Rate, 2007-2016 | 1.34% | 0.77% |
| Compound Annual Growth Rate, 2012-2016 | 1.96% | 0.65% |

Source: U.S. Census Bureau, State & County Quick Facts (July 2017), 2016 Population estimate. Retrieved from <http://quickfacts.census.gov/qfd/states/12000.html>

Table 38

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

| Year | Florida Population | National Population |
|--|--------------------|---------------------|
| 2020 | 21,439 | 334,503 |
| 2030 | 24,244 | 359,402 |
| 2040 | 26,426 | 380,219 |
| Compound Annual Growth Rate, 2020-2040 | 1.11% | 0.68% |

Sources: The Office of Economic & Demographic Research (April 2017), 2016 State and County Projections: 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 (July 2017), 2014 National Population Projections: Summary Tables, Projections of the Population and Components of Change for the United States (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
2007-2016**

| Year | All Urban Consumers |
|------|---------------------|
| 2007 | 2.8% |
| 2008 | 3.8 |
| 2009 | -0.4 |
| 2010 | 1.6 |
| 2011 | 3.2 |
| 2012 | 2.1 |
| 2013 | 1.5 |
| 2014 | 1.6 |
| 2015 | 1.0 |
| 2016 | 1.3 |

Source: U.S. Government Publishing Office, Economic Indicators (January 2017), 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
2007-2016**

| Year | All Items | Energy Total * |
|------|-----------|----------------|
| 2007 | 207.3 | 200.6 |
| 2008 | 215.3 | 220.0 |
| 2009 | 214.5 | 211.0 |
| 2010 | 218.1 | 214.2 |
| 2011 | 224.9 | 220.4 |
| 2012 | 229.6 | 219.0 |
| 2013 | 233.0 | 224.0 |
| 2014 | 236.7 | 243.5 |
| 2015 | 237.0 | 202.9 |
| 2016 | 240.0 | 189.5 |

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

Source: U.S. Government Publishing Office, Economic Indicators (January 2017), 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
2007-2016**

| Year | Finished Goods | Capital Equipment |
|------|----------------|-------------------|
| 2007 | 166.6 | 149.5 |
| 2008 | 177.1 | 153.8 |
| 2009 | 172.5 | 156.7 |
| 2010 | 179.8 | 157.3 |
| 2011 | 190.5 | 159.7 |
| 2012 | 194.2 | 162.8 |
| 2013 | 196.1 | 165.3 |
| 2014 | 191.9 | 167.7 |
| 2015 | 189.8 | 169.3 |
| 2016 | 195.6 | 170.6 |

Source: U.S. Department of Labor, Bureau of Labor and Statistics (January 2017),
 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.

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.

Capacity Continued

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

Installed Generating – See **Nameplate Rating**.

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

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

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

Reserve:

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

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

Margin of – See **Capability Margin**.

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

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

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

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

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

Sales to Ultimate Customers: *

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

Sales for Resale (Other Electric Utilities):

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

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

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

| 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 be owned by an individual proprietor or a small group of people, are usually corporations owned by the general public.

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

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

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

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

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

Average – See **Demand, Average**.

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

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

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

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

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

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

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

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

Loss (Losses) Continued

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Renewable Generation Capacity – See **Capacity**.

Reserve Capacity – See **Capacity**.

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

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

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

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

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

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

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

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

System Load – See **Demand**.

System Loss – See **Loss (Losses)**.

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

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

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

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

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

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

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

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

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

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