



Dianne M. Triplett
ASSOCIATE GENERAL COUNSEL

February 28, 2017

VIA ELECTRONIC FILING

Ms. Carlotta Stauffer, Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: Demand Side Management Annual Report for Calendar Year 2016; Undocketed

Dear Ms. Stauffer:

In accordance with Rule 25-17.0021(5), Florida Administrative Code, attached please find for filing Duke Energy Florida, LLC's Demand Side Management Annual Report for the year 2016.

Thank you for your assistance in this matter. Please feel free to call me at (727) 820-4692 should you have any questions concerning this filing.

Respectfully,

/s/ Dianne M. Triplett

Dianne M. Triplett
Associate General Counsel

DMT/db
Attachment

cc: Trip Coston, FPSC Division of Economics
Judy Harlow, FPSC Division of Economics

DUKE ENERGY FLORIDA, LLC (DEF)
SUMMARY OF 2016 DEMAND SIDE MANAGEMENT ACHIEVEMENTS

The Commission Approved Goals for 2015-2024 presented in the “Comparison of Cumulative Achieved MW & GWH Reductions with Public Service Commission Established Goals” represent DEF’s annual DSM goals as established by the Commission in Order PSC-14-0696-FOF-EU.

The Total Achievements represent the actual MW and GWH savings achieved in each of the respective years. The achievements are based on the programs and the measures included in the 2015 DSM Program Plan (Plan) that was approved by the Commission (Docket 150083, PSC 15-0332-PAA-EG) on August 20, 2015.

DEF significantly exceeded the Commission approved 2016 winter MW, summer MW and GWH goals in total for the residential and commercial sector combined. DEF overachieved each of the goals for the commercial sector and also overachieved the residential summer MW and GWH goal, but slightly missed the residential winter MW goal by 1 MW. The shortfall on the residential winter MW goal was primarily due to lower than anticipated new program participants and impacts from the residential demand response program.

DEF performed 32,172 home energy audits in 2016 resulting in incentives to residential customers for the installation of 33,128 energy efficiency measures. DEF added 8,642 residential customers to its residential demand response program. DEF also supported residential low income customers through the installation of energy efficiency measures in the homes of 4,752 customers through its Neighborhood Energy Saver Program and in the homes of 392 customers through its Low Income Weatherization Assistance Program.

DEF exceeded the 2016 commercial summer MW, winter MW and GWH goals. DEF performed 699 commercial energy audits and provided incentives to commercial customers for 760 energy efficiency measures through its commercial Better Business program. DEF also added 147 commercial customers to its Non-Emergency Stand-By Generation program.

DEF continues to aggressively promote and market its energy conservation programs to customers through a variety of channels including direct mail, e-mail, bill inserts, web promotions, and radio and television advertising. DEF also participates in home shows, trade shows, community events, and works through trade allies to promote programs and provide education about energy efficiency to customers.

**DUKE ENERGY FLORIDA
2016**

**COMPARISON OF CUMULATIVE ACHIEVED MW & GWH REDUCTIONS at the Generator
PUBLIC SERVICE COMMISSION ESTABLISHED GOALS ORDER PSC-14-0696-FOF-EU**

| RESIDENTIAL | | | | | | | | | |
|--------------------|--|-----------------------|-------------------|--|-----------------------|-------------------|--|-----------------------|-------------------|
| YEAR | WINTER PEAK MW REDUCTION COMMISSION | | | SUMMER PEAK MW REDUCTION COMMISSION | | | GWH ENERGY REDUCTION COMMISSION | | |
| | TOTAL ACHIEVED** | APPROVED GOAL* | % VARIANCE | TOTAL ACHIEVED** | APPROVED GOAL* | % VARIANCE | TOTAL ACHIEVED** | APPROVED GOAL* | % VARIANCE |
| 2015 | 41 | 58 | -29% | 25 | 26 | -4% | 39 | 26 | 55% |
| 2016 | 94 | 112 | -16% | 55 | 50 | 10% | 87 | 49 | 76% |
| 2017 | | 160 | | | 73 | | | 70 | |
| 2018 | | 203 | | | 93 | | | 87 | |
| 2019 | | 241 | | | 110 | | | 100 | |
| 2020 | | 273 | | | 126 | | | 109 | |
| 2021 | | 301 | | | 140 | | | 116 | |
| 2022 | | 325 | | | 152 | | | 119 | |
| 2023 | | 348 | | | 163 | | | 121 | |
| 2024 | | 369 | | | 174 | | | 123 | |

| COMMERCIAL / INDUSTRIAL | | | | | | | | | |
|--------------------------------|--|-----------------------|-------------------|--|-----------------------|-------------------|--|-----------------------|-------------------|
| YEAR | WINTER PEAK MW REDUCTION COMMISSION | | | SUMMER PEAK MW REDUCTION COMMISSION | | | GWH ENERGY REDUCTION COMMISSION | | |
| | TOTAL ACHIEVED** | APPROVED GOAL* | % VARIANCE | TOTAL ACHIEVED** | APPROVED GOAL* | % VARIANCE | TOTAL ACHIEVED** | APPROVED GOAL* | % VARIANCE |
| 2015 | 28 | 5 | 411% | 35 | 12 | 191% | 36 | 15 | 150% |
| 2016 | 100 | 11 | 821% | 120 | 24 | 409% | 64 | 28 | 127% |
| 2017 | | 16 | | | 35 | | | 40 | |
| 2018 | | 22 | | | 45 | | | 50 | |
| 2019 | | 27 | | | 54 | | | 58 | |
| 2020 | | 32 | | | 62 | | | 64 | |
| 2021 | | 37 | | | 69 | | | 68 | |
| 2022 | | 41 | | | 75 | | | 70 | |
| 2023 | | 46 | | | 80 | | | 72 | |
| 2024 | | 51 | | | 85 | | | 72 | |

| Total | | | | | | | | | |
|--------------|--|-----------------------|-------------------|--|-----------------------|-------------------|--|-----------------------|-------------------|
| YEAR | WINTER PEAK MW REDUCTION COMMISSION | | | SUMMER PEAK MW REDUCTION COMMISSION | | | GWH ENERGY REDUCTION COMMISSION | | |
| | TOTAL ACHIEVED** | APPROVED GOAL* | % VARIANCE | TOTAL ACHIEVED** | APPROVED GOAL* | % VARIANCE | TOTAL ACHIEVED** | APPROVED GOAL* | % VARIANCE |
| 2015 | 69 | 64 | 8% | 60 | 38 | 57% | 76 | 40 | 89% |
| 2016 | 193 | 122 | 58% | 176 | 74 | 137% | 151 | 77 | 94% |
| 2017 | | 177 | | | 107 | | | 110 | |
| 2018 | | 225 | | | 137 | | | 137 | |
| 2019 | | 267 | | | 164 | | | 158 | |
| 2020 | | 305 | | | 188 | | | 173 | |
| 2021 | | 337 | | | 208 | | | 183 | |
| 2022 | | 367 | | | 227 | | | 190 | |
| 2023 | | 394 | | | 243 | | | 193 | |
| 2024 | | 419 | | | 259 | | | 195 | |

*2015-2024 Goals are based on ORDER NO. PSC-14-0696-FOF-EU issued December 16, 2014
Figures are rounded to the nearest whole number and are at the Generator

DUKE ENERGY FLORIDA
2016
COMPARISON OF ANNUAL ACHIEVED MW & GWH REDUCTIONS BASED ON PSC-14-0696-FOF-EU
WITH PUBLIC SERVICE COMMISSION ESTABLISHED ANNUAL GOALS*

| RESIDENTIAL | | | | | | | | | |
|-------------|-------------------------------------|----------------|------------|-------------------------------------|----------------|------------|---------------------------------|----------------|------------|
| YEAR | WINTER PEAK MW REDUCTION COMMISSION | | | SUMMER PEAK MW REDUCTION COMMISSION | | | GWH ENERGY REDUCTION COMMISSION | | |
| | TOTAL ACHIEVED | APPROVED GOAL* | % VARIANCE | TOTAL ACHIEVED | APPROVED GOAL* | % VARIANCE | TOTAL ACHIEVED | APPROVED GOAL* | % VARIANCE |
| 2015 | 41 | 58 | -29% | 25 | 26 | -4% | 39 | 26 | 55% |
| 2016 | 52 | 53 | -1% | 30 | 24 | 25% | 47 | 24 | 99% |
| 2017 | | 49 | | | 22 | | | 21 | |
| 2018 | | 43 | | | 20 | | | 17 | |
| 2019 | | 38 | | | 18 | | | 13 | |
| 2020 | | 32 | | | 16 | | | 9 | |
| 2021 | | 28 | | | 14 | | | 6 | |
| 2022 | | 25 | | | 12 | | | 4 | |
| 2023 | | 22 | | | 11 | | | 2 | |
| 2024 | | 21 | | | 11 | | | 1 | |

| COMMERCIAL / INDUSTRIAL* | | | | | | | | | |
|--------------------------|-------------------------------------|----------------|------------|-------------------------------------|----------------|------------|---------------------------------|----------------|------------|
| YEAR | WINTER PEAK MW REDUCTION COMMISSION | | | SUMMER PEAK MW REDUCTION COMMISSION | | | GWH ENERGY REDUCTION COMMISSION | | |
| | TOTAL ACHIEVED | APPROVED GOAL* | % VARIANCE | TOTAL ACHIEVED | APPROVED GOAL* | % VARIANCE | TOTAL ACHIEVED | APPROVED GOAL* | % VARIANCE |
| 2015 | 28 | 5 | 411% | 35 | 12 | 191% | 36 | 15 | 150% |
| 2016 | 72 | 5 | 1232% | 85 | 12 | 635% | 28 | 14 | 103% |
| 2017 | | 6 | | | 11 | | | 12 | |
| 2018 | | 5 | | | 10 | | | 10 | |
| 2019 | | 5 | | | 9 | | | 8 | |
| 2020 | | 5 | | | 8 | | | 6 | |
| 2021 | | 5 | | | 7 | | | 4 | |
| 2022 | | 5 | | | 6 | | | 2 | |
| 2023 | | 5 | | | 6 | | | 1 | |
| 2024 | | 5 | | | 5 | | | 1 | |

| Total* | | | | | | | | | |
|--------|-------------------------------------|----------------|------------|-------------------------------------|----------------|------------|---------------------------------|----------------|------------|
| YEAR | WINTER PEAK MW REDUCTION COMMISSION | | | SUMMER PEAK MW REDUCTION COMMISSION | | | GWH ENERGY REDUCTION COMMISSION | | |
| | TOTAL ACHIEVED | APPROVED GOAL* | % VARIANCE | TOTAL ACHIEVED | APPROVED GOAL* | % VARIANCE | TOTAL ACHIEVED | APPROVED GOAL* | % VARIANCE |
| 2015 | 69 | 64 | 8% | 60 | 38 | 57% | 76 | 40 | 89% |
| 2016 | 124 | 59 | 113% | 115 | 36 | 224% | 75 | 37 | 100% |
| 2017 | | 54 | | | 33 | | | 33 | |
| 2018 | | 48 | | | 30 | | | 27 | |
| 2019 | | 43 | | | 27 | | | 21 | |
| 2020 | | 37 | | | 24 | | | 15 | |
| 2021 | | 33 | | | 21 | | | 10 | |
| 2022 | | 29 | | | 18 | | | 6 | |
| 2023 | | 27 | | | 17 | | | 4 | |
| 2024 | | 25 | | | 16 | | | 2 | |

*2015-2024 Goals are based on ORDER NO. PSC-14-0696-FOF-EU issued December 16, 2014
 Figures are rounded to the nearest whole number and are at the Generator

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Home Energy Check
 Program Start Date: 1991
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------|------------------------------------|---|---|--|--|--|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 1,520,916 | 1,456,095 | 35,706 | 2% | 30,901 | 30,901 | 2% | -4,805 |
| 2016 | 1,544,620 | 1,475,736 | 70,222 | 5% | 32,172 | 63,073 | 4% | -7,149 |
| 2017 | 1,568,452 | 1,498,230 | 102,589 | 7% | | | | |
| 2018 | 1,591,324 | 1,524,441 | 132,240 | 9% | | | | |
| 2019 | 1,612,908 | 1,550,890 | 159,041 | 10% | | | | |
| 2020 | 1,634,061 | 1,577,609 | 183,222 | 12% | | | | |
| 2021 | 1,654,509 | 1,603,523 | 205,252 | 13% | | | | |
| 2022 | 1,674,417 | 1,628,202 | 225,672 | 14% | | | | |
| 2023 | 1,693,168 | 1,650,717 | 244,991 | 15% | | | | |
| 2024 | 1,711,369 | 1,671,630 | 244,991 | 15% | | | | |

cols b,c,d,e are based on DEF's 2015 Program Plan approved by the Commission in Docket 150083

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 0.184 | 0.197 | 5,929 | 6,325 |
| Winter kW Reduction | 0.275 | 0.293 | 8,843 | 9,434 |
| Annual kWh Reduction | 659 | 703 | 21,190,080 | 22,605,409 |

Utility Cost per Installation: \$149
 Total Program Cost of the Utility (\$000): \$4,803
 Net Benefits of Measures Installed During Reporting Period (\$000): N/A

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Home Energy Improvement
 Program Start Date: 1996 with modifications approved in 2006 and 2015
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------------|---|---|--|--|--|---|---|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program/Measure Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program/Measure Participants | Actual Cumulative Number of Program/Measure Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 1,520,916 | 1,520,916 | 19,806 | 1% | 53,179 | 53,179 | 3% | 33,373 |
| 2016 | 1,544,620 | 1,544,620 | 37,827 | 2% | 33,128 | 86,307 | 6% | 48,480 |
| 2017 | 1,568,452 | 1,568,452 | 53,529 | 3% | | | | |
| 2018 | 1,591,324 | 1,591,324 | 66,300 | 4% | | | | |
| 2019 | 1,612,908 | 1,612,908 | 75,994 | 5% | | | | |
| 2020 | 1,634,061 | 1,634,061 | 82,864 | 5% | | | | |
| 2021 | 1,654,509 | 1,654,509 | 87,409 | 5% | | | | |
| 2022 | 1,674,417 | 1,674,417 | 90,216 | 5% | | | | |
| 2023 | 1,693,168 | 1,693,168 | 91,834 | 5% | | | | |
| 2024 | 1,711,369 | 1,711,369 | 92,705 | 5% | | | | |

cols b,c,d,e are based on DEF's 2015 Program Plan approved by the Commission in Docket 150083

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 0.29 | 0.31 | 9,501 | 10,136 |
| Winter kW Reduction | 0.53 | 0.57 | 17,654 | 18,833 |
| Annual kWh Reduction | 445 | 474 | 14,731,068 | 15,714,986 |

Utility Cost per Installation: \$267
 Total Program Cost of the Utility (\$000): \$8,850
 Net Benefits of Measures Installed During Reporting Period (\$000): \$1,596

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Low Income Weatherization Assistance
 Program Start Date: May 2000 with modifications approved in 2005 & 2015
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------|------------------------------------|---|---|--|--|--|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program/Measure Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program/Measure Participants | Actual Cumulative Number of Program/Measure Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 1,520,916 | 416,016 | 500 | 0% | 337 | 337 | 0% | -163 |
| 2016 | 1,544,620 | 423,836 | 1,000 | 0% | 392 | 729 | 0% | -271 |
| 2017 | 1,568,452 | 432,323 | 1,500 | 0% | | | | |
| 2018 | 1,591,324 | 440,980 | 2,000 | 0% | | | | |
| 2019 | 1,612,908 | 449,809 | 2,500 | 1% | | | | |
| 2020 | 1,634,061 | 458,815 | 3,000 | 1% | | | | |
| 2021 | 1,654,509 | 468,002 | 3,500 | 1% | | | | |
| 2022 | 1,674,417 | 477,372 | 4,000 | 1% | | | | |
| 2023 | 1,693,168 | 486,929 | 4,500 | 1% | | | | |
| 2024 | 1,711,369 | 496,678 | 5,000 | 1% | | | | |

cols b,c,d,e are based on DEF's 2015 Program Plan approved by the Commission in Docket 150083

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 0.80 | 0.85 | 312 | 333 |
| Winter kW Reduction | 1.40 | 1.49 | 548 | 584 |
| Annual kWh Reduction | 1,246 | 1,329 | 488,269 | 520,881 |

Utility Cost per Installation: \$747
 Total Program Cost of the Utility (\$000): \$293
 Net Benefits of Measures Installed During Reporting Period (\$000): \$25

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Neighborhood Energy Saver
 Program Start Date: 2007 with modifications approved in 2015
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------------|---|---|--|--|--|---|---|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 1,520,916 | 416,016 | 19,500 | 5% | 3,420 | 3,420 | 1% | -16,080 |
| 2016 | 1,544,620 | 419,836 | 39,000 | 9% | 19,786 | 23,206 | 6% | -15,794 |
| 2017 | 1,568,452 | 428,323 | 58,500 | 14% | | | | |
| 2018 | 1,591,324 | 436,980 | 78,000 | 18% | | | | |
| 2019 | 1,612,908 | 445,809 | 97,500 | 22% | | | | |
| 2020 | 1,634,061 | 454,815 | 102,000 | 22% | | | | |
| 2021 | 1,654,509 | 464,002 | 106,500 | 23% | | | | |
| 2022 | 1,674,417 | 473,372 | 111,000 | 23% | | | | |
| 2023 | 1,693,168 | 782,929 | 115,500 | 15% | | | | |
| 2024 | 1,711,369 | 492,678 | 120,000 | 24% | | | | |

cols b,c,d,e are based on DEF's 2015 Program Plan approved by the Commission in Docket 150083

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 0.15 | 0.16 | 3,011 | 3,212 |
| Winter kW Reduction | 0.21 | 0.22 | 4,066 | 4,338 |
| Annual kWh Reduction | 399 | 425 | 7,885,111 | 8,411,773 |

Utility Cost per Installation: \$120
 Total Program Cost of the Utility (\$000): \$2,365
 Net Benefits of Measures Installed During Reporting Period (\$000): \$68

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Solar Water Heat with EM*
 Program Start Date: 2011
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------|------------------------------------|---|--|--|--|---|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 1,520,916 | 1,257,901 | 300 | 0.0% | 295 | 295 | 0% | -5 |
| 2016 | 1,544,620 | 0 | 300 | - | 0 | 295 | - | -5 |

f Per FPSC direction, this program ended at year-end 2015.

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|--|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 0.00 | 0.00 | 0 | 0 |
| Winter kW Reduction | 0.00 | 0.00 | 0 | 0 |
| Annual kWh Reduction | 0 | 0 | 0 | 0 |

Utility Cost per Installation: NA
 Total Program Cost of the Utility (\$000): -\$4
 Net Benefits of Measures Installed During Reporting Period (\$000): N/A

*Program ended 12/31/2015. Credits in 2016 are associated with ongoing adjustments to load management incentives.

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Solar Water Heat Low Income*
 Program Start Date: 2011
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------|------------------------------------|---|---|--|--|--|---|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 1,520,916 | 740 | 30 | 4.05% | 25 | 25 | 3% | -5 |
| 2016 | 1,544,620 | 0 | 30 | - | 0 | 25 | - | -5 |

f Per FPSC direction, this program ended at year-end 2015.

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 0.00 | 0.00 | 0 | 0 |
| Winter kW Reduction | 0.00 | 0.00 | 0 | 0 |
| Annual kWh Reduction | 0 | 0 | 0 | 0 |

Utility Cost per Installation: NA
 Total Program Cost of the Utility (\$000): \$0
 Net Benefits of Measures Installed During Reporting Period (\$000): N/A

*Program ended 12/31/2015

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Residential Solar PV*
 Program Start Date: 2011
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------|------------------------------------|---|--|---|--|---|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants* | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 1,520,916 | 1,520,454 | 160 | 0.01% | 154 | 154 | 0% | -6 |
| 2016 | 1,544,620 | 0 | 160 | - | 0 | 154 | - | -6 |

f Per FPSC direction, this program ended at year-end 2015.

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 0.00 | 0.00 | 0 | 0 |
| Winter kW Reduction | 0.00 | 0.00 | 0 | 0 |
| Annual kWh Reduction | 0 | 0 | 0 | 0 |

Utility Cost per Installation: NA
 Total Program Cost of the Utility (\$000): -\$33
 Net Benefits of Measures Installed During Reporting Period (\$000): NA

**Program ended 12/31/2015
 2016 Program Costs are primarily related to an adjustment to a prior year accrual.*

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Residential Energy Management
 Program Start Date: January 1981 , revision approved May 2000, 2nd revision approved 2006, 3rd revision approved 2015
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------------|---|---|--|--|--|---|---|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 1,520,916 | 971,698 | 10,000 | 1.03% | 5,025 | 5,025 | 1% | -4,975 |
| 2016 | 1,544,620 | 986,842 | 18,700 | 1.89% | 8,634 | 13,659 | 1% | -5,041 |
| 2017 | 1,568,452 | 1,002,068 | 27,400 | 2.73% | | | | |
| 2018 | 1,591,324 | 1,016,681 | 36,100 | 3.55% | | | | |
| 2019 | 1,612,908 | 1,030,471 | 44,800 | 4.35% | | | | |
| 2020 | 1,634,061 | 1,043,985 | 53,500 | 5.12% | | | | |
| 2021 | 1,654,509 | 1,057,049 | 62,200 | 5.88% | | | | |
| 2022 | 1,674,417 | 1,069,768 | 70,900 | 6.63% | | | | |
| 2023 | 1,693,168 | 1,081,748 | 79,600 | 7.36% | | | | |
| 2024 | 1,711,369 | 1,093,377 | 88,300 | 8.08% | | | | |

cols b,c,d,e are based on DEF's 2015 Program Plan approved by the Commission in Docket 150083
 f Annual Number of Program Participants represents new accounts added to the program each year.

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 1.09 | 1.16 | 9,411 | 10,040 |
| Winter kW Reduction | 2.09 | 2.23 | 18,045 | 19,250 |
| Annual kWh Reduction | 0 | 0 | 0 | 0 |

Utility Cost per Installation: * \$102
 Total Program Cost of the Utility (\$000):** \$43,213
 Net Benefits of Measures Installed During Reporting Period (\$000): \$12,397

***Utility cost per Installation is based on the total, cumulative number of year-end participants.**

****Utility program costs for this program include incentives paid to eligible participants.**

Total Program Participants at end of Year 424,403

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Business Energy Check
 Program Start Date: 1991
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------|------------------------------------|---|---|--|--|--|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 171,935 | 167,335 | 2,500 | 1% | 1,486 | 1,486 | 1% | -1,014 |
| 2016 | 174,479 | 169,449 | 4,347 | 3% | 699 | 2,185 | 1% | -2,162 |
| 2017 | 177,027 | 172,680 | 6,027 | 3% | | | | |
| 2018 | 179,468 | 175,940 | 7,507 | 4% | | | | |
| 2019 | 181,752 | 178,592 | 8,822 | 5% | | | | |
| 2020 | 183,977 | 181,182 | 9,863 | 5% | | | | |
| 2021 | 186,117 | 183,761 | 10,550 | 6% | | | | |
| 2022 | 188,190 | 186,462 | 10,970 | 6% | | | | |
| 2023 | 190,125 | 189,018 | 11,220 | 6% | | | | |
| 2024 | 191,987 | 191,317 | 11,376 | 6% | | | | |

cols b,c,d,e are based on DEF's 2015 Program Plan approved by the Commission in Docket 150083

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 0.15 | 0.16 | 104 | 110 |
| Winter kW Reduction | 0.12 | 0.12 | 82 | 86 |
| Annual kWh Reduction | 787 | 828 | 550,192 | 578,631 |

Utility Cost per Installation: \$692
 Total Program Cost of the Utility (\$000): \$484
 Net Benefits of Measures Installed During Reporting Period (\$000): N/A

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Better Business
 Program Start Date: April 1996 with modifications approved in 2006, 2015 and 2016
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------------|---|---|--|--|--|---|---|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 171,935 | 171,935 | 2,089 | 1.21% | 1,030 | 1,030 | 1% | -1,059 |
| 2016 | 174,479 | 174,479 | 3,878 | 2.22% | 760 | 1,790 | 1% | -2,088 |
| 2017 | 177,027 | 177,027 | 5,437 | 3.07% | | | | |
| 2018 | 179,468 | 179,468 | 6,705 | 3.74% | | | | |
| 2019 | 181,752 | 181,752 | 7,668 | 4.22% | | | | |
| 2020 | 183,977 | 183,977 | 8,350 | 4.54% | | | | |
| 2021 | 186,117 | 186,117 | 8,801 | 4.73% | | | | |
| 2022 | 188,190 | 188,190 | 9,080 | 4.82% | | | | |
| 2023 | 190,125 | 190,125 | 9,241 | 4.86% | | | | |
| 2024 | 191,987 | 191,987 | 9,327 | 4.86% | | | | |

cols b,c,d,e are based on DEF's 2015 Program Plan approved by the Commission in Docket 150083

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 20.15 | 21.19 | 15,311 | 16,102 |
| Winter kW Reduction | 3.53 | 3.71 | 2,684 | 2,823 |
| Annual kWh Reduction | 33,384 | 35,110 | 25,371,947 | 26,683,390 |

Utility Cost per Installation: \$3,628
 Total Program Cost of the Utility (\$000): \$2,757
 Net Benefits of Measures Installed During Reporting Period (\$000): \$1,504

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Florida Custom Incentive Program (formerly Innovative Incentive)
 Program Start Date: 1991
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------------|---|---|--|--|--|---|---|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 171,935 | 171,935 | 10 | 0.01% | 7 | 7 | 0% | -3 |
| 2016 | 174,479 | 174,479 | 47 | 0.03% | 4 | 11 | 0% | -36 |
| 2017 | 177,027 | 177,027 | 82 | 0.05% | | | | |
| 2018 | 179,468 | 179,468 | 115 | 0.06% | | | | |
| 2019 | 181,752 | 181,752 | 146 | 0.08% | | | | |
| 2020 | 183,977 | 183,977 | 174 | 0.09% | | | | |
| 2021 | 186,117 | 186,117 | 199 | 0.11% | | | | |
| 2022 | 188,190 | 188,190 | 229 | 0.12% | | | | |
| 2023 | 190,125 | 190,125 | 254 | 0.13% | | | | |
| 2024 | 191,987 | 191,987 | 274 | 0.14% | | | | |

cols b,c,d,e are based on DEF's 2015 Program Plan approved by the Commission in Docket 150083

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 15.3 | 16.1 | 61 | 64 |
| Winter kW Reduction | 4.3 | 4.5 | 17 | 18 |
| Annual kWh Reduction | 24,813 | 26,095 | 99,250 | 104,380 |

Utility Cost per Installation: \$40,176
 Total Program Cost of the Utility (\$000): \$161
 Net Benefits of Measures Installed During Reporting Period (\$000): N/A

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Commercial Solar PV*
 Program Start Date: 2011
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------|------------------------------------|---|---|--|--|--|---|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 171,935 | 42,984 | 19 | 0.04% | 21 | 21 | 0% | 2 |
| 2016 | 171,935 | 42,963 | 0 | 0.00% | 1 | 22 | 0% | 22 |

f Although this program ended at the end of 12/31/2015, this installation was not processed until 2016.

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 16.0 | 16.8 | 16.0 | 16.8 |
| Winter kW Reduction | 0.00 | 0.00 | 0 | 0 |
| Annual kWh Reduction | 83,500 | 87,816 | 83,500 | 87,816 |

Utility Cost per Installation: \$0
 Total Program Cost of the Utility (\$000): \$0
 Net Benefits of Measures Installed During Reporting Period (\$000): N/A

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Photovoltaic for Schools Pilot*
 Program Start Date: 2011
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------|------------------------------------|---|---|--|--|--|---|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 171,935 | 65 | 9 | 13.85% | 8 | 8 | 12% | -1 |
| 2016 | 171,935 | 57 | 9 | 15.79% | 6 | 14 | 25% | 5 |

f Although this program ended at the end of 12/31/2015, these installations were not processed until 2016.

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 2.50 | 2.63 | 20 | 21 |
| Winter kW Reduction | 0.00 | 0.00 | 0 | 0 |
| Annual kWh Reduction | 12,738 | 13,396 | 101,901 | 107,168 |

Utility Cost per Installation: \$2,498
 Total Program Cost of the Utility (\$000): \$20
 Net Benefits of Measures Installed During Reporting Period (\$000): N/A

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Commercial Energy Management
 Program Start Date: April 1996 - (Closed to new participants effective May 2000)
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------------|---|---|--|--|--|---|---|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 171,935 | 0 | 0 | 0% | 0 | 0 | 0% | 0 |
| 2016 | 174,479 | 0 | 0 | 0% | 0 | 0 | 0% | 0 |
| 2017 | 177,027 | | | | | | | |
| 2018 | 179,468 | | | | | | | |
| 2019 | 181,752 | | | | | | | |
| 2020 | 183,977 | | | | | | | |
| 2021 | 186,117 | | | | | | | |
| 2022 | 188,190 | | | | | | | |
| 2023 | 190,125 | | | | | | | |
| 2024 | 191,987 | | | | | | | |

cols b,c,d,e are based on DEF's 2015 Program Plan approved by the Commission in Docket 150083

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | --- | --- | 0.0 | 0.0 |
| Winter kW Reduction | --- | --- | 0.0 | 0.0 |
| Annual kWh Reduction | --- | --- | 0.0 | 0.0 |

Utility Cost per Installation: \$8,557
 Total Program Cost of the Utility (\$000): * \$539
 Net Benefits of Measures Installed During Reporting Period (\$000): N/A

***total customer accounts participating in this program is 63**

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Interruptible Service
 Program Start Date: November 1992 - (Rate Schedule IS-1 is closed to new customers, and IS-2 became effective June 1996.)
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------------|---|---|--|--|--|---|---|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 171,935 | 464 | 1 | 0.2% | 2 | 2 | 0% | 1 |
| 2016 | 174,479 | 472 | 2 | 0.4% | 1 | 3 | 1% | 1 |
| 2017 | 177,027 | 479 | 3 | 0.6% | | | | |
| 2018 | 179,468 | 485 | 4 | 0.8% | | | | |
| 2019 | 181,752 | 491 | 5 | 1.0% | | | | |
| 2020 | 183,977 | 497 | 6 | 1.2% | | | | |
| 2021 | 186,117 | 503 | 7 | 1.4% | | | | |
| 2022 | 188,190 | 509 | 8 | 1.6% | | | | |
| 2023 | 190,125 | 514 | 9 | 1.8% | | | | |
| 2024 | 191,987 | 519 | 10 | 1.9% | | | | |

cols b,c,d,e are based on DEF's 2015 Program Plan approved by the Commission in Docket 150083

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 950.0 | 999.1 | 950 | 999.1 |
| Winter kW Reduction | 950.0 | 999.1 | 950 | 999.1 |
| Annual kWh Reduction | 0.0 | 0.0 | 0 | 0.0 |

Utility Cost per Installation: * \$422,462
 Total Program Cost of the Utility (\$000): ** \$30,840
 Net Benefits of Measures Installed During Reporting Period (\$000): \$860

* **Utility cost per Installation is based on the total, cumulative number of year-end participants.**

** **Utility program costs for this program include incentives paid to eligible participants.**

Total NET Participants at end of Year

73

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Standby Generation
 Program Start Date: April 1993 with revisions approved 2006, 2015 and 2016
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------------|---|---|--|--|--|---|---|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants | Actual Cumulative Number of Program Participants | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 171,935 | 549 | 10 | 1.82% | 25 | 25 | 5% | 15 |
| 2016 | 174,479 | 557 | 20 | 3.59% | 147 | 172 | 31% | 152 |
| 2017 | 177,027 | 566 | 30 | 5.30% | | | | |
| 2018 | 179,468 | 574 | 40 | 6.97% | | | | |
| 2019 | 181,752 | 581 | 50 | 8.61% | | | | |
| 2020 | 183,977 | 592 | 60 | 10.14% | | | | |
| 2021 | 186,117 | 596 | 70 | 11.74% | | | | |
| 2022 | 188,190 | 602 | 80 | 13.29% | | | | |
| 2023 | 190,125 | 608 | 90 | 14.80% | | | | |
| 2024 | 191,987 | 614 | 100 | 16.29% | | | | |

cols b,c,d,e are based on DEF's 2015 Program Plan approved by the Commission in Docket 150083

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | 440 | 463 | 64,661 | 68,003 |
| Winter kW Reduction | 440 | 463 | 64,661 | 68,003 |
| Annual kWh Reduction | --- | --- | 0 | 0 |

Utility Cost per Installation: * \$44,588
 Total Program Cost of the Utility (\$000):** \$6,554
 Net Benefits of Measures Installed During Reporting Period (\$000): \$33,283

* **Utility cost per Installation is based on the total, cumulative number of year-end participants.**

** **Total program costs for this program include incentives paid to eligible participants.**

Total NET Participants at end of Year 147

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
 Program Name: Curtailable Service
 Program Start Date: November 1992 - (Rate Schedule CS-1 is closed to new customers, and CS-2 became effective June 1996.)
 Reporting Period: 2016

| a | b | c | d | e | f | g | h | i |
|------|---------------------------------|---|---|--|---|--|---|---|
| Year | Total Number of Customers | Total Number of Eligible Customers | Projected Cumulative Number of Program Participants | Projected Cumulative Penetration Level % [(d/c)x100] | Actual Annual Number of Program Participants* | Actual Cumulative Number of Program Participants** | Actual Cumulative Penetration Level % [(g/c)x100] | Actual Participation Over (Under) Projected Participants (g-d) |
| 2015 | 171,935 | 910 | 0 | 0.0% | 0 | 0 | 0% | 0 |
| 2016 | 174,479 | 925 | 0 | 0.0% | 0 | 0 | 0% | 0 |
| 2017 | 177,027 | 938 | 1 | 0.1% | | | | |
| 2018 | 179,468 | 951 | 1 | 0.1% | | | | |
| 2019 | 181,752 | 963 | 1 | 0.1% | | | | |
| 2020 | 183,977 | 975 | 2 | 0.2% | | | | |
| 2021 | 186,117 | 986 | 2 | 0.2% | | | | |
| 2022 | 188,190 | 997 | 2 | 0.2% | | | | |
| 2023 | 190,125 | 1,008 | 3 | 0.3% | | | | |
| 2024 | 191,987 | 1,018 | 3 | 0.3% | | | | |

cols b,c,d,e are based on DEF's 2015 Program Plan approved by the Commission in Docket 150083

| Annual Demand & Energy Savings (during the reporting period) | Per Installation | | Program Total | |
|---|------------------|-------------|---------------|-------------|
| | @ Meter | @ Generator | @ Meter | @ Generator |
| Summer kW Reduction | --- | --- | 0.0 | 0.0 |
| Winter kW Reduction | --- | --- | 0.0 | 0.0 |
| Annual kWh Reduction | --- | --- | 0.0 | 0.0 |

Utility Cost per Installation: * \$1,094,728
 Total Program Cost of the Utility (\$000): ** \$2,189
 Net Benefits of Measures Installed During Reporting Period (\$000): \$0

* **Utility cost per Installation is based on actual 2015 program costs divided by the number of accounts participating in this program.**

** **Utility program costs for this program include incentives paid to eligible participants.**

Total NET Participants at end of Year

2