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June 5, 2024

VIA ELECTRONIC FILING

Adam J. Teitzman
Office of Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, Florida 32399-0850

Re: Docket Nos. 20240012-EG (Florida Rising, LULAC, and ECOSWF), 20240013-EG (Florida Rising & LULAC only), 20240014-EG (Florida Rising and LULAC only), 20240016-EG (Florida Rising only), 20240017-EG (Florida Rising only), Commission Review of Numeric Conservation Goals

Dear Mr. Teitzman,

On behalf of Intervenors Florida Rising, League of United Latin American Citizens ("LULAC"), and Environmental Confederation of Southwest Florida ("ECOSWF"), I have enclosed the testimony and exhibits of MacKenzie D. Marcelin. Please file these documents in Docket Nos. 20240012-EG, 20240013-EG, 20240014-EG, 20240016-EG, 20240017-EG. Please contact me if there are any questions regarding this filing.

Sincerely,
/s/ Bradley Marshall
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CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true copy and correct copy of the foregoing was served on this 5th day of June, 2024, via electronic mail on:

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DATED this 5th day of June, 2024.

/s/ Bradley Marshall
Attorney

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Commission Review of Numeric Conservation Goals Florida Power & Light Company	))))	DOCKET NO. 20240012-EG
In re: Commission Review of Numeric Conservation Goals Duke Energy Florida, LLC	))))	DOCKET NO. 20240013-EG (Florida Rising and LULAC only)
In re: Commission Review of Numeric Conservation Goals Tampa Electric Company	))))	DOCKET NO. 20240014-EG (Florida Rising and LULAC only)
In re: Commission Review of Numeric Conservation Goals JEA	))))	DOCKET NO. 20240016-EG (Florida Rising only)
In re: Commission Review of Numeric Conservation Goals Orlando Utilities Commission	))))	DOCKET NO. 20240017-EG (Florida Rising only)

TESTIMONY OF MACKENZIE D. MARCELIN ON BEHALF OF FLORIDA RISING, LEAGUE OF UNITED LATIN AMERICAN CITIZENS, AND ENVIRONMENTAL CONFEDERATION OF SOUTHWEST FLORIDA

June 5, 2024

Q. Please state your name and business address.

A. My name is MacKenzie Marcelin. My business address is 10800 Biscayne Blvd Suite 1050, Miami, FL 33161.

Q. What is your current position?

A. I am the Climate Justice Director at Florida Rising.

Q. What are your duties as Climate Justice Director?

A. In my role I am responsible for developing campaign strategies that address the climate crisis from a racial justice lens at the local, state, and federal levels. I am also tasked with designing and implementing actions and events to mobilize base, allies, and partners toward key climate justice policy wins. Lastly, I develop and activate natural disaster response and manage disaster response initiative work.

Q. Please summarize your qualifications and work experience.

A. In 2019, I was hired as a climate justice organizer at Florida Rising where I began my organizing work in climate justice. My general qualifications include organizing for 6 years and organizing multiple energy justice campaigns. I have experienced electricity disconnections and know the hardships they can cause. I have personally experienced energy insecurity, and as a Floridian, have had to engage in preparation for multiple hurricanes. I have a Bachelor of Arts in History from the University of Florida, with a focus on the Black experience, race, and inequality. My litigation experience is limited, however, I have participated in a few dockets at the Florida Public Service Commission.

Q. Have you ever testified before the Florida Public Service Commission before?

A. Yes, I have participated in a few dockets at the Florida Public Service Commission advocating on behalf of Florida Rising's values of racial and economic justice and for Florida Rising's members, who are mostly black and brown, and are facing high energy burdens due to high electric bill costs. In Docket Nos. 20190015-EG, 20190016-EG, 20190018-EG, 20190020-EG, 20190021-EG, *In re: Commission review of numeric conservation goals*, I gave testimony to the importance of energy efficiency in helping customers lower energy bills, especially for low-income communities and communities of color. For more information, please see a transcript of my remarks here: http://www.psc.state.fl.us/library/filings/2019/08186-2019/08186-2019.pdf. In Docket No. 20200219-EI, *In re: Petition to initiate emergency rulemaking to prevent electric utility shutoffs, by League of United Latin American Citizens, Zoraida Santana, and Jesse Moody*, I gave testimony to the importance of halting electric power disconnections for the health of members of low-income communities. For more information, please see a transcript of my remarks here: http://www.psc.state.fl.us/library/filings/2020/11330-2020/11330-2020.pdf. In Docket No. 202000181-EU, *In re: Proposed amendment of Rule 25-17.0021, F.A.C., Goals for Electric Utilities*, I gave testimony to the importance of energy efficiency in helping customers lower energy bills, especially for low-income communities and communities of color. For more information, please see a video of my remarks here: http://psc-fl.granicus.com/MediaPlayer.php?view_id=2&clip_id=3368 and here: http://psc-fl.granicus.com/MediaPlayer.php?view_id=2&clip_id=3335.

Q. Have you ever testified as a formal witness before the Florida Public Service Commission?

A. Yes, in the FPL Rate Case I submitted formal testimony on behalf of Florida Rising (Docket 20210015-EI). That testimony can be found here: https://www.floridapsc.com/pscfiles/library/filings/2021/06451-2021/06451-2021.pdf. https://www.floridapsc.com/pscfiles/library/filings/2021/06451-2021/06451-2021.pdf.

Q. On whose behalf are you testifying in this proceeding?

A. Florida Rising, the League of United Latin American Citizens of Florida (also known as "LULAC"), and the Environmental Confederation of Southwest Florida (also known as "ECOSWF").

Q. What is Florida Rising?

A. We are a people-powered organization made up of members advancing economic and racial justice across Florida. We build independent political power that centers historically marginalized communities so everyday Floridians can shape the future. As an organization, we engaged in the 2019 FEECA Hearings, intervened in the 2021 FPL Rate Case, commented on the energy-efficiency rulemaking proceeding (Docket No. 20200181), including in the Rule hearing, commented in some of the fuel dockets and storm recovery dockets, and, in addition to this proceeding, have intervened in the Duke Energy Florida Rate Case and Tampa Electric Company Rate Case, happening at the same time as this case.

Q. Does Florida Rising have members in the utilities subject to this proceeding?

A. Yes, Florida Rising has members in Florida Power & Light Company's ("FPL"), Duke Energy Florida's ("Duke"), Tampa Electric Company's ("TECO"), JEA's, and Orlando Utility Commission's ("OUC") service

territories. We have hundreds of members in Southeast Florida in FPL's territory, at least 53 active members in Duke's territory (Pinellas County, plus we have many more Duke members in the Orlando-area), at least 105 active members in TECO's territory (Hillsborough County), and 96 active members in JEA's territory (Duval County). We have a substantial number of Florida Rising members in OUC's territory, and I personally know several members who are OUC customers. Also, Florida Rising as an organization pays electric bills to FPL, Duke, and TECO for our offices located in those territories.

Q. Why is Florida Rising in this proceeding?

A. As mentioned before, Florida Rising is an organization made up of members focused on empowering marginalized communities to advance racial and economic justice across Florida. In our climate justice work we want a future where the frontline and most impacted communities are at the center of energy policy, disaster response, and all climate change initiatives.

Florida's dependency on fossil fuels has led to our current energy system polluting our communities, fueling our climate crisis, and leaving many in dire economic straits. These issues in our energy system have an unequal and harmful impact on Black, Brown, and low-income communities. A 2020 report by ACEEE found that low-income, Black, Hispanic, and Native American households face higher energy burdens than the average household.[i] Rising housing costs, insurance costs, and stagnant wages have made Florida unaffordable, leaving families with high energy burdens. haa The financial hardship is forcing people to make tough choices between keeping the lights on or paying for groceries or prescription medications or living in hot and unsafe housing conditions. All the while, major utility companies have been

experiencing record profits over the last few years.

Florida has been experiencing an uptick in climate disasters like extreme heat, sea level rise, flooding, and severe storms, which are leaving our neighborhoods and infrastructure vulnerable. Record high heat days,[ii] stronger and more frequent storms,[iii] and other climate disasters are a direct result of our energy system's reliance on dirty fossil fuels. The increase in extreme heat days means that more energy and access to A/C are a requirement in Florida for keeping our homes healthy, habitable, and cool. Stronger and more frequent storms threaten the reliability of our electrical grid, causing loss of property to our state and an increase in illness and death. The increase in extreme disasters places an unfair burden on communities' colors and often leads them into a more vulnerable state than before.

Yet, Florida Rising believes that we must transition to a clean energy system with more community members included in the decision-making . If we do that, we can ensure that everyone has access to clean, affordable energy that creates jobs and is environmentally friendly and resilient against natural disasters.

Q. Have you looked at how Florida ranks nationally when it comes to residential electricity bills?

A. Yes, according to the most recent data from the Energy Information Administration ("EIA"), for 2023, Florida had the fourth highest electricity bills in the nation with an average monthly residential electricity bill of $167.76, behind only Hawaii, Connecticut, and New Hampshire. This data is attached to my testimony as Exhibit MM-1.

Q. How did you determine this?

A. I simply calculated the average monthly revenue per residential customer for each utility and state and combined the data together.

Q. Is this a standard-practice for comparing electric bills?

A. Yes, the Energy Information Administration calculates the average residential electric bills itself using this methodology and compares average monthly bills across utilities and states using this method every year. I have attached previous year data, as compiled by the Energy Information Administration, for 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, and 2022, as Exhibits MM-2–MM-10.

Q. How has Florida's Average Monthly Residential Bills changed since 2014, the last time the energy efficiency goals were set?

A. They have significantly increased, as shown in the table below, both in absolute terms as a dollar amount, and relative to other States. Also, it should be known that the 2023 data for Florida only includes the investor-owned utilities and JEA, as the annual reporting data from the Energy Information Administration has not been released yet. JEA and the investor-owned utilities cover most Floridians, but it is possible that when the rest of the municipal and cooperative data is reported, the average monthly residential electric bill for Florida will drop slightly.

Year	Average Monthly Residential Electric Bill	State National Ranking
2014	$129.86	11
2015	$132.16	8
2016	$123.37	14
2017	$126.44	8
2018	$128.10	13
2019	$129.65	10
2020	$128.64	11
2021	$130.40	14
2022	$154.51	7
2023	$167.76	4

Q. What's the importance of showing other States?

A. Showing other States highlights that whatever factors are driving Florida's electric bills higher, such as higher fuel costs or hotter summers, are not impacting other States in the same way. All States are impacted by higher fuel costs and inflation, and all States are experiencing hotter summers.

Q. What's the significance of 2014?

A. That's the last time the Public Service Commission set energy-efficiency goals for the utilities. In that proceeding, the Commission set goals using the Rate Impact Measure ("RIM") test, under the theory that the RIM test would help keep rates low and thus keep bills down for Floridians.

Q. Do you believe that the energy-efficiency goals set in 2014 have been successful?

A. No. Bills have continued to rise at an extraordinary pace, especially over the last couple of years. Florida used to have electricity bills that were higher than other States but bounced around being about the tenth most expensive in the

nation. Now, Florida has the fourth highest electricity bills in the nation. Unfortunately, with additional rate cases happening, it seems like Florida is on the path to becoming the most expensive State in the nation.

Q. Have rates at least stayed low?

A. No. The 2022 Energy Information Administration data shows that the effective rate, the amount residential consumers pay per kWh regardless of rate structure (dividing amount of revenue from the residential class by electricity sales (kWh)) places Florida now in the top-22 of States in the nation for electricity rates. Exhibit MM- 2.

Q. How about the utilities that are subject to this proceeding? How do their average residential electric bills compare?

A. Tampa Electric Company currently has some of the highest residential electricity bills in the entire nation. In the TECO Rate Case, TECO already admitted that the information it submits to the EIA is accurate and that its total billed revenue for the residential class divided for each month by the customer count for that month, averaged for all twelve months, results in $191.95. Although TECO denies the importance of this calculation, the calculation represents the average revenue per residential customer per month. In other words, it represents the average monthly residential electricity bill. TECO also admitted that, as presented by the EIA for 2023, of the 149 electric utilities with over 100,000 residential customers, TECO had the third highest average monthly residential electricity bills. These admissions are attached as Exhibit MM-11.

Duke Energy Florida is not far behind, with average residential electric bills in 2023 of $186.56, the fifth highest in the nation for utilities with more

than 100,000 residential customers. FPL wasn't far behind that, with an average residential electric bill of $170.11, the eighth highest in the nation out of the 149 utilities reporting with more than 100,000 residential customers. JEA was a lot better with an average monthly residential electricity bill of $136.31, being 58 out of the 149 reporting utilities. In fact, if it wasn't for JEA bringing down the average, and if Florida's rank was measured with just the investor-owned utilities, Florida would have easily been the third most expensive state for residential electricity bills in the nation in 2023. All of these calculations are included in my electric bill comparisons from the EIA 2023 data and are attached as Exhibit MM-12.

Q. How about OUC?

A. OUC doesn't report using the EIA-861M data. It reports the annual data, so I have the 2022 bill data for OUC. It had an average electric residential bill of $138.55 in 2022, which is lower than the investor-owned utilities but still relatively high. The 2022 data is attached as Exhibit MM-13.

Q. How do Florida-utilities frequently do "bill" comparisons?

A. They frequently do "bill" comparisons using a standardized 1,000 kWh assumption.

Q. What's your opinion regarding that kind of comparison?

A. It is an arbitrary and misleading comparison. Consumers do not pay bills based off of 1,000 kWh of usage; they pay bills off of actual usage. Florida utilities often have higher rates above 1,000 kWh of usage, and most average above 1,000 kWh of usage. Most utilities out of state have consumers that use less than 1,000 kWh of usage. Thus, 1,000 kWh of usage frequently understates the actual bills Florida consumers pay, while overstating the actual

bills others pay. Even in this proceeding, the utilities offer bill comparisons for energy-efficiency goal-setting purposes of 1,000 kWh of usage.

Q. Is there an issue with that?

A. Yes. Energy-efficiency saves electricity and lowers usage. Comparing "bills" with different amounts of energy-efficiency while still maintaining 1,000 kWh of usage will, of course, make more energy efficiency look more costly, as energy-efficiency measures are not free. Thus, the more energy efficiency a utility does, the more "expensive" it will look on a 1,000 kWh "bill" comparison, even though the opposite may be true for actual bills, i.e., what people actually pay.

Q. Do you have an opinion about Florida's energy efficiency historical performance?

A. Yes. The Florida electric utilities subject to FEECA have some of the worst energy efficiency performance in the nation. A common way of comparing actual performance on energy efficiency between utilities is to look at the total amount of energy each utility saved in a year as a percent of that utility's total retail sales for the same year. This gives a fair comparison of how each utility is doing, since in absolute numbers, a small utility with excellent energy efficiency achievements won't save as much total energy as a huge utility with abysmal performance.

In 2021, the latest year for which the analysis has been completed, the national average for energy savings as a percent of total retail sales was 0.68%. SACE Energy Efficiency in the Southeast Report (March 2023), attached as Exhibit MM-14, at 4. In that same year, the Florida average was just 0.08%, with the FEECA utilities ranging from 0.3% on the high end for OUC and

TECO, to a low end of 0.03% for FPL. *Id.* at 20. That made FPL's energy efficiency performance more than *twenty* times lower than the national average.

Using data reported by the FEECA utilities, I have calculated the energy efficiency performance of these utilities for 2023, summarized in the tables below. The data is taken from the utilities' 2023 Annual DSM Reports to the PSC, attached as Exhibits MM-15–MM-19 and from Schedule 2 of their 2023 Ten Year Site Plans, excerpted as Exhibits MM-20–MM-24. I have prepared a workpaper supporting these calculations and attached it as Exhibit MM-25.

2023 Annual System-Wide Energy Efficiency Savings Achieved			
Utility	Total GWh Savings at Meter	Total Retail Sales At Meter (GWh)	Total Energy Saved as Percent of Total Retail Sales
FPL	79.863	127,904	0.06%
DEF	57.955	40,832	0.14%
TECO	56.723	20,791	0.27%
JEA	7.861	12,295	0.06%
OUC	9.956	7,155	0.14%

2023 Annual Residential Energy Efficiency Savings Achieved			
Utility	Residential GWh Savings at Meter	Total Retail SalesAt Meter (GWh)	Residential Energy Saved as Percent of Total Retail Sales
FPL	32.328	127,904	0.03%
DEF	47.504	40,832	0.12%
TECO	28.03	20,791	0.14%
JEA	3.478	12,295	0.03%
OUC	1.786	7,155	0.02%

2023 Annual Commercial & Industrial Energy Efficiency Savings Achieved			
Utility	C&I GWh Savings at Meter	Total Retail Sales At Meter (GWh)	C&I Energy Saved as Percent of Total Retail Sales
FPL	47.5352	127,904	0.04%
DEF	9.50087	40,832	0.02%
TECO	28.6932	20,791	0.14%
JEA	4.38341	12,295	0.04%
OUC	8.17036	7,155	0.11%

The FEECA utilities continue to fall far behind the national average, with the result that customers in Florida use and pay for more electricity than they would otherwise need. Even the limited energy efficiency programs that are offered to customers have not been fairly distributed. The table below shows the breakdown of savings by class as a percentage of the total.

2023 Annual Class Shares of Total Achieved Energy Efficiency Savings		
Utility	Residential Share of Total Energy Savings (%)	C&I Share of Total Energy Savings (%)
FPL	40.48%	59.52%
DEF	81.97%	16.39%
TECO	49.42%	50.58%
JEA	44.24%	55.76%
OUC	17.94%	82.07%

Residential customers make up a majority of each of these utilities both by accounts and by total sales. Exhibits MM-20–MM-24. Yet for almost every utility, most energy efficiency savings go to the commercial and industrial classes. That means that residential customers pay more into the programs through the energy conservation cost recovery clause, but businesses get most of the benefits. OUC stands as the most lopsided, giving businesses more than 82% of total savings, and less than 18% to residential customers. As discussed later, most energy efficiency funding goes to bill credits for big commercial and industrial customers for participating in interruptible or curtailable programs – even though they don't actually get interrupted or curtailed.

Q. Have you reviewed the energy-efficiency goals proposed by the utilities in this proceeding?

A. Yes.

Q. What, if any, opinion do you have regarding the proposed goals?

A. I have utility-specific criticisms detailed below. However, I am glad to say at least none of the utilities proposed goals for zero, and all seem to recognize the

importance of meeting the needs of low-income Floridians and renters. The utilities also seem to recognize that setting goals just based on the RIM test and the 2-year payback screen doesn't work for actual utility programs, especially for low-income customers, so I am glad that the utilities did not rigorously apply the RIM test and 2-year payback screen. So, in that regard, there's definitely been an improvement from the proposals five years ago during the 2019 proceeding. But overall, I would say that the utility proposals are still inadequate to meet the needs of Floridians, especially low-income customers. However, as I note later in in my testimony, there is variation amongst the utilities, with Duke having some of the better goal-proposals, and FPL having some of the worst, especially given its size (although I would note that FPL's proposal is still an improvement from what they have historically proposed, and so it's good to see that they are moving in the right direction).

Q. Do you have an opinion regarding the use of the 2-year payback screen as a means to screen for freeriders?

A. Yes.

Q. What is that opinion?

A. The 2-year payback screen is a crude instrument that doesn't reflect Floridians' lived-experiences. In my role as Climate Justice Director of Florida Rising, I interact with ordinary Floridians (as in, not connected to the energy-world outside of receiving a monthly electric bill) on an almost daily basis. I've yet to meet someone that knows what energy efficiency measures pay for themselves in two years or less and which ones take longer than two years to pay for themselves. Also, many of the people I interact with everyday struggle to pay their existing bills as it is. Most low-income customers that I know

cannot afford to purchase energy-efficiency measures that pay for themselves in less than two years because they are struggling to pay their bills day-to-day. So the idea of making an upfront investment that pays for itself in less than two years is simply something many people cannot afford to do. Also I reject the phrasing and characterization of customers utilizing energy efficiency measures as "freeriders," because the cost of the energy efficiency measures are paid by the customers through the Energy Conservation Cost Recovery Clause. Not only that, but all the non-low-income energy efficiency programs require customers to pay money to access said programs.

Q. You've been involved with these kinds of proceedings for over five years now. Can you name the energy-efficiency measures that pay for themselves in less than two years without looking it up?

A. No. I can probably name a couple at this point, like faucet aerators and LED lightbulbs, but I certainly cannot name an exhaustive list.

Q. Have you examined FPL's proposed goals in this proceeding?

A. Yes.

Q. And what's your opinion regarding those goals?

A. FPL is the largest and wealthiest utility in the State, and serving most Floridians, it should set the example to other utilities for good energy efficiency goals. Yet, despite being several times the size of the next largest utility (Duke), FPL has proposed goals that, in absolute terms, are significantly lower than what Duke has proposed. That doesn't make sense, especially as it relates to low-income customers. TECO, a utility significantly smaller than FPL, proposes to reach almost as many low-income customers (7,500) to be served as FPL does. And, as I note later in my testimony, I think this should be

expanded and significantly scaled up.

Q. What do you propose?

A. As it relates to FPL's low-income programs, I propose expanding them as reflected below to match TECO's proposals on a per-capita basis. FPL has over 6.92 times the number of residential customers as TECO, Exhibit MM-12, and therefore I propose that FPL try to reach 6.92 times as many low-income customers as Duke. This is reflected in the table below.

Proposed Increase to FPL Low-Income Program Participation			
Year	FPL Proposed Participation	TECO Proposed Participation	My Recommendation for FPL Low-Income Participation
2025	11,000	7,500	51,900
2026	11,110	7,500	51,900
2027	11,221	7,500	51,900
2028	11,333	7,500	51,900
2029	11,447	7,500	51,900
2030	11,561	7,500	51,900
2031	11,677	7,500	51,900
2032	11,793	7,500	51,900
2033	11,911	7,500	51,900
2034	12,031	7,500	51,900

Q. How does that translate to proposed goals?

A. From an FPL workpaper, attached as Exhibit MM-26, which matches that seen at Exhibit JNF-4, page 25 of 34, it can be seen that at the generator, each installation is, on average, expected to result in 0.507 kW of savings in the summer, 0.077 kW of savings in the winter, and 928.0044 kWh of savings. To

calculate my proposed goals, I multiplied my proposed participants by the savings per participant, as reflected in the tables below. All values are at the Generator.

FPL Low-Income Program: Annual GWh			
Year	FPL Proposed Goal	My Recommended Goal	Difference
2025	10.21	48.16	37.95
2026	10.31	48.16	37.85
2027	10.41	48.16	37.75
2028	10.52	48.16	37.64
2029	10.62	48.16	37.54
2030	10.73	48.16	37.43
2031	10.84	48.16	37.32
2032	10.94	48.16	37.22
2033	11.05	48.16	37.11
2034	11.16	48.16	37

FPL Low-Income Program: Winter MW			
Year	FPL Proposed Goal	My Recommended Goal	Difference
2025	0.85	4	3.15
2026	0.85	4	3.15
2027	0.86	4	3.14
2028	0.87	4	3.13
2029	0.88	4	3.12
2030	0.89	4	3.11
2031	0.9	4	3.1
2032	0.91	4	3.09
2033	0.92	4	3.08
2034	0.92	4	3.08

FPL Low-Income Program: Summer MW			
Year	FPL Proposed Goal	My Recommended Goal	Difference
2025	5.57	26.31	20.74
2026	5.63	26.31	20.68
2027	5.68	26.31	20.63
2028	5.74	26.31	20.57
2029	5.8	26.31	20.51
2030	5.86	26.31	20.45
2031	5.92	26.31	20.39
2032	5.97	26.31	20.34
2033	6.03	26.31	20.28
2034	6.09	26.31	20.22

Q. Do you have any other proposed changes to FPL's proposed goals?

A. Yes. I propose expanding its Residential HVAC/Air Condition program, which easily passes the TRC test. FPL used to have participation of over 100,000 residential customers per year in that program consistently. FPL proposes to have the number of residential customers participate in 10 years be what it used to do in two years before its goals were cut in 2014. As shown in Exhibit MM-27, FPL had over 93,000 participants in 2015, and as shown in Exhibit MM-28, had over 120,000 participants in 2014. FPL has also grown significantly since then, with many customers moving into its territory and with its expansion into Northwest Florida via its acquisition of Gulf Power Company. I think FPL can very reasonably reach 150,000 residential customers per year, and I have accordingly adjusted its goals as shown below, assuming 150,000 participants per year. FPL assumes savings of 705.6088

kWh of savings per participant, as well as 0.306 kW of savings (winter) and 0.127 kW of savings (summer) per participant (this can be seen on Exhibit JNF-4, page 23 of 34, by dividing FPL's expected savings by the projected participants). All values are at the Generator.

FPL Residential HVAC/Air Condition program: Annual GWh			
Year	FPL Proposed Goal	My Recommended Goal	Difference
2025	14.11	105.89	91.78
2026	14.25	105.89	91.64
2027	14.4	105.89	91.49
2028	14.54	105.89	91.35
2029	14.69	105.89	91.2
2030	14.83	105.89	91.06
2031	14.98	105.89	90.91
2032	15.13	105.89	90.76
2033	15.28	105.89	90.61
2034	15.43	105.89	90.46

FPL Residential HVAC/Air Condition program: Winter MW			
Year	FPL Proposed Goal	My Recommended Goal	Difference
2025	6.12	45.93	39.81
2026	6.18	45.93	39.75
2027	6.25	45.93	39.68
2028	6.31	45.93	39.62
2029	6.37	45.93	39.56
2030	6.44	45.93	39.49
2031	6.5	45.93	39.43
2032	6.57	45.93	39.36
2033	6.63	45.93	39.3
2034	6.7	45.93	39.23

FPL Residential HVAC/Air Condition program: Summer MW			
Year	FPL Proposed Goal	My Recommended Goal	Difference
2025	2.53	19	16.47
2026	2.56	19	16.44
2027	2.58	19	16.42
2028	2.61	19	16.39
2029	2.64	19	16.36
2030	2.66	19	16.34
2031	2.69	19	16.31
2032	2.72	19	16.28
2033	2.74	19	16.26
2034	2.77	19	16.23

Q. Have you accounted for customer growth in FPL's service territory in your proposed program goal modifications?

A. No, which makes my recommendations more conservative. If the Commission wants to account for projected customer growth, it should adjust my recommendations upwards.

Q. What are your thoughts on the Residential Low Income Renter Pilot?

A. I am glad to see that FPL is trying to address the needs of its low-income renters, which is critical to the communities we serve. Yet, I am concerned about the potential repercussions on the constituent group for which the program was created. First, the $1,000 may not be enough to upgrade to a more efficient HVAC unit, which may discourage participation. Secondly, FPL assumes that because they will pay the incremental cost of up to $1,000 for more efficient HVAC units, landlords, who still must pay for the installation cost, will not use the upgraded appliances as an excuse to shift the remaining

cost onto tenants by increasing rent.

Q. What are your thoughts on FPL's industrial and commercial load-control programs?

A. As FPL itself notes, the CDR program does not pass the RIM test. This has the general body of ratepayers paying a lot of money with no apparent benefit. As shown by FPL's interrogatory answers, attached as Exhibit MM-29, customers participating in all of the commercial and industrial load-control programs have never had their electricity interrupted or curtailed within the last five years. FPL also has no intention of interrupting them in the future, as "FPL's load control programs are intended to provide capacity reserves in the event of a capacity shortfall [and] FPL does not intend to have a capacity shortfall." As such, it is hard to see the value of these programs for customers.

As shown in Exhibit MM-30, of the approximately $155 million FPL spent on energy conservation programs in 2023, almost half ($69,131,472) went to large commercial and industrial customers participating in load control programs (Commercial/Industrial Load Control, Commercial/Industrial Demand Reduction, Curtailable Load). The majority of that $155 million is going to come from residential customers. At a minimum, the credits to the participating customers should be cut in the load-control programs. Given that this is essentially free money for large commercial and industrial customers (as they never have their power cut or curtailed), I would think that they would still want to participate, even if the credits they receive are cut. I propose cutting these credits by at least half and support even deeper cuts.

Q. Please summarize your recommended goals for FPL.

A. Please see the table below for FPL's original proposed residential goals and my

recommended additions.

FPL Residential Goals Summary: Annual GWh			
Year	Previous Residential Goal	Additional Residential Goal	Total New Res. Goal
2025	39.31	129.73	169.04
2026	38.55	129.49	168.04
2027	37.9	129.24	167.14
2028	36.88	128.99	165.87
2029	36.41	128.74	165.15
2030	36.03	128.49	164.52
2031	35.71	128.23	163.94
2032	35.46	127.98	163.44
2033	35.26	127.57	162.83
2034	35.12	127.46	162.58

FPL Residential Goals Summary: Winter MW			
Year	Previous Residential Goal	Additional Residential Goal	Total New Res. Goal
2025	19.73	42.96	62.69
2026	20.61	42.9	63.51
2027	21.7	42.82	64.52
2028	22.09	42.75	64.84
2029	22.55	42.68	65.23
2030	23.04	42.6	65.64
2031	23.57	42.53	66.1
2032	24.13	42.45	66.58
2033	24.73	42.38	67.11
2034	25.38	42.31	67.69

FPL Residential Goals Summary: Summer MW			
Year	Previous Residential Goal	Additional Residential Goal	Total New Res. Goal
2025	25.19	37.21	62.4
2026	25.42	37.12	62.54
2027	25.8	37.05	62.85
2028	25.8	36.96	62.76
2029	25.92	36.87	62.79
2030	26.07	36.79	62.86
2031	26.26	36.7	62.96
2032	26.49	36.62	63.11
2033	26.75	36.54	63.29
2034	27.05	36.45	63.5

Q. Have you looked at Duke's proposal for its low-income programs?

A. I tried, but Duke still hasn't provided most information regarding its low-income programs, including expected participation and savings per customer. However, on May 30, 2024, Duke did provide some of its workpapers showing how its goals were derived, including the expected savings from its low-income programs, "Low Income Weatherization" and "Neighborhood Energy Saver." This information is attached to my testimony as Exhibit MM-37.

Q. Why can't you tell the expected participation and savings per customer?

A. The provided workpapers show the expected participation on a measure basis, which is sometimes on a per home basis, but is often on a per unit basis, so it is unclear how many customers Duke expects to participate in the programs (as multiple measures may apply to the same customer), and how much the average customer is thus expected to save.

Q. Have you examined Duke's historical performance in its low-income programs?

A. Yes. For its Low Income Weatherization Assistance Program, as shown in Exhibit MM-16, page 5, Duke has had less than 200 participants since 2020, and in 2023, the year with the most participation, it saved 0.4 GWh of energy (at the generator). It has done a bit better with its Neighborhood Energy Saver program, especially last year where they achieved almost 6,000 participants. Most impressive about the Neighborhood Energy Saver is the savings per customer and savings of 18.5 GWh at the generator. Duke is to be commended for the deep savings per low-income customer. But, for both programs, given that even together it has less participation than TECO, I believe there is room for expansion.

Q. What do you recommend?

A. I recommend that Duke double its goals for the Low Income Weatherization program, and increase its Neighborhood Energy Saver program by 25%. This should roughly reflect the participation that TECO already achieves in its low-income program, and it should bear mentioning that TECO is a smaller utility. These recommendations are reflected in the tables below.

Duke Low Income Weatherization Program: Annual GWh			
Year	Duke Proposed Goal	My Recommended Goal	Difference
2025	1.6	3.2	1.6
2026	1.6	3.2	1.6
2027	1.7	3.4	1.7
2028	1.7	3.4	1.7
2029	1.7	3.4	1.7
2030	1.7	3.4	1.7
2031	1.7	3.4	1.7
2032	1.7	3.4	1.7
2033	1.6	3.2	1.6
2034	1.6	3.2	1.6

Duke Low Income Weatherization Program: Winter MW			
Year	Duke Proposed Goal	My Recommended Goal	Difference
2025	0.5	1	0.5
2026	0.5	1	0.5
2027	0.5	1	0.5
2028	0.5	1	0.5
2029	0.5	1	0.5
2030	0.5	1	0.5
2031	0.5	1	0.5
2032	0.5	1	0.5
2033	0.4	0.8	0.4
2034	0.4	0.8	0.4

Duke Low Income Weatherization Program: Summer MW			
Year	Duke Proposed Goal	My Recommended Goal	Difference
2025	0.7	1.4	0.7
2026	0.7	1.4	0.7
2027	0.8	1.6	0.8
2028	0.8	1.6	0.8
2029	0.8	1.6	0.8
2030	0.8	1.6	0.8
2031	0.8	1.6	0.8
2032	0.8	1.6	0.8
2033	0.7	1.4	0.7
2034	0.7	1.4	0.7

Duke Neighborhood Energy Saver Program: Annual GWh			
Year	Duke Proposed Goal	My Recommended Goal	Difference
2025	18.9	23.6	4.7
2026	18.9	23.6	4.7
2027	19.8	24.8	5
2028	19.8	24.8	5
2029	19.8	24.8	5
2030	19.8	24.8	5
2031	19.8	24.8	5
2032	19.8	24.8	5
2033	19.8	24.8	5
2034	19.8	24.8	5

Duke Neighborhood Energy Saver Program: Winter MW			
Year	Duke Proposed Goal	My Recommended Goal	Difference
2025	9	11.3	2.3
2026	9	11.3	2.3
2027	9.5	11.9	2.4
2028	9.5	11.9	2.4
2029	9.5	11.9	2.4
2030	9.5	11.9	2.4
2031	9.5	11.9	2.4
2032	9.5	11.9	2.4
2033	9.5	11.9	2.4
2034	9.5	11.9	2.4

Duke Neighborhood Energy Saver Program: Summer MW			
Year	Duke Proposed Goal	My Recommended Goal	Difference
2025	7.6	9.5	1.9
2026	7.6	9.5	1.9
2027	7.9	9.9	2
2028	7.9	9.9	2
2029	7.9	9.9	2
2030	7.9	9.9	2
2031	7.9	9.9	2
2032	7.9	9.9	2
2033	7.9	9.9	2
2034	7.9	9.9	2

Q. Please summarize your recommended goals for Duke.

A. Please see the tables below for Duke's original proposed residential goals and my recommended additions.

Duke Residential Goals Summary: Annual GWh			
Year	Previous Residential Goal	Additional Residential Goal	Total New Res. Goal
2025	48.4	6.3	54.7
2026	48.7	6.3	55
2027	50.1	6.7	56.8
2028	50.6	6.7	57.3
2029	51.5	6.7	58.2
2030	50.8	6.7	57.5
2031	51.1	6.7	57.8
2032	51.5	6.7	58.2
2033	51.7	6.6	58.3
2034	52.1	6.6	58.7

Duke Residential Goals Summary: Winter MW			
Year	Previous Residential Goal	Additional Residential Goal	Total New Res. Goal
2025	30.8	2.8	33.6
2026	31.3	2.8	34.1
2027	31.4	2.9	34.3
2028	32.7	2.9	35.6
2029	33.4	2.9	36.3
2030	31.9	2.9	34.8
2031	31.9	2.9	34.8
2032	31.9	2.9	34.8
2033	31.9	2.8	34.7
2034	31.9	2.8	34.7

Duke Residential Goals Summary: Summer MW			
Year	Previous Residential Goal	Additional Residential Goal	Total New Res. Goal
2025	20.1	2.6	22.7
2026	20.2	2.6	22.8
2027	20.7	2.8	23.5
2028	20.9	2.8	23.7
2029	21.1	2.8	23.9
2030	20.8	2.8	23.6
2031	20.8	2.8	23.6
2032	20.9	2.8	23.7
2033	20.9	2.7	23.6
2034	20.9	2.7	23.6

Q. Have you looked at Duke's proposals regarding its curtailable and interruptible customers?

A. Yes. I support Duke's proposed cuts. As it stands, the interruptible service and curtailable service represent almost half of Duke's spending on energy conservation. I have attached Duke's 2023 spending report as Exhibit MM-31. The Interruptible Service itself cost ratepayers $48,337,004 last year, and as residential customers represent the majority of revenue for Duke, that means most of that money is coming from residential customers. I have also attached Exhibit MM-32, which shows that these customers have not had any power interrupted or curtailed within the last five years, and Duke has no forecast for any interruptions in the future. Because Duke has sufficient resources to ensure these customers are not being interrupted or curtailed, it is hard to see the benefit of paying these customers almost $50 million a year. Therefore, I

support Duke's proposal to cut the credit rates to these customers and would support even deeper cuts.

Q. What are your thoughts on TECO?

A. According to TECO's actual energy efficiency performance (pretty good by Florida standards), as I discussed earlier, TECO can achieve quite a bit of energy-efficiency savings, especially for its residential customers. I believe this should be reflected in its goals, which I have added by adjusting the target number of participants per year in what I think is an achievable way.

Q. What makes you think that your targets are achievable?

A. Many of these programs go back decades and at one point had significant participation before the 2014 goals-proceeding. If the utilities achieved robust participation before, I believe they can get to those participation numbers again (but less than they historically achieved).

Q. Do you have specific recommendations for its residential duct repair program?

A. Yes. TECO currently projects only 450 participants. In my opinion, looking at the history of the program, TECO can reach at least 1,350 participants, so it should triple the goal for this program. As shown in Exhibit MM-17, TECO had almost 1,300 participants in this program in 2016 and had almost 2,000 participants in 2015 and 2018. This recommendation is reflected in the tables below. Before the energy-efficiency goal-cuts of 2014, TECO had even more robust participation, with over 4,000 participants in 2011, as shown in Exhibit MM-33. Therefore, in my opinion, considering the number of eligible customers, a goal of 1,300 customers should be easily achievable for TECO.

TECO Residential Duct Repair: Annual GWh			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	0.431	0.862	1.293
2026	0.431	0.862	1.293
2027	0.431	0.862	1.293
2028	0.431	0.862	1.293
2029	0.431	0.862	1.293
2030	0.431	0.862	1.293
2031	0.431	0.862	1.293
2032	0.431	0.862	1.293
2033	0.431	0.862	1.293
2034	0.431	0.862	1.293

TECO Residential Duct Repair: Winter MW			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	0.079	0.158	0.237
2026	0.079	0.158	0.237
2027	0.079	0.158	0.237
2028	0.079	0.158	0.237
2029	0.079	0.158	0.237
2030	0.079	0.158	0.237
2031	0.079	0.158	0.237
2032	0.079	0.158	0.237
2033	0.079	0.158	0.237
2034	0.079	0.158	0.237

TECO Residential Duct Repair: Summer MW			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	0.197	0.394	0.591
2026	0.197	0.394	0.591
2027	0.197	0.394	0.591
2028	0.197	0.394	0.591
2029	0.197	0.394	0.591
2030	0.197	0.394	0.591
2031	0.197	0.394	0.591
2032	0.197	0.394	0.591
2033	0.197	0.394	0.591
2034	0.197	0.394	0.591

Q. Do you have any recommendations for TECO's Energy and Renewable Education, Awareness, and Outreach program?

A. Yes. Looking at historical performance, I believe that TECO can double participation in the program over what it projected in its testimony, and I adjusted the goals accordingly in my recommendation, as reflected in the tables below. As shown in Exhibit MRR-1, document number 16, page 6 of 30, TECO projects 1,750 participants in the program. In 2022, as shown in Exhibit MM-17, TECO had almost 2,500 participants, and because of that, I believe that doubling the 1,750 participants is doable for TECO, which is reflected in my proposals below.

TECO Energy Education and Outreach Program: Annual GWh			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	0.615	0.615	1.23
2026	0.615	0.615	1.23
2027	0.615	0.615	1.23
2028	0.615	0.615	1.23
2029	0.615	0.615	1.23
2030	0.615	0.615	1.23
2031	0.615	0.615	1.23
2032	0.615	0.615	1.23
2033	0.615	0.615	1.23
2034	0.615	0.615	1.23

TECO Energy Education and Outreach Program: Winter MW			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	0.188	0.188	0.376
2026	0.188	0.188	0.376
2027	0.188	0.188	0.376
2028	0.188	0.188	0.376
2029	0.188	0.188	0.376
2030	0.188	0.188	0.376
2031	0.188	0.188	0.376
2032	0.188	0.188	0.376
2033	0.188	0.188	0.376
2034	0.188	0.188	0.376

TECO Energy Education and Outreach Program: Summer MW			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	0.026	0.026	0.052
2026	0.026	0.026	0.052
2027	0.026	0.026	0.052
2028	0.026	0.026	0.052
2029	0.026	0.026	0.052
2030	0.026	0.026	0.052
2031	0.026	0.026	0.052
2032	0.026	0.026	0.052
2033	0.026	0.026	0.052
2034	0.026	0.026	0.052

Q. Do you have any recommendations for the Energy Start for New Multi-Family Residences program?

A. Yes. The 300 projected participants every three years is rather weak, so I have proposed a goal of 900 participants per year. This is reflected in the tables below.

TECO Energy Start for New Multi-Family Residences: Annual GWh			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	0	1.631	1.631
2026	0	1.631	1.631
2027	0.544	1.087	1.631
2028	0	1.631	1.631
2029	0	1.631	1.631
2030	0.543	1.087	1.631
2031	0	1.631	1.631
2032	0	1.631	1.631
2033	0.544	1.087	1.631
2034	0	1.631	1.631

TECO Energy Start for New Multi-Family Residences: Winter MW			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	0	0.198	0.198
2026	0	0.198	0.198
2027	0.066	0.132	0.198
2028	0	0.198	0.198
2029	0	0.198	0.198
2030	0.066	0.132	0.198
2031	0	0.198	0.198
2032	0	0.198	0.198
2033	0.066	0.132	0.198
2034	0	0.198	0.198

TECO Energy Start for New Multi-Family Residences: Summer MW			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	0	0.494	0.494
2026	0	0.494	0.494
2027	0.165	0.33	0.494
2028	0	0.494	0.494
2029	0	0.494	0.494
2030	0.165	0.33	0.494
2031	0	0.494	0.494
2032	0	0.494	0.494
2033	0.165	0.33	0.494
2034	0	0.494	0.494

Q. Do you have any recommendations for TECO's residential heating and cooling program?

A. Yes. TECO projects 500 participants in Tier 1 of the program and 1000 participants in Tier 2 of the program. You can see in Exhibit MM-17, TECO had over 5,000 participants in the Residential Heating and Cooling program in

2015, before energy-efficiency programs were drastically scaled back due to the cut in energy efficiency goals from the 2014 proceeding. So, tripling the size of the program to 4,500 participants total via tripling Tier 1 and Tier 2 seems very doable. My recommended goals for the program are reflected in the tables below.

Tier 1:

TECO Residential Heating & Cooling, Tier 1: Annual GWh			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	3.196	6.392	9.588
2026	3.196	6.392	9.588
2027	3.196	6.392	9.588
2028	3.196	6.392	9.588
2029	3.196	6.392	9.588
2030	3.196	6.392	9.588
2031	3.196	6.392	9.588
2032	3.196	6.392	9.588
2033	3.196	6.392	9.588
2034	3.196	6.392	9.588

TECO Residential Heating & Cooling, Tier 1: Winter MW			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	2.105	4.21	6.316
2026	2.105	4.21	6.316
2027	2.105	4.21	6.316
2028	2.105	4.21	6.316
2029	2.105	4.21	6.316
2030	2.105	4.21	6.316
2031	2.105	4.21	6.316
2032	2.105	4.21	6.316
2033	2.105	4.21	6.316
2034	2.105	4.21	6.316

TECO Residential Heating & Cooling, Tier 1: Summer MW			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	0.069	0.138	0.208
2026	0.069	0.138	0.208
2027	0.069	0.138	0.208
2028	0.069	0.138	0.208
2029	0.069	0.138	0.208
2030	0.069	0.138	0.208
2031	0.069	0.138	0.208
2032	0.069	0.138	0.208
2033	0.069	0.138	0.208
2034	0.069	0.138	0.208

Tier 2:

TECO Residential Heating & Cooling, Tier 2: Annual GWh			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	6.674	13.348	20.022
2026	6.674	13.348	20.022
2027	6.674	13.348	20.022
2028	6.674	13.348	20.022
2029	6.674	13.348	20.022
2030	6.674	13.348	20.022
2031	6.674	13.348	20.022
2032	6.674	13.348	20.022
2033	6.674	13.348	20.022
2034	6.674	13.348	20.022

TECO Residential Heating & Cooling, Tier 2: Winter MW			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	4.262	8.524	12.786
2026	4.262	8.524	12.786
2027	4.262	8.524	12.786
2028	4.262	8.524	12.786
2029	4.262	8.524	12.786
2030	4.262	8.524	12.786
2031	4.262	8.524	12.786
2032	4.262	8.524	12.786
2033	4.262	8.524	12.786
2034	4.262	8.524	12.786

TECO Residential Heating & Cooling, Tier 2: Summer MW			
Year	Previous Program Goal	Additional Goal Summer	Total New Program Goal
2025	0.259	0.517	0.776
2026	0.259	0.517	0.776
2027	0.259	0.517	0.776
2028	0.259	0.517	0.776
2029	0.259	0.517	0.776
2030	0.259	0.517	0.776
2031	0.259	0.517	0.776
2032	0.259	0.517	0.776
2033	0.259	0.517	0.776
2034	0.259	0.517	0.776

Q. Do you have any recommendations for TECO's Neighborhood Weatherization program?

A. Yes. This program is especially important to Florida Rising's members.

Although TECO is the undisputed leader in Florida in reaching its low-income customers with this program, and thus the benchmark that all the other utilities in this proceeding should be using to measure their progress in reaching low-income customers, I believe 10,000 participants per year is an achievable goal for TECO. In 2022, seen in Exhibit MM-17, to its credit, TECO reached 9,159 participants. This is almost as many as FPL reached, even though FPL is almost seven times the size of TECO. TECO has regularly exceeded its goal for this program, and I am happy to see that TECO has proposed to expand its goal to 7,500 participants per year to more closely reflect its actual rates of participation. But I believe TECO can do better than that, and so I propose TECO try to reach 10,000 participants per year. My recommended goal is reflected in the tables below.

TECO Neighborhood Weatherization: Annual GWh			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	10.233	3.411	13.644
2026	10.233	3.411	13.644
2027	10.233	3.411	13.644
2028	10.233	3.411	13.644
2029	10.233	3.411	13.644
2030	10.233	3.411	13.644
2031	10.233	3.411	13.644
2032	10.233	3.411	13.644
2033	10.233	3.411	13.644
2034	10.233	3.411	13.644

TECO Neighborhood Weatherization: Winter MW			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	2.664	0.888	3.552
2026	2.664	0.888	3.552
2027	2.664	0.888	3.552
2028	2.664	0.888	3.552
2029	2.664	0.888	3.552
2030	2.664	0.888	3.552
2031	2.664	0.888	3.552
2032	2.664	0.888	3.552
2033	2.664	0.888	3.552
2034	2.664	0.888	3.552

TECO Neighborhood Weatherization: Summer MW			
Year	Previous Program Goal	Additional Goal	Total New Program Goal
2025	1.819	0.606	2.425
2026	1.819	0.606	2.425
2027	1.819	0.606	2.425
2028	1.819	0.606	2.425
2029	1.819	0.606	2.425
2030	1.819	0.606	2.425
2031	1.819	0.606	2.425
2032	1.819	0.606	2.425
2033	1.819	0.606	2.425
2034	1.819	0.606	2.425

Q. Please summarize your recommended goals for TECO.

A. I have summarized my recommended goals for TECO in the tables below.

TECO Residential Goals Summary: Annual GWh			
Year	Previous Goal	Additional Goal	Total New Goal
2025	24.2	26.189	50.4
2026	24.2	26.189	50.4
2027	24.8	26.123	50.9
2028	24.2	26.189	50.4
2029	24.2	26.189	50.4
2030	25.2	26.123	51.3
2031	24.7	26.189	50.9
2032	24.7	26.189	50.9
2033	25.2	26.123	51.3
2034	24.7	26.189	50.9

TECO Residential Goals Summary: Winter MW			
Year	Previous Goal	Additional Goal	Total New Goal
2025	13.8	14.166	28
2026	13.8	14.166	28
2027	14.4	14.1	28.5
2028	14.3	14.166	28.5
2029	14.3	14.166	28.5
2030	15	14.1	29.1
2031	14.9	14.166	29.1
2032	14.9	14.166	29.1
2033	15	14.1	29.1
2034	14.9	14.166	29.1

TECO Residential Goals Summary: Summer MW			
Year	Previous Goal	Additional Goal	Total New Goal
2025	7.8	2.175	10
2026	7.8	2.175	10
2027	8.7	2.01	10.7
2028	8.5	2.175	10.7
2029	8.5	2.175	10.7
2030	9.5	2.01	11.5
2031	9.4	2.175	11.6
2032	9.4	2.175	11.6
2033	9.5	2.01	11.5
2034	9.4	2.175	11.6

Q. Do you have any recommendations in regards to TECO's Commercial and Industrial load control and load management programs?

A. Yes. Although TECO, unlike Duke and FPL, has actually utilized these programs to curtail demand and load, I still believe that the credits for these programs are too high. As shown in Exhibit MM-34, TECO spent $22,761,449 on its Industrial Load Management program (almost entirely in the form of credits to participating customers), $3,849,871 on its Demand Response program, and $5,153,806 on its Standby Generator program, well over half of the total $47,132,152 it spent. Residential customers, of course, account for the majority of the funding for this program. I propose that these credits be cut by at least three-quarters, if not eliminated entirely.

Q. Do you have any recommendations with regards to OUC's proposal?

A. Yes. As I mentioned earlier in my testimony, OUC has been spending most of its energy efficiency and conservation spending on commercial and industrial customers and has been neglecting its residential customers. I also recommend that OUC, at a minimum, adjust its existing programs to facilitate low-income

customers being able to utilize the programs.

Q. What do you mean?

A. OUC's program that is most geared towards low-income customers is "Residential Efficiency Delivered," yet that program requires customers with less than $40,000 in income to pay 15% of the costs of any energy efficiency upgrades, as well as any amount over $2,500 (as OUC's max contribution is $2,125). Exhibit KMN-2 at page 8.

Q. Why is that an issue?

A. Many low-income customers cannot make that kind of investment. Even assuming $2,500 worth of upgrades, low-income customers would be on the hook for $375. Most low-income customers I know cannot afford to make that kind of upfront investment. According to the Federal Reserve, 37% of all adults said they would not be able to pay an emergency $400 expense using savings (https://www.federalreserve.gov/publications/2023-economic-well-being-of-us-households-in-2022-expenses.htm). I am aware that OUC allows low-income customers to repay their portion of the cost over a two-year horizon as part of their OUC bills. However, this is a burden that many low-income customers will not be willing to take on. Therefore, I recommend that for customers that make a household income of less than $60,000, OUC cover 100% of the costs of the program. Given the cost of living in the Orlando-area, based on my experience, I believe anyone with a household income of less than $60,000 is going to struggle to afford the upfront investments associated with energy-efficiency and should be considered low-income and have 100% of the costs covered by OUC.

Q. Do you have any other recommendations regarding Efficiency Delivered?

A. Yes. I recommend that the program be opened up to all of OUC's residential customers, not just those that are owners of single-family homes. Many of OUC's residential low-income customers are not owners of single-family homes, yet still have energy efficiency needs. I recommend that the goals for participation be greatly increased as well. Currently, OUC has a target of 40 measures for 2025 for Efficiency Delivered. Measures are not customers, but rather the item being used towards energy efficiency. I believe this is a crude way of tracking energy efficiency goals because OUC is not tracking how many customers it is reaching. For instance, if OUC were to give one customer three LED light bulbs, it would be considered three measures. Given that OUC is able to reach thousands of customers per year through its commercial programs, it should try to achieve something similar in its Efficiency Delivered program. I recommend multiplying its participation goal by a factor of 100 so that it tries to reach 4,000 measures in 2025 and escalates from there. Given that many OUC customers are likely to benefit from the implementation of multiple measures, this seems like a very reasonable goal. My recommendation for the goals for the program is reflected below. As the tables from Exhibit JH-16 do not have enough significant digits on energy savings for this program, I have taken a document produced in discovery to show more digits, attached as Exhibit MM-35, and have summarized my recommendations for the Efficiency Delivered program in the tables below.

OUC Efficiency Delivered: Annual GWh			
Year	OUC Proposed Goal	My Recommended Goal	Difference
2025	0.0735	7.35	7.28
2026	0.0772	7.72	7.64
2027	0.0809	8.09	8.01
2028	0.0846	8.46	8.38
2029	0.0883	8.83	8.74
2030	0.0919	9.19	9.1
2031	0.0959	9.59	9.49
2032	0.101	10.1	10
2033	0.106	10.6	10.5
2034	0.112	11.2	11.1

OUC Efficiency Delivered: Winter MW			
Year	OUC Proposed Goal	My Recommended Goal	Difference
2025	0.0119	1.19	1.18
2026	0.0126	1.26	1.25
2027	0.0133	1.33	1.32
2028	0.0141	1.41	1.4
2029	0.0148	1.48	1.47
2030	0.0155	1.55	1.53
2031	0.0162	1.62	1.6
2032	0.0171	1.71	1.69
2033	0.0181	1.81	1.79
2034	0.0192	1.92	1.9

OUC Efficiency Delivered: Summer MW			
Year	OUC Proposed Goal	My Recommended Goal	Difference
2025	0.0094	0.94	0.93
2026	0.0094	0.94	0.93
2027	0.0094	0.94	0.93
2028	0.0095	0.95	0.94
2029	0.0096	0.96	0.95
2030	0.0097	0.97	0.96
2031	0.0098	0.98	0.97
2032	0.0101	1.01	1
2033	0.0103	1.03	1.02
2034	0.0107	1.07	1.06

Q. Please summarize your recommended changes to OUC's proposed goals.

A. Please see the tables below for my recommendations regarding OUC's proposed residential goals.

OUC Residential Goals Summary: Annual GWh			
Year	OUC Proposed Goal	Additional Goal	Total New Goal
2025	1.04	7.28	8.32
2026	1.09	7.64	8.73
2027	1.15	8.01	9.16
2028	1.2	8.38	9.58
2029	1.26	8.74	10
2030	1.31	9.1	10.41
2031	1.37	9.49	10.86
2032	1.45	10	11.45
2033	1.53	10.5	12.03
2034	1.62	11.1	12.72

OUC Residential Goals Summary: Winter MW			
Year	OUC Proposed Goal	Additional Goal	Total New Goal
2025	0.18	1.18	1.36
2026	0.19	1.25	1.44
2027	0.2	1.32	1.52
2028	0.21	1.4	1.61
2029	0.22	1.47	1.69
2030	0.23	1.53	1.76
2031	0.24	1.6	1.84
2032	0.25	1.69	1.94
2033	0.27	1.79	2.06
2034	0.28	1.9	2.18

OUC Residential Goals Summary: Summer MW			
Year	OUC Proposed Goal	Additional Goal	Total New Goal
2025	0.11	0.93	1.04
2026	0.11	0.93	1.04
2027	0.11	0.93	1.04
2028	0.11	0.94	1.05
2029	0.11	0.95	1.06
2030	0.12	0.96	1.08
2031	0.12	0.97	1.09
2032	0.12	1	1.12
2033	0.13	1.02	1.15
2034	0.13	1.06	1.19

Q. Do you have any opinions regarding JEA's proposals in this case?

A. Yes. JEA is proposing to discontinue its Solar Water Heating incentive program and add two other programs: Home Efficiency Upgrades Program and Energy Efficient Products Program. These changes make sense to me, and I support these changes. However, its low-income targeted program continues

to be Neighborhood Energy Efficiency, and I continue to believe there is additional room to grow this program.

Q. What do you mean?

A. As shown by Exhibit MM-18, JEA has over 100,000 customers eligible for its Neighborhood Energy Efficiency Program, growing by thousands of customers every year. Additionally, Jacksonville has an energy burden 13% higher than the national average, and 100% of its neighborhoods with high energy burdens are predominately Black and/or African-American communities. Exhibit MM-35. Yet despite these jarring stats, JEA has woefully hovered around meeting 1% of those customers every year and is on track in its current proposal to do something similar. JEA can and must do better to meet the needs of its low-income customers. Therefore, I propose JEA multiply its goal for the Neighborhood Energy Efficiency program by a factor of five. Also, I encourage JEA to consider including measures from its Home Efficiency Upgrades program and Energy Efficient Products program in its Neighborhood Energy Efficiency program. My recommendations for the goals for the Neighborhood Energy Efficiency program are reflected in the tables below.

JEA Neighborhood Energy Efficiency Program: Annual GWh			
Year	JEA Proposed Goal	My Recommended Goal	Difference
2025	1.078	5.388	4.312
2026	1.086	5.428	4.344
2027	1.094	5.468	4.376
2028	1.101	5.505	4.404
2029	1.109	5.545	4.436
2030	1.117	5.585	4.468
2031	1.125	5.625	4.5
2032	1.133	5.665	4.532
2033	1.141	5.705	4.564
2034	1.149	5.745	4.596

JEA Neighborhood Energy Efficiency Program: Winter MW			
Year	JEA Proposed Goal	My Recommended Goal	Difference
2025	0.26	1.3	1.04
2026	0.26	1.3	1.04
2027	0.26	1.3	1.04
2028	0.26	1.3	1.04
2029	0.26	1.3	1.04
2030	0.26	1.3	1.04
2031	0.27	1.35	1.08
2032	0.27	1.35	1.08
2033	0.27	1.35	1.08
2034	0.27	1.35	1.08

JEA Neighborhood Energy Efficiency Program: Summer MW			
Year	JEA Proposed Goal	My Recommended Goal	Difference
2025	0.15	0.75	0.6
2026	0.15	0.75	0.6
2027	0.15	0.75	0.6
2028	0.15	0.75	0.6
2029	0.15	0.75	0.6
2030	0.15	0.75	0.6
2031	0.15	0.75	0.6
2032	0.15	0.75	0.6
2033	0.15	0.75	0.6
2034	0.15	0.75	0.6

Q. Please summarize your recommended changes to JEA's proposed energy efficiency goals.

A. The tables below present my overall recommended residential goals for JEA based off of my proposed increase in participation in JEA's Residential Neighborhood program.

JEA Residential Goals Summary: Annual GWh			
Year	JEA Proposed Goal	Additional Goal	Total New Goal
2025	3.172	4.312	7.484
2026	3.67	4.344	8.014
2027	4.257	4.376	8.633
2028	4.917	4.404	9.321
2029	5.608	4.436	10.04
2030	6.25	4.468	10.72
2031	6.733	4.5	11.23
2032	6.951	4.532	11.48
2033	6.85	4.564	11.41
2034	6.474	4.596	11.07

JEA Residential Goals Summary: Winter MW			
Year	JEA Proposed Goal	Additional Goal	Total New Goal
2025	0.88	1.04	1.92
2026	0.99	1.04	2.03
2027	1.11	1.04	2.15
2028	1.25	1.04	2.29
2029	1.38	1.04	2.42
2030	1.51	1.04	2.55
2031	1.6	1.08	2.68
2032	1.65	1.08	2.73
2033	1.63	1.08	2.71
2034	1.57	1.08	2.65

JEA Residential Goals Summary: Summer MW			
Year	JEA Proposed Goal	Additional Goal	Total New Goal
2025	0.68	0.6	1.28
2026	0.84	0.6	1.44
2027	1.03	0.6	1.63
2028	1.26	0.6	1.86
2029	1.5	0.6	2.1
2030	1.73	0.6	2.33
2031	1.9	0.6	2.5
2032	1.96	0.6	2.56
2033	1.89	0.6	2.49
2034	1.7	0.6	2.3

Q. Please summarize your testimony.

A. Florida's electric utilities, especially the investor-owned utilities, have some of the highest residential electricity bills in the nation, with TECO and Duke leading the way and FPL not far behind. The energy efficiency being conducted in the State is terribly low compared to national averages, and Florida's refusal to engage in meaningful energy efficiency programming has not resulted in lower electricity bills or rates. In fact, quite the opposite has happened. Florida's residential electricity bills continue to climb compared to national averages, while our energy efficiency performance continues to rank towards the bottom. Given all of the energy use in Florida, there are many opportunities to increase energy efficiency programming. My testimony has focused on the residential sector, especially the low-income residential sector. I believe that my proposals are pretty conservative and modest compared to what could be achieved in a cost-effective manner. By focusing on increasing participation in programs the utilities have already proposed, I have simply

proposed to increase the size of programs that the utilities have decided are cost-effective enough for their program planning and goal-setting purposes. The need in Florida for additional energy-efficiency programs, especially for low-income customers, is clear and critical. The utilities should aim for the participation levels achieved (scaled for the relative size of the respective utilities) with the savings per participant achieved by Duke. Instead of focusing the majority of funding on rebates to the largest commercial and industrial customers, which rarely, if ever, have their power interrupted (rebates mainly paid for by residential customers), funding should shift to where the need is and where the funding comes from – residential customers. For too long, residential customers have been treated as the piggy bank to fund giveaways to the largest corporate customers, even though residential customers are the ones who can least afford to be the bank. I'm here to say the piggy bank is empty and it's time to put some money back.

Q. Does this conclude your testimony?

A. Yes, it does.

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[i] Ariel Drehobl, Lauren Ross, & Roxana Ayala, American Council for an Energy-Efficient Economy, How High Are Household Energy Burdens? at 9-13 (2020), https://www.aceee.org/research-report/u2006.

[ii] Ian Livingston, *Florida is roasting in extreme heat and on pace for a record-warm year*, Washington Post (Aug. 11, 2023), https://www.washingtonpost.com/weather/2023/08/11/florida-record-heat-climate-summer/.

[iii] Nat'l Oceanic & Atmospheric Admin., *NOAA predicts above-normal 2024 Atlantic hurricane season* (May 23, 2024), https://www.noaa.gov/news-release/noaa-predicts-above-normal-2024-atlantic-hurricane-season.

UTILITY CHARATERISTICS							RESIDENTIAL			
							Revenue	Sales	Customers	Average Annual Bill
2023	12	88888	State Total	HI		Preliminary	100,007.653	240,422.773	446,136	$213.23
2023	12	88888	State Total	CT		Preliminary	311,176.807	1,158,563.112	1,543,452	$202.53
2023	12	88888	State Total	NH		Preliminary	106,336.302	425,730.335	647,710	$169.20
2023	12	88888	State Total	FL		Preliminary	1,374,796.405	9,011,012.102	10,275,386	$167.76
2023	12	88888	State Total	MA		Preliminary	462,470.636	1,603,025.958	2,880,163	$164.51
2023	12	88888	State Total	AL		Preliminary	380,912.418	2,695,513.773	2,369,040	$163.76
2023	12	88888	State Total	TX		Preliminary	1,566,122.304	10,743,563.749	12,145,036	$163.14
2023	12	88888	State Total	MS		Preliminary	188,474.960	1,421,976.695	1,363,020	$157.06
2023	12	88888	State Total	RI		Preliminary	73,553.915	238,158.297	428,050	$155.21
2023	12	88888	State Total	ME		Preliminary	117,631.781	419,586.672	739,388	$153.60
2023	12	88888	State Total	AZ		Preliminary	346,286.933	2,403,659.688	3,070,519	$149.32
2023	12	88888	State Total	MD		Preliminary	425,024.742	2,433,700.930	2,438,664	$148.86
2023	12	88888	State Total	SC		Preliminary	376,055.981	2,762,477.534	2,542,771	$146.49
2023	12	88888	State Total	NV		Preliminary	140,410.135	902,755.145	1,294,126	$146.09
2023	12	88888	State Total	GA		Preliminary	647,432.644	5,062,699.843	4,768,296	$144.97
2023	12	88888	State Total	VA		Preliminary	576,507.027	4,237,244.760	3,655,480	$143.66
2023	12	88888	State Total	PA		Preliminary	863,316.041	4,924,753.628	5,521,473	$143.54
2023	12	88888	State Total	CA		Preliminary	1,908,167.866	6,554,619.374	14,078,011	$142.84
2023	12	88888	State Total	LA		Preliminary	252,840.916	2,217,970.609	2,176,420	$141.75
2023	12	88888	State Total	TN		Preliminary	426,539.493	3,502,205.448	3,058,435	$140.81
2023	12	88888	State Total	DE		Preliminary	69,902.516	428,317.359	466,012	$139.43
2023	12	88888	State Total	WV		Preliminary	149,030.480	1,114,999.611	866,277	$138.85
2023	12	88888	State Total	AK		Preliminary	52,149.292	211,108.970	298,426	$136.88
2023	12	88888	State Total	IN		Preliminary	400,435.829	2,746,700.885	2,980,671	$134.08
2023	12	88888	State Total	NC		Preliminary	738,056.461	5,583,156.074	5,017,625	$132.17
2023	12	88888	State Total	OK		Preliminary	207,013.373	1,883,329.738	1,879,305	$131.09
2023	12	88888	State Total	MO		Preliminary	343,577.897	2,982,533.597	2,849,473	$130.82
2023	12	88888	State Total	KY		Preliminary	275,579.541	2,257,601.599	2,028,697	$129.99
2023	12	88888	State Total	AR		Preliminary	174,049.689	1,498,696.898	1,472,351	$129.73
2023	12	88888	State Total	OH		Preliminary	687,871.476	4,382,831.610	5,096,595	$126.56
2023	12	88888	State Total	NY		Preliminary	968,556.652	4,300,171.424	7,389,182	$126.33
2023	12	88888	State Total	SD		Preliminary	54,953.193	470,092.738	432,794	$125.91
2023	12	88888	State Total	KS		Preliminary	135,015.437	1,041,645.688	1,334,413	$119.56
2023	12	88888	State Total	ND		Preliminary	51,433.141	502,764.374	396,395	$117.97
2023	12	88888	State Total	VT		Preliminary	44,143.001	209,346.373	320,092	$117.51
2023	12	88888	State Total	OR		Preliminary	252,112.033	2,006,715.728	1,859,586	$116.66
2023	12	88888	State Total	NJ		Preliminary	402,447.322	2,288,285.840	3,719,353	$113.49
2023	12	88888	State Total	IA		Preliminary	162,869.985	1,370,496.396	1,458,596	$113.29
2023	12	88888	State Total	MI		Preliminary	528,704.526	2,850,612.380	4,517,437	$112.99
2023	12	88888	State Total	NE		Preliminary	101,171.586	956,616.270	905,871	$111.52
2023	12	88888	State Total	MN		Preliminary	290,109.792	2,081,806.811	2,583,172	$111.09
2023	12	88888	State Total	WI		Preliminary	327,536.201	1,987,500.486	2,833,054	$111.07
2023	12	88888	State Total	MT		Preliminary	73,435.258	582,399.711	554,171	$108.55

2023	12	88888	State Total	WA		Preliminary	436,606.566	3,970,383.252	3,331,698	$107.15
2023	12	88888	State Total	ID		Preliminary	115,824.824	998,655.641	852,442	$106.68
2023	12	88888	State Total	IL		Preliminary	543,063.621	3,625,916.532	5,409,121	$106.57
2023	12	88888	State Total	DC		Preliminary	33,203.386	187,079.260	315,555	$103.24
2023	12	88888	State Total	WY		Preliminary	32,966.435	294,121.134	286,024	$99.64
2023	12	88888	State Total	CO		Preliminary	246,107.166	1,739,452.371	2,472,310	$98.45
2023	12	88888	State Total	NM		Preliminary	82,244.435	602,378.436	914,667	$95.30
2023	12	88888	State Total	UT		Preliminary	101,770.759	937,121.675	1,213,815	$86.60

2022 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New England	**6,564,756**	**615**	**24.73**	**152.08**
Connecticut	1,536,217	716	24.61	176.10
Maine	728,053	583	22.44	130.78
Massachusetts	2,888,583	577	25.97	149.91
New Hampshire	642,870	623	25.46	158.67
Rhode Island	448,184	589	23.21	136.74
Vermont	320,849	568	19.93	113.21
Middle Atlantic	**16,526,130**	**699**	**18.43**	**128.88**
New Jersey	3,675,569	682	16.74	114.08
New York	7,346,236	592	22.08	130.81
Pennsylvania	5,504,325	854	15.94	136.17
East North Central	**20,709,073**	**772**	**15.36**	**118.55**
Illinois	5,376,734	720	15.65	112.74
Indiana	2,988,151	950	14.59	138.61
Michigan	4,475,317	652	17.86	116.49
Ohio	5,082,414	874	13.85	121.07
Wisconsin	2,786,457	684	15.62	106.94
West North Central	**9,818,380**	**950**	**12.63**	**119.95**
Iowa	1,426,164	888	13.15	116.70
Kansas	1,297,400	928	13.99	129.80
Minnesota	2,523,110	773	14.25	110.19
Missouri	2,882,259	1,077	11.74	126.46
Nebraska	877,619	1,043	10.79	112.57
North Dakota	392,470	1,119	10.92	122.20
South Dakota	419,358	1,058	12.09	127.92
South Atlantic	**29,674,453**	**1,078**	**13.44**	**144.85**
Delaware	461,484	941	13.71	128.99
District of Columbia	306,464	685	14.18	97.15
Florida	10,066,753	1,111	13.90	154.51
Georgia	4,648,898	1,096	13.80	151.25
Maryland	2,415,655	968	14.46	139.99
North Carolina	4,855,658	1,072	11.62	124.48
South Carolina	2,472,265	1,088	13.59	147.87
Virginia	3,583,371	1,086	13.34	144.96
West Virginia	863,905	1,074	13.23	142.13
East South Central	**8,762,386**	**1,163**	**12.96**	**150.69**
Alabama	2,329,559	1,178	14.25	167.80
Kentucky	2,045,252	1,094	12.91	141.23
Mississippi	1,329,184	1,186	12.41	147.25
Tennessee	3,058,391	1,188	12.25	145.49
West South Central	**17,476,183**	**1,177**	**13.39**	**157.51**
Arkansas	1,445,528	1,110	12.05	133.78
Louisiana	2,128,425	1,231	12.93	159.24
Oklahoma	1,839,083	1,155	12.44	143.65
Texas	12,063,147	1,178	13.76	162.17
Mountain	**10,541,628**	**876**	**12.79**	**111.96**
Arizona	3,013,393	1,061	13.02	138.13
Colorado	2,480,555	692	14.19	98.18
Idaho	826,329	1,005	10.37	104.23

2022 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
Montana	540,745	908	11.33	102.94
Nevada	1,270,155	939	13.78	129.35
New Mexico	921,109	659	13.84	91.21
Utah	1,207,878	783	10.84	84.87
Wyoming	281,464	891	11.09	98.78
Pacific Contiguous	**19,041,965**	**657**	**19.72**	**129.47**
California	13,942,174	535	25.84	138.29
Oregon	1,826,286	946	11.42	108.03
Washington	3,273,505	1,013	10.26	103.84
Pacific Noncontiguous	**739,224**	**541**	**34.51**	**186.72**
Alaska	294,370	580	23.10	134.11
Hawaii	444,854	515	43.03	221.53
U.S. Total	**139,854,178**	**899**	**15.04**	**135.25**

2021 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New England	**6,496,631**	**623**	**21.51**	**134.10**
Connecticut	1,530,251	713	21.91	156.21
Maine	722,038	584	17.02	99.44
Massachusetts	2,840,311	596	22.89	136.37
New Hampshire	638,267	631	19.85	125.24
Rhode Island	446,320	585	22.30	130.40
Vermont	319,444	567	19.26	109.24
Middle Atlantic	**16,382,493**	**703**	**16.48**	**115.88**
New Jersey	3,648,914	687	16.35	112.39
New York	7,256,212	599	19.48	116.70
Pennsylvania	5,477,367	851	13.76	117.11
East North Central	**20,572,452**	**779**	**14.07**	**109.55**
Illinois	5,361,717	728	13.18	95.86
Indiana	2,948,803	946	13.37	126.51
Michigan	4,458,038	670	17.54	117.57
Ohio	5,041,904	879	12.77	112.21
Wisconsin	2,761,990	690	14.52	100.18
West North Central	**9,738,760**	**922**	**12.19**	**112.41**
Iowa	1,417,424	861	12.73	109.63
Kansas	1,289,344	890	12.98	115.53
Minnesota	2,496,406	776	13.50	104.76
Missouri	2,861,933	1,039	11.41	118.55
Nebraska	869,656	1,005	10.75	108.09
North Dakota	391,340	1,041	10.85	112.93
South Dakota	412,657	1,019	12.22	124.50
South Atlantic	**29,242,289**	**1,068**	**12.10**	**129.27**
Delaware	453,758	950	12.52	118.85
District of Columbia	298,337	706	13.09	92.42
Florida	9,917,113	1,096	11.90	130.40
Georgia	4,560,653	1,072	12.51	134.11
Maryland	2,395,954	973	13.12	127.62
North Carolina	4,774,592	1,063	11.32	120.38
South Carolina	2,426,703	1,078	12.86	138.65
Virginia	3,551,532	1,094	11.96	130.92
West Virginia	863,647	1,066	12.15	129.61
East South Central	**8,679,019**	**1,147**	**11.74**	**134.62**
Alabama	2,308,226	1,140	12.96	147.75
Kentucky	2,032,575	1,084	11.50	124.67
Mississippi	1,321,576	1,171	11.56	135.31
Tennessee	3,016,642	1,183	11.07	130.98
West South Central	**17,196,465**	**1,106**	**11.78**	**130.20**
Arkansas	1,436,246	1,098	11.27	123.69
Louisiana	2,126,155	1,192	11.02	131.37
Oklahoma	1,818,813	1,088	11.00	119.69
Texas	11,815,251	1,094	12.11	132.40
Mountain	**10,354,186**	**869**	**12.04**	**104.60**
Arizona	2,953,823	1,048	12.54	131.35
Colorado	2,443,109	704	13.07	91.96
Idaho	806,421	961	10.16	97.62
Montana	531,398	872	11.22	97.84
Nevada	1,249,392	959	11.49	110.17

2021 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New Mexico	914,495	646	13.52	87.31
Utah	1,176,949	775	10.43	80.87
Wyoming	278,599	867	11.17	96.82
Pacific Contiguous	**18,910,491**	**655**	**18.01**	**117.90**
California	13,883,994	542	22.82	123.67
Oregon	1,805,684	936	11.37	106.49
Washington	3,220,813	984	10.11	99.45
Pacific Noncontiguous	**735,986**	**556**	**28.85**	**160.34**
Alaska	292,451	594	22.55	133.89
Hawaii	443,535	531	33.49	177.78
U.S. Total	**138,308,772**	**886**	**13.66**	**121.01**

2020 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New England	**6,447,975**	**625**	**21.25**	**132.71**
Connecticut	1,521,112	711	22.71	161.55
Maine	717,559	570	16.81	95.77
Massachusetts	2,817,549	602	21.97	132.18
New Hampshire	633,234	630	19.04	120.01
Rhode Island	441,573	594	22.01	130.75
Vermont	316,948	567	19.54	110.79
Middle Atlantic	**16,305,858**	**701**	**15.93**	**111.75**
New Jersey	3,618,587	683	16.03	109.54
New York	7,239,162	602	18.36	110.47
Pennsylvania	5,448,109	846	13.58	114.90
East North Central	**20,440,854**	**776**	**13.56**	**105.18**
Illinois	5,339,610	721	13.04	93.98
Indiana	2,920,266	938	12.83	120.34
Michigan	4,423,595	676	16.26	109.86
Ohio	5,014,959	873	12.29	107.30
Wisconsin	2,742,424	694	14.32	99.42
West North Central	**9,644,469**	**922**	**11.96**	**110.27**
Iowa	1,403,386	865	12.46	107.78
Kansas	1,282,532	883	12.85	113.52
Minnesota	2,464,753	775	13.17	102.11
Missouri	2,833,918	1,028	11.22	115.35
Nebraska	864,842	1,013	10.80	109.39
North Dakota	387,506	1,085	10.44	113.26
South Dakota	407,532	1,037	11.75	121.77
South Atlantic	**28,773,632**	**1,079**	**11.79**	**127.28**
Delaware	446,276	932	12.56	117.09
District of Columbia	290,466	704	12.63	88.89
Florida	9,731,237	1,142	11.27	128.64
Georgia	4,487,431	1,081	12.02	129.92
Maryland	2,376,983	957	13.01	124.50
North Carolina	4,695,096	1,041	11.38	118.44
South Carolina	2,377,020	1,081	12.78	138.16
Virginia	3,506,844	1,095	12.03	131.72
West Virginia	862,279	1,051	11.80	124.09
East South Central	**8,533,282**	**1,136**	**11.34**	**128.80**
Alabama	2,280,741	1,145	12.57	143.95
Kentucky	2,013,910	1,073	10.87	116.62
Mississipp	1,308,149	1,146	11.17	128.08
Tennessee	2,930,482	1,168	10.76	125.70
West South Central	**16,837,380**	**1,129**	**11.17**	**126.14**
Arkansas	1,413,490	1,060	10.41	110.33
Louisiana	2,112,928	1,201	9.67	116.07
Oklahoma	1,795,629	1,078	10.12	109.07
Texas	11,515,333	1,132	11.71	132.59
Mountain	**10,153,253**	**891**	**11.76**	**104.78**

2020 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
Arizona	2,896,339	1,114	12.27	136.70
Colorado	2,400,357	711	12.36	87.88
Idaho	782,559	955	9.95	95.04
Montana	522,382	858	11.24	96.49
Nevada	1,226,566	973	11.34	110.36
New Mexico	905,885	670	12.94	86.66
Utah	1,143,136	769	10.44	80.24
Wyoming	276,029	869	11.11	96.59
Pacific Contiguous	**18,788,088**	**672**	**16.67**	**111.97**
California	13,834,719	572	20.45	116.94
Oregon	1,785,131	916	11.17	102.32
Washington	3,168,238	969	9.87	95.72
Pacific Noncontiguous	**757,210**	**543**	**27.02**	**146.84**
Alaska	315,208	552	22.57	124.66
Hawaii	442,002	537	30.28	162.66
U.S. Total	**136,682,001**	**893**	**13.15**	**117.46**

2019 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New England	**6,411,587**	**600**	**21.10**	**126.65**
Connecticut	1,510,966	689	21.87	150.71
Maine	710,869	562	17.89	100.53
Massachusetts	2,802,099	574	21.92	125.89
New Hampshire	627,257	599	20.05	120.04
Rhode Island	444,216	560	21.73	121.62
Vermont	316,180	549	17.71	97.18
Middle Atlantic	**16,251,104**	**683**	**15.80**	**107.89**
New Jersey	3,596,834	663	15.85	105.07
New York	7,235,400	577	17.94	103.60
Pennsylvania	5,418,870	837	13.80	115.47
East North Central	**20,287,076**	**765**	**13.39**	**102.40**
Illinois	5,314,522	709	13.03	92.37
Indiana	2,887,031	960	12.58	120.74
Michigan	4,384,305	637	15.74	100.23
Ohio	4,980,931	874	12.38	108.15
Wisconsin	2,720,287	674	14.18	95.52
West North Central	**9,570,282**	**928**	**11.86**	**110.09**
Iowa	1,392,979	867	12.46	108.04
Kansas	1,274,955	891	12.71	113.26
Minnesota	2,446,111	759	13.04	99.02
Missouri	2,811,863	1,058	11.14	117.82
Nebraska	855,619	1,004	10.77	108.08
North Dakota	385,038	1,109	10.30	114.27
South Dakota	403,717	1,044	11.55	120.60
South Atlantic	**28,325,448**	**1,090**	**11.93**	**130.04**
Delaware	439,167	950	12.55	119.16
District of Columbia	282,277	752	12.98	97.62
Florida	9,565,846	1,108	11.70	129.65
Georgia	4,411,521	1,121	11.76	131.84
Maryland	2,352,535	975	13.12	127.92
North Carolina	4,620,856	1,079	11.42	123.25
South Carolina	2,330,903	1,114	12.99	144.73
Virginia	3,464,677	1,122	12.07	135.46
West Virginia	857,666	1,084	11.25	121.90
East South Central	**8,448,897**	**1,186**	**11.36**	**134.81**
Alabama	2,249,425	1,201	12.53	150.45
Kentucky	1,991,137	1,112	10.80	120.08
Mississipp	1,293,419	1,206	11.27	135.87
Tennessee	2,914,916	1,217	10.87	132.33
West South Central	**16,636,131**	**1,147**	**11.17**	**128.17**
Arkansas	1,396,870	1,118	9.80	109.46
Louisiana	2,095,466	1,232	9.80	120.70
Oklahoma	1,777,156	1,116	10.21	113.93
Texas	11,366,639	1,140	11.76	134.07
Mountain	**9,994,348**	**838**	**11.81**	**98.94**

2019 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
Arizona	2,853,183	1,014	12.43	126.09
Colorado	2,370,164	682	12.18	83.07
Idaho	763,841	949	9.89	93.83
Montana	516,052	857	11.13	95.43
Nevada	1,204,996	890	12.00	106.83
New Mexico	895,086	640	12.51	80.04
Utah	1,116,145	727	10.40	75.63
Wyoming	274,881	864	11.18	96.53
Pacific Contiguous	**18,597,101**	**642**	**15.65**	**100.52**
California	13,707,126	532	19.15	101.92
Oregon	1,763,783	911	11.01	100.35
Washington	3,126,192	973	9.71	94.49
Pacific Noncontiguous	**727,642**	**537**	**28.30**	**151.94**
Alaska	289,290	555	22.92	127.29
Hawaii	438,352	525	32.06	168.21
U.S. Total	**135,249,616**	**887**	**13.01**	**115.49**

2018 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New England	**6,377,606**	**628**	**20.60**	**129.49**
Connecticut	1,503,701	724	21.20	153.46
Maine	709,848	572	16.84	96.33
Massachusetts	2,784,243	607	21.61	131.20
New Hampshire	622,671	621	19.69	122.27
Rhode Island	442,005	589	20.55	121.05
Vermont	315,138	560	18.02	100.83
Middle Atlantic	**16,149,378**	**710**	**15.97**	**113.39**
New Jersey	3,568,044	690	15.41	106.28
New York	7,190,906	604	18.52	111.93
Pennsylvania	5,390,428	864	13.89	120.04
East North Central	**20,183,966**	**800**	**13.25**	**106.03**
Illinois	5,289,573	744	12.77	94.98
Indiana	2,863,358	1,006	12.26	123.39
Michigan	4,365,529	671	15.45	103.59
Ohio	4,964,855	914	12.56	114.80
Wisconsin	2,700,651	693	14.02	97.09
West North Central	**9,497,228**	**964**	**12.00**	**115.68**
Iowa	1,385,756	892	12.24	109.27
Kansas	1,266,044	934	13.35	124.68
Minnesota	2,420,325	786	13.14	103.34
Missouri	2,792,459	1,118	11.34	126.79
Nebraska	849,898	1,021	10.70	109.27
North Dakota	382,596	1,118	10.25	114.60
South Dakota	400,150	1,045	11.59	121.16
South Atlantic	**27,947,855**	**1,116**	**11.70**	**130.51**
Delaware	432,449	977	12.53	122.43
District of Columbia	274,613	787	12.84	101.01
Florida	9,423,022	1,110	11.54	128.10
Georgia	4,354,021	1,142	11.47	131.05
Maryland	2,332,517	1,005	13.30	133.68
North Carolina	4,550,420	1,129	11.09	125.17
South Carolina	2,290,200	1,159	12.44	144.20
Virginia	3,431,574	1,165	11.73	136.59
West Virginia	859,039	1,133	11.18	126.70
East South Central	**8,382,954**	**1,237**	**11.14**	**137.80**
Alabama	2,229,472	1,236	12.18	150.54
Kentucky	1,980,209	1,166	10.60	123.57
Mississippi	1,290,281	1,247	11.12	138.63
Tennessee	2,882,992	1,283	10.71	137.35
West South Central	**16,387,177**	**1,183**	**10.77**	**127.42**
Arkansas	1,388,358	1,156	9.81	113.36
Louisiana	2,085,055	1,282	9.59	122.86
Oklahoma	1,764,980	1,139	10.30	117.28
Texas	11,148,784	1,176	11.20	131.63
Mountain	**9,825,511**	**851**	**11.94**	**101.55**
Arizona	2,808,352	1,028	12.77	131.31
Colorado	2,326,976	691	12.15	83.90
Idaho	743,567	944	10.15	95.84
Montana	509,526	850	10.96	93.19
Nevada	1,183,660	947	11.85	112.18

2018 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New Mexico	889,841	639	12.68	81.08
Utah	1,091,162	742	10.41	77.25
Wyoming	272,427	841	11.29	94.90
Pacific Contiguous	**18,418,260**	**649**	**15.56**	**100.93**
California	13,591,152	546	18.84	102.90
Oregon	1,750,240	901	10.98	99.00
Washington	3,076,868	957	9.75	93.34
Pacific Noncontiguous	**723,792**	**539**	**28.03**	**151.22**
Alaska	287,526	572	21.94	125.57
Hawaii	436,266	518	32.47	168.13
U.S. Total	**133,893,727**	**914**	**12.87**	**117.65**

2017 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New England	**6,338,673**	**603**	**19.41**	**116.97**
Connecticut	1,495,577	690	20.29	139.97
Maine	707,792	546	15.97	87.21
Massachusetts	2,766,154	583	20.06	116.86
New Hampshire	618,356	599	19.20	114.95
Rhode Island	437,124	577	18.32	105.76
Vermont	313,670	538	17.68	95.02
Middle Atlantic	**16,037,193**	**668**	**15.99**	**106.79**
New Jersey	3,536,087	654	15.65	102.38
New York	7,144,413	572	18.03	103.22
Pennsylvania	5,356,693	805	14.23	114.48
East North Central	**20,060,556**	**745**	**13.36**	**99.50**
Illinois	5,264,333	692	12.95	89.63
Indiana	2,834,090	928	12.29	114.04
Michigan	4,344,321	633	15.40	97.41
Ohio	4,936,471	841	12.63	106.13
Wisconsin	2,681,341	660	14.35	94.67
West North Central	**9,427,746**	**889**	**12.13**	**107.75**
Iowa	1,375,599	831	12.34	102.55
Kansas	1,259,226	861	13.31	114.65
Minnesota	2,403,168	748	13.04	97.58
Missouri	2,771,123	994	11.63	115.60
Nebraska	841,965	957	10.97	104.96
North Dakota	380,101	1,063	10.29	109.38
South Dakota	396,564	978	11.77	115.06
South Atlantic	**27,592,479**	**1,055**	**11.86**	**125.15**
Delaware	426,071	912	13.35	121.73
District of Columbia	267,448	746	12.94	96.52
Florida	9,291,707	1,089	11.61	126.44
Georgia	4,296,977	1,062	11.90	126.38
Maryland	2,313,189	940	13.96	131.16
North Carolina	4,488,039	1,042	10.94	113.98
South Carolina	2,251,558	1,082	13.02	140.80
Virginia	3,398,529	1,078	11.55	124.54
West Virginia	858,961	1,026	11.63	119.30
East South Central	**8,316,868**	**1,120**	**11.30**	**126.58**
Alabama	2,213,592	1,136	12.55	142.55
Kentucky	1,971,002	1,052	10.85	114.15
Mississippi	1,284,578	1,132	11.08	125.38
Tennessee	2,847,696	1,150	10.72	123.30
West South Central	**16,014,300**	**1,107**	**10.74**	**118.79**
Arkansas	1,380,157	1,028	10.28	105.64
Louisiana	2,073,615	1,187	9.74	115.54
Oklahoma	1,751,034	1,039	10.61	110.27
Texas	10,809,494	1,112	11.01	122.47
Mountain	**9,761,430**	**841**	**11.89**	**100.03**
Arizona	2,764,355	1,033	12.44	128.40
Colorado	2,288,358	678	12.17	82.47
Idaho	727,568	1,000	10.04	100.38
Montana	503,313	865	10.95	94.75
Nevada	1,263,101	854	11.99	102.29

2017 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New Mexico	880,867	615	12.88	79.16
Utah	1,063,292	745	10.95	81.65
Wyoming	270,576	854	11.37	97.10
Pacific Contiguous	**18,311,853**	**671**	**15.08**	**101.21**
California	13,548,295	554	18.31	101.49
Oregon	1,725,884	969	10.66	103.26
Washington	3,037,674	1,023	9.66	98.78
Pacific Noncontiguous	**718,649**	**544**	**25.89**	**140.78**
Alaska	285,697	601	21.27	127.83
Hawaii	432,952	506	29.50	149.33
U.S. Total	**132,579,747**	**867**	**12.89**	**111.67**

2016 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New England	**6,290,389**	**616**	**18.81**	**115.93**
Connecticut	1,486,741	711	20.01	142.19
Maine	699,321	546	15.83	86.48
Massachusetts	2,740,865	599	19.00	113.77
New Hampshire	612,716	604	18.38	110.95
Rhode Island	438,507	586	18.62	109.02
Vermont	312,239	549	17.37	95.31
Middle Atlantic	**15,964,597**	**698**	**15.68**	**109.50**
New Jersey	3,510,141	691	15.72	108.58
New York	7,118,901	595	17.58	104.58
Pennsylvania	5,335,555	841	13.86	116.67
East North Central	**19,937,976**	**785**	**13.06**	**102.55**
Illinois	5,231,541	733	12.54	91.83
Indiana	2,821,546	975	11.79	114.96
Michigan	4,311,008	668	15.22	101.64
Ohio	4,911,597	891	12.47	111.15
Wisconsin	2,662,284	683	14.07	96.08
West North Central	**9,345,853**	**917**	**11.79**	**108.13**
Iowa	1,358,902	864	11.94	103.17
Kansas	1,252,846	899	13.06	117.34
Minnesota	2,378,681	764	12.67	96.79
Missouri	2,751,460	1,041	11.21	116.63
Nebraska	834,038	973	10.84	105.47
North Dakota	377,739	1,046	10.16	106.28
South Dakota	392,187	981	11.47	112.53
South Atlantic	**27,213,237**	**1,107**	**11.56**	**127.97**
Delaware	419,234	947	13.42	127.03
District of Columbia	259,392	804	12.29	98.79
Florida	9,149,214	1,123	10.98	123.37
Georgia	4,240,421	1,138	11.50	130.87
Maryland	2,288,301	995	14.23	141.53
North Carolina	4,423,532	1,101	11.03	121.44
South Carolina	2,209,783	1,155	12.65	146.09
Virginia	3,362,985	1,120	11.36	127.14
West Virginia	860,375	1,102	11.44	126.10
East South Central	**8,248,665**	**1,198**	**10.86**	**130.20**
Alabama	2,200,574	1,214	11.99	145.55
Kentucky	1,957,188	1,121	10.49	117.65
Mississippi	1,278,616	1,203	10.47	125.91
Tennessee	2,812,287	1,238	10.41	128.89
West South Central	**15,687,117**	**1,154**	**10.59**	**122.17**
Arkansas	1,368,867	1,083	9.92	107.44
Louisiana	2,059,699	1,240	9.34	115.79
Oklahoma	1,736,819	1,093	10.20	111.49
Texas	10,521,732	1,156	10.99	127.10
Mountain	**9,529,171**	**848**	**11.65**	**98.80**
Arizona	2,725,510	1,030	12.15	125.19
Colorado	2,260,068	694	12.07	83.85
Idaho	714,365	953	9.95	94.90
Montana	497,170	813	10.94	88.95
Nevada	1,143,667	925	11.41	105.48

2016 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New Mexico	876,921	631	12.03	75.96
Utah	1,041,823	750	11.02	82.57
Wyoming	269,647	850	11.13	94.66
Pacific Contiguous	**18,137,554**	**648**	**14.59**	**94.58**
California	13,445,133	547	17.39	95.20
Oregon	1,706,622	907	10.66	96.71
Washington	2,985,799	955	9.48	90.56
Pacific Noncontiguous	**714,201**	**539**	**24.36**	**131.24**
Alaska	283,260	590	20.30	119.84
Hawaii	430,941	505	27.47	138.73
U.S. Total	**131,068,760**	**897**	**12.55**	**112.59**

2015 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New England	**6,322,833**	**626**	**19.43**	**121.60**
Connecticut	1,468,958	731	20.94	153.13
Maine	699,241	556	15.61	86.75
Massachusetts	2,794,918	602	19.83	119.26
New Hampshire	607,465	621	18.50	114.90
Rhode Island	440,191	594	19.29	114.50
Vermont	312,060	558	17.09	95.33
Middle Atlantic	**15,872,487**	**707**	**15.97**	**112.81**
New Jersey	3,489,111	696	15.81	110.04
New York	7,079,097	601	18.54	111.32
Pennsylvania	5,304,279	855	13.64	116.62
East North Central	**19,800,512**	**771**	**12.96**	**99.87**
Illinois	5,172,653	719	12.50	89.91
Indiana	2,804,861	964	11.57	111.51
Michigan	4,282,858	649	14.42	93.61
Ohio	4,892,916	877	12.80	112.25
Wisconsin	2,647,224	668	14.11	94.26
West North Central	**9,283,472**	**912**	**11.47**	**104.61**
Iowa	1,356,600	847	11.63	98.53
Kansas	1,231,830	896	12.34	110.58
Minnesota	2,374,674	762	12.12	92.32
Missouri	2,734,553	1,033	11.21	115.80
Nebraska	825,940	962	10.60	101.96
North Dakota	371,501	1,091	9.62	104.96
South Dakota	388,374	981	11.08	108.68
South Atlantic	**26,787,726**	**1,118**	**11.74**	**131.20**
Delaware	413,445	977	13.42	131.18
District of Columbia	247,469	841	12.99	109.21
Florida	8,963,967	1,141	11.58	132.16
Georgia	4,191,209	1,122	11.54	129.46
Maryland	2,255,556	1,012	13.82	139.91
North Carolina	4,336,698	1,113	11.28	125.51
South Carolina	2,185,965	1,146	12.57	144.04
Virginia	3,332,083	1,149	11.37	130.58
West Virginia	861,334	1,107	10.08	111.59
East South Central	**8,183,139**	**1,205**	**10.82**	**130.31**
Alabama	2,182,616	1,218	11.70	142.48
Kentucky	1,947,068	1,120	10.24	114.72
Mississippi	1,270,397	1,218	11.27	137.24
Tennessee	2,783,058	1,248	10.30	128.51
West South Central	**15,442,362**	**1,177**	**10.95**	**128.81**
Arkansas	1,356,658	1,122	9.82	110.22
Louisiana	2,043,760	1,286	9.33	120.02
Oklahoma	1,723,938	1,093	10.14	110.87
Texas	10,318,006	1,176	11.56	136.00
Mountain	**9,395,149**	**844**	**11.83**	**99.91**
Arizona	2,689,223	1,028	12.13	124.67
Colorado	2,225,725	688	12.12	83.42
Idaho	701,447	957	9.93	95.01
Montana	491,422	818	10.88	89.03
Nevada	1,126,220	913	12.76	116.47

2015 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New Mexico	871,047	635	12.47	79.23
Utah	1,021,839	744	10.88	80.92
Wyoming	268,226	832	10.97	91.19
Pacific Contiguous	**18,013,417**	**656**	**14.28**	**93.61**
California	13,380,684	557	16.99	94.59
Oregon	1,686,973	902	10.66	96.24
Washington	2,945,760	964	9.09	87.64
Pacific Noncontiguous	**710,621**	**549**	**25.34**	**139.22**
Alaska	282,282	603	19.83	119.64
Hawaii	428,339	514	29.60	152.12
U.S. Total	**129,811,718**	**901**	**12.65**	**114.03**

2014 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
New England	**6,243,013**	**630**	**17.82**	**112.31**
Connecticut	1,459,239	730	19.75	144.10
Maine	706,952	549	15.27	83.91
Massachusetts	2,720,128	615	17.39	106.94
New Hampshire	606,883	619	17.53	108.57
Rhode Island	438,879	583	17.17	100.09
Vermont	310,932	569	17.47	99.34
Middle Atlantic	**15,806,914**	**696**	**16.39**	**114.13**
New Jersey	3,470,874	670	15.78	105.65
New York	7,046,829	591	20.07	118.63
Pennsylvania	5,289,211	854	13.32	113.72
East North Central	**19,716,397**	**794**	**12.65**	**100.52**
Illinois	5,145,022	745	11.91	88.78
Indiana	2,784,660	1,009	11.46	115.56
Michigan	4,273,126	654	14.46	94.52
Ohio	4,882,159	901	12.50	112.62
Wisconsin	2,631,430	694	13.67	94.88
West North Central	**9,210,245**	**967**	**11.09**	**107.31**
Iowa	1,348,641	891	11.16	99.49
Kansas	1,228,858	928	12.17	112.95
Minnesota	2,345,860	810	12.01	97.26
Missouri	2,724,541	1,095	10.64	116.47
Nebraska	817,425	1,022	10.40	106.33
North Dakota	360,171	1,240	9.15	113.39
South Dakota	384,749	1,046	10.47	109.45
South Atlantic	**26,537,014**	**1,117**	**11.74**	**131.11**
Delaware	407,508	950	13.29	126.26
District of Columbia	239,355	721	12.74	91.90
Florida	8,891,020	1,092	11.89	129.86
Georgia	4,137,057	1,152	11.65	134.14
Maryland	2,234,962	1,025	13.63	139.68
North Carolina	4,303,476	1,136	11.10	126.09
South Carolina	2,157,091	1,187	12.45	147.74
Virginia	3,303,676	1,172	11.10	130.04
West Virginia	862,869	1,158	9.34	108.14
East South Central	**8,129,794**	**1,248**	**10.76**	**134.28**
Alabama	2,169,790	1,265	11.48	145.25
Kentucky	1,939,489	1,177	10.16	119.66
Mississippi	1,263,583	1,248	11.32	141.22
Tennessee	2,756,932	1,286	10.32	132.76
West South Central	**15,220,458**	**1,172**	**11.12**	**130.40**
Arkansas	1,345,009	1,143	9.51	108.63
Louisiana	2,026,223	1,291	9.57	123.61
Oklahoma	1,710,352	1,138	10.03	114.17
Texas	10,138,874	1,158	11.86	137.39
Mountain	**9,277,078**	**842**	**11.67**	**98.33**
Arizona	2,661,694	1,013	11.90	120.51
Colorado	2,193,520	687	12.18	83.73
Idaho	690,277	982	9.72	95.50

2014 Average Monthly Bill- Residential

(Data from forms EIA-861- schedules 4A-D, EIA-861S and EIA-861U)

State	Number of Customers	Average Monthly Consumption (kWh)	Average Price (cents/kWh)	Average Monthly Bill (Dollar and cents)
Montana	485,041	854	10.18	86.93
Nevada	1,110,535	894	12.93	115.64
New Mexico	869,875	633	12.28	77.79
Utah	1,000,416	747	10.65	79.49
Wyoming	265,720	863	10.50	90.60
Pacific Contiguous	**17,832,897**	**669**	**13.64**	**91.16**
California	13,256,068	562	16.25	91.26
Oregon	1,669,124	930	10.47	97.29
Washington	2,907,705	1,005	8.67	87.14
Pacific Noncontiguous	**706,606**	**546**	**29.13**	**158.99**
Alaska	281,438	605	19.14	115.79
Hawaii	425,168	506	37.04	187.59
U.S. Total	**128,680,416**	**911**	**12.52**	**114.09**

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition for Rate Increase by Tampa Electric Company	DOCKET NO. 20240026-EI
In re: Petition for approval of 2023 Depreciation and Dismantlement Study, by Tampa Electric Company	DOCKET NO. 20230139-EI
In re: Petition to implement 2024 Generation Base Rate Adjustment provisions in Paragraph 4 of the 2021 Stipulation and Settlement Agreement, by Tampa Electric Company	DOCKET NO. 20230090-EI SERVED: May 22, 2024

TAMPA ELECTRIC COMPANY'S
ANSWERS TO FLORIDA RISING & LEAGUE OF UNITED LATIN AMERICAN CITIZENS' FIRST REQUEST FOR ADMISSIONS (NOS. 1-6)

Pursuant to Rule 106.206, Florida Administrative Code, and Florida Rule of Civil Procedure 1.350, Tampa Electric Company ("Tampa Electric" or the "company"), hereby answers League of United Latin American Citizens of Florida ("LULAC") & Florida Rising's First Request for Admissions (Nos. 1-6), served May 2, 2024 ("LULAC & Florida Rising's First RFA").

General Objections

1. Tampa Electric objects to each request for admissions in LULAC & Florida Rising's First RFA ("RFA") to the extent that it seeks information that is duplicative, not relevant to the subject matter of this docket, and is not reasonably calculated to lead to the discovery of admissible evidence.

2. Tampa Electric objects to each RFA to the extent it is vague, ambiguous, overly broad, imprecise, or utilizes terms that are subject to multiple interpretations but are not properly defined or explained for purposes of such RFA. Tampa Electric will seek clarification from

LULAC & Florida Rising if a RFA is not clear, but Tampa Electric will produce documents subject to, and without waiving, this objection.

3. Tampa Electric objects to each RFA to the extent it requires Tampa Electric to produce information that is already in the public record before the Florida Public Service Commission ("FPSC" or the "Commission") or other public agency and available to LULAC & Florida Rising through normal procedures or is readily accessible through legal search engines.

4. Tampa Electric objects to each RFA to the extent that it calls for data or information protected by the attorney-client privilege, the work product doctrine, the accountant-client privilege, the trade secret privilege, or any other applicable privilege or protection afforded by law. Tampa Electric will describe the nature of the privileged material, if any, in a privilege log that will accompany its responses.

5. Tampa Electric objects to producing paper copies on the grounds that doing so would be unduly burdensome. Tampa Electric has entered into an agreement with LULAC & Florida Rising, governing discovery production and responses, and will serve its answers to the RFA and related responsive documents to LULAC & Florida Rising in electronic form via a SharePoint site to which LULAC & Florida Rising have remote access.

6. Tampa Electric objects to each Request to the extent it requires the company to provide information that it believes is "proprietary confidential business information" as described in Section 366.093, Florida Statutes. Tampa Electric will provide such confidential information to LULAC & Florida Rising in a designated confidential portion of the SharePoint site described above and subject to a Motion for Temporary Protective Order, Notice of Intent to Request Confidential Classification, and/or Request for Confidential Classification, as appropriate.

7. Tampa Electric objects to each RFA, instruction, or definition in that purports to expand Tampa Electric's obligations under applicable law.

8. Tampa Electric objects to each RFA to the extent it requests Tampa Electric to prepare information in a particular format or create data or information that it otherwise does not possess as unduly burdensome and as purporting to expand Tampa Electric's obligations under applicable law.

9. Subject to Section 366.093(1), Florida Statutes, Tampa Electric objects to any definition or RFA that requests documents from persons or entities who are not parties to this proceeding, that seek information from affiliates unrelated to transactions or cost allocations involving Tampa Electric, or that are not otherwise subject to discovery under applicable rules.

10. Tampa Electric objects to any RFA requiring the company to provide additional information beyond that obtained through a reasonable and diligent search.

General Response

Subject to and without waiving its general objections, which are incorporated by reference in each of its specific answers, Tampa Electric provides its answers to LULAC & Florida Rising's First RFA. The company's specific answers will identify requests for admissions that call for answers that contain (a) information for which the company asserts a legal privilege and/or (b) "proprietary confidential business information" as defined in Section 366.093, Florida Statutes.

An answer that contains information for which the company asserts a legal privilege will be identified in the privilege log attached as Exhibit A.

Specific Answers

1. Please admit or deny that TECO seeks to recover (approximately) an additional $1.162 billion in this rate case in the years 2025-2027 (as compared to if no rate increase was approved).

Answer: Admitted.

2. Please admit or deny that the information TECO submits to the Energy Information Administration ("EIA") is accurate.

Answer: Admitted.

3. Please admit or deny that, according to the EIA, in 2023, the average TECO residential monthly bill was $191.95 (residential revenue per customer, average of the 12 months in 2023).

Answer: Tampa Electric objects to this request because the term "average residential monthly bill" is not defined and because Tampa Electric does not track any metric known as an "average monthly bill." Tampa Electric also objects to this request for admission because it is not reasonably calculated to lead to the discovery of admissible evidence because it does not present a calculation based on the rates proposed in this case.

Notwithstanding this objection, the company admits that the EIA presents the company's total billed revenue for the residential class for each month in 2023 and the total customer count for the residential class for each month 2023. The company also admits that dividing the total billed revenue for each month by the customer count for that month, then taking an average of all twelve months results in an arithmetic mean of $191.95.

The company denies, however, that this calculation provides a meaningful approximation of an "average residential monthly bill" because the company has multiple rate schedules available to residential customers, meaning that even customers with relatively similar levels of electricity usage may have different bills. The company also denies that this calculation provides a relevant approximation of a current or future "average residential monthly bill" because the calculation uses 2023 data, which does not reflect current *or* proposed rates.

4. Please admit or deny that the average TECO residential monthly bill was $191.95 in 2023.

Answer: Tampa Electric objects to this request because the term "average residential monthly bill" is not defined and because Tampa Electric does not track any metric known as an "average monthly bill." Tampa Electric also objects to this request for admission because it is not reasonably calculated to lead to the discovery of admissible evidence because it does not present a calculation based on the rates proposed in this case.

Notwithstanding this objection, the company admits that the EIA presents the company's total billed revenue for the residential class for each month in 2023 and the total customer count for the residential class for each month 2023. The company also admits that dividing the total billed revenue for each month by the customer count for that month, then taking an average of all twelve months results in an arithmetic mean of $191.95.

The company denies, however, that this calculation provides a meaningful approximation of an "average residential monthly bill" because the company has multiple rate schedules available to residential customers, meaning that even customers with relatively similar levels of electricity usage may have different bills. The company also denies that this calculation provides a relevant approximation of a current or future "average residential monthly bill" because the calculation uses 2023 data, which does not reflect current *or* proposed rates.

5. Please admit or deny that the EIA is a valid source of utility revenue and data.

Answer: Tampa Electric objects to this request on ground that the term "valid" is unclear and ambiguous. Subject to and without waiving this objection, Tampa cannot admit or deny this matter. Although the information Tampa Electric submits to the EIA is accurate, Tampa Electric does not know whether that is true of the other utilities that submit information to the EIA. Tampa Electric notes that the EIA's website contains an extensive explanation of its information quality guidelines, but states "the performance standards applied to information that apply to information generated by EIA cannot be applied to information from external sources" and that "data users are encouraged to consider the initial source of information presented in EIA's information products and to determine the suitability of such information for their purposes." Notwithstanding the foregoing, Tampa Electric admits that the EIA is a frequently cited source of information about the electric utility industry.

6. Please admit or deny that according to the EIA 861M data for 2023, that of the 149 electric utilities with over 100,000 residential customers, TECO had the 3rd highest average monthly residential electric bills in 2023.

Answer: Tampa Electric admits that this reflects the data as presented by the EIA but denies that this provides a meaningful comparison because: (1) it is not based on current *or* proposed rates; (2) it does not compare utilities by electricity *usage;* (3) it does not present how Tampa Electric compares in terms of electricity *rates;* (4) it is not weather normalized; and (5) it does not reflect that customers in areas of the country with significantly more heating degree days may use natural gas for heating, which is billed separately and is not included in this metric.

Dated this 22nd day of May, 2024.

Respectfully submitted,



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ATTORNEYS FOR TAMPA ELECTRIC COMPANY

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that electronic copies of the foregoing response have been served by posting on a shared document site, hand delivery of a USB drive or by electronic mail on this 22nd day of May 2024 to the following:

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ATTORNEY

UTILITY CHARATERISTICS							RESIDENTIAL			
							Revenue	Sales	Customers	Average Monthly Bill
2023	12	4176	Connecticut Light & Power Co	CT	Investor Owned	Preliminary	171,504.495	658,907.802	902,974	$204.27
2023	12	19547	Hawaiian Electric Co Inc	HI	Investor Owned	Preliminary	59,345.787	142,163.588	275,966	$201.30
2023	12	18454	Tampa Electric Co	FL	Investor Owned	Preliminary	115,903.382	669,610.173	748,020	$191.95
2023	12	9216	Imperial Irrigation District	CA	Political Subdivisic	Preliminary	19,013.000	90,132.000	140,906	$189.40
2023	12	6455	Duke Energy Florida, LLC	FL	Investor Owned	Preliminary	263,919.575	1,381,306.078	1,773,314	$186.56
2023	12	11804	Massachusetts Electric Co	MA	Investor Owned	Preliminary	95,998.035	283,682.630	554,670	$177.37
2023	12	195	Alabama Power Co	AL	Investor Owned	Preliminary	241,561.000	1,584,829.000	1,327,562	$173.78
2023	12	6452	Florida Power & Light Co	FL	Investor Owned	Preliminary	676,900.190	4,511,051.000	5,179,817	$170.11
2023	12	733	Appalachian Power Co	WV	Investor Owned	Preliminary	72,095.000	496,453.000	350,306	$169.65
2023	12	40228	Rappahannock Electric Coop	VA	Cooperative	Preliminary	32,189.000	243,616.000	165,828	$169.53
2023	12	5027	Delmarva Power	MD	Investor Owned	Preliminary	37,005.648	188,775.907	170,787	$168.80
2023	12	19497	United Illuminating Co	CT	Investor Owned	Preliminary	45,291.596	145,240.272	258,658	$167.19
2023	12	55937	Entergy Texas Inc.	TX	Investor Owned	Preliminary	57,425.439	430,254.335	450,506	$167.12
2023	12	16609	San Diego Gas & Electric Co	CA	Investor Owned	Preliminary	55,422.187	133,144.194	383,150	$166.61
2023	12	14328	Pacific Gas & Electric Co.	CA	Investor Owned	Preliminary	279,981.000	873,051.000	1,868,939	$165.64
2023	12	3046	Duke Energy Progress - (NC)	SC	Investor Owned	Preliminary	29,025.966	216,663.456	143,242	$165.23
2023	12	15472	Public Service Co of NH	NH	Investor Owned	Preliminary	48,093.717	200,597.954	298,361	$164.73
2023	12	14006	Ohio Power Co	OH	Investor Owned	Preliminary	118,382.000	610,191.000	611,660	$162.57
2023	12	733	Appalachian Power Co	VA	Investor Owned	Preliminary	98,316.000	629,611.000	463,562	$162.43
2023	12	12685	Entergy Mississippi LLC	MS	Investor Owned	Preliminary	53,025.240	383,286.983	383,816	$162.27
2023	12	5860	Empire District Electric Co	MO	Investor Owned	Preliminary	23,681.835	160,605.578	139,947	$162.01
2023	12	11171	Long Island Power Authority	NY	State	Preliminary	145,391.643	703,531.838	1,028,815	$160.74
2023	12	12686	Mississippi Power Co	MS	Investor Owned	Preliminary	22,512.925	165,930.509	156,882	$160.67
2023	12	3249	Central Hudson Gas & Elec Corp	NY	Investor Owned	Preliminary	33,910.000	160,089.000	219,551	$159.78
2023	12	19876	Virginia Electric & Power Co	NC	Investor Owned	Preliminary	20,442.576	150,107.640	108,262	$159.19
2023	12	14715	PPL Electric Utilities Corp	PA	Investor Owned	Preliminary	138,385.326	798,650.267	787,988	$158.87
2023	12	22053	Kentucky Power Co	KY	Investor Owned	Preliminary	21,053.102	193,741.852	130,995	$158.31
2023	12	3265	Cleco Power LLC	LA	Investor Owned	Preliminary	31,350.000	287,265.000	251,458	$155.64
2023	12	1613	Berkeley Electric Coop Inc	SC	Cooperative	Preliminary	16,825.000	121,082.000	110,849	$155.48
2023	12	803	Arizona Public Service Co	AZ	Investor Owned	Preliminary	147,150.340	955,819.212	1,242,360	$155.41
2023	12	3266	Central Maine Power Co	ME	Investor Owned	Preliminary	80,113.730	285,984.210	511,550	$155.28
2023	12	1179	Versant Power	ME	Investor Owned	Preliminary	22,402.940	73,513.493	129,738	$154.79
2023	12	17637	Southern Maryland Elec Coop Inc	MD	Cooperative	Preliminary	23,878.296	205,134.684	156,946	$154.28
2023	12	13407	Nevada Power Co	NV	Investor Owned	Preliminary	89,269.881	564,630.756	905,298	$153.35
2023	12	12390	Metropolitan Edison Co	PA	Investor Owned	Preliminary	73,529.175	404,001.838	415,324	$153.25
2023	12	13214	The Narragansett Electric Co	RI	Investor Owned	Preliminary	54,641.872	176,351.479	310,132	$151.79
2023	12	5070	Delaware Electric Cooperative	DE	Cooperative	Preliminary	15,360.000	106,301.000	103,287	$151.72
2023	12	14716	Pennsylvania Power Co	PA	Investor Owned	Preliminary	21,267.368	120,502.859	123,849	$150.66
2023	12	16572	Salt River Project	AZ	Political Subdivisic	Preliminary	103,035.000	865,708.000	1,044,438	$148.69
2023	12	14154	Orange & Rockland Utils Inc	NY	Investor Owned	Preliminary	25,884.105	104,059.929	162,420	$147.88
2023	12	17633	Southern Indiana Gas & Elec Co	IN	Investor Owned	Preliminary	16,550.347	99,802.696	133,060	$146.89
2023	12	12745	Modesto Irrigation District	CA	Political Subdivisic	Preliminary	12,903.303	71,203.081	102,862	$146.65
2023	12	15270	Potomac Electric Power Co	MD	Investor Owned	Preliminary	74,307.900	405,844.258	479,584	$146.46
2023	12	17539	Dominion Energy South Carolina, Inc	SC	Investor Owned	Preliminary	93,175.000	673,948.000	680,200	$141.75
2023	12	54913	NSTAR Electric Company	MA	Investor Owned	Preliminary	58,816.000	212,202.000	441,362	$141.58
2023	12	15474	Public Service Co of Oklahoma	OK	Investor Owned	Preliminary	57,181.870	472,786.981	496,215	$141.56
2023	12	7140	Georgia Power Co	GA	Investor Owned	Preliminary	338,244.940	2,549,518.147	2,405,579	$140.95
2023	12	17718	Southwestern Public Service Co	TX	Investor Owned	Preliminary	27,477.624	225,257.837	221,164	$140.45

2023	12	3046	Duke Energy Progress - (NC)	NC	Investor Owned	Preliminary	238,234.289	1,674,734.884	1,337,277	$139.87
2023	12	4922	Dayton Power & Light Co	OH	Investor Owned	Preliminary	21,340.877	145,067.000	140,413	$139.85
2023	12	56697	Ameren Illinois Company	IL	Investor Owned	Preliminary	74,864.551	466,036.096	541,275	$138.46
2023	12	11241	Entergy Louisiana LLC	LA	Investor Owned	Preliminary	101,467.550	909,065.097	953,932	$137.84
2023	12	13478	Entergy New Orleans, LLC	LA	Investor Owned	Preliminary	18,911.765	146,023.163	187,464	$137.56
2023	12	88888	US Total	US		Preliminary	18,726,006.832	119,052,479.286	141,496,756	$137.54
2023	12	814	Entergy Arkansas LLC	AR	Investor Owned	Preliminary	75,815.904	613,324.539	605,836	$137.22
2023	12	12470	Middle Tennessee E M C	TN	Cooperative	Preliminary	42,430.000	365,010.000	298,753	$137.13
2023	12	1167	Baltimore Gas & Electric Co	MD	Investor Owned	Preliminary	175,469.240	953,019.478	1,014,307	$137.06
2023	12	9601	Jackson Electric Member Corp - (GA)	GA	Cooperative	Preliminary	31,432.000	303,319.000	235,414	$136.35
2023	12	9617	JEA	FL	Municipal	Preliminary	53,838.000	415,903.000	462,922	$136.31
2023	12	963	Atlantic City Electric Co	NJ	Investor Owned	Preliminary	62,700.262	288,540.834	469,943	$134.28
2023	12	19876	Virginia Electric & Power Co	VA	Investor Owned	Preliminary	350,268.339	2,661,568.087	2,367,849	$133.77
2023	12	5027	Delmarva Power	DE	Investor Owned	Preliminary	40,931.955	244,094.250	273,220	$133.16
2023	12	3542	Duke Energy Ohio Inc	OH	Investor Owned	Preliminary	47,725.597	303,502.436	305,720	$133.16
2023	12	19898	Volunteer Electric Coop	TN	Cooperative	Preliminary	15,508.000	134,623.000	103,320	$133.13
2023	12	16604	City of San Antonio - (TX)	TX	Municipal	Preliminary	68,712.220	626,775.118	853,398	$133.08
2023	12	14711	Pennsylvania Electric Co	PA	Investor Owned	Preliminary	70,354.253	356,692.941	414,946	$132.93
2023	12	15263	The Potomac Edison Company	WV	Investor Owned	Preliminary	24,720.724	215,376.192	133,769	$132.84
2023	12	13216	Nashville Electric Service	TN	Municipal	Preliminary	52,334.000	394,645.000	405,896	$132.51
2023	12	20387	West Penn Power Company	PA	Investor Owned	Preliminary	83,877.550	548,962.477	524,872	$132.37
2023	12	12293	City of Memphis - (TN)	TN	Municipal	Preliminary	42,048.703	360,342.000	377,554	$131.70
2023	12	9094	City of Huntsville - (AL)	AL	Municipal	Preliminary	22,311.000	198,990.000	175,492	$131.58
2023	12	15470	Duke Energy Indiana, LLC	IN	Investor Owned	Preliminary	112,268.549	807,880.968	788,920	$131.36
2023	12	9324	Indiana Michigan Power Co	IN	Investor Owned	Preliminary	54,762.552	352,743.007	420,796	$130.26
2023	12	9417	Interstate Power and Light Co	IA	Investor Owned	Preliminary	49,417.892	309,655.252	414,637	$129.28
2023	12	9324	Indiana Michigan Power Co	MI	Investor Owned	Preliminary	13,920.964	95,853.658	112,380	$129.23
2023	12	10421	Knoxville Utilities Board	TN	Municipal	Preliminary	26,332.000	217,232.000	190,846	$129.05
2023	12	5416	Duke Energy Carolinas, LLC	SC	Investor Owned	Preliminary	95,457.027	735,133.690	560,921	$128.09
2023	12	3408	City of Chattanooga - (TN)	TN	Municipal	Preliminary	19,317.000	157,572.000	160,446	$127.73
2023	12	14354	PacifiCorp	WA	Investor Owned	Preliminary	18,727.751	173,246.932	114,013	$127.25
2023	12	10000	Evergy Metro	KS	Investor Owned	Preliminary	23,768.659	214,833.298	243,183	$126.37
2023	12	5487	Duquesne Light Co	PA	Investor Owned	Preliminary	54,259.650	255,009.880	432,904	$125.37
2023	12	12698	Evergy Missouri West	MO	Investor Owned	Preliminary	32,643.599	293,147.459	304,030	$124.92
2023	12	3916	Cobb Electric Membership Corp	GA	Cooperative	Preliminary	22,723.713	199,638.412	198,874	$124.71
2023	12	15263	The Potomac Edison Company	MD	Investor Owned	Preliminary	41,711.192	293,059.130	237,554	$124.32
2023	12	10171	Kentucky Utilities Co	KY	Investor Owned	Preliminary	64,947.884	561,065.978	449,052	$123.98
2023	12	15248	Portland General Electric Co	OR	Investor Owned	Preliminary	118,019.363	778,459.314	820,631	$123.42
2023	12	9336	CORE Electric Cooperative	CO	Cooperative	Preliminary	21,066.000	147,811.000	163,278	$122.57
2023	12	24211	Tucson Electric Power Co	AZ	Investor Owned	Preliminary	42,182.158	248,973.474	407,394	$122.31
2023	12	13998	Ohio Edison Co	OH	Investor Owned	Preliminary	33,593.415	213,784.329	259,762	$121.57
2023	12	19436	Union Electric Co - (MO)	MO	Investor Owned	Preliminary	116,031.250	1,156,194.489	1,066,688	$121.34
2023	12	7601	Green Mountain Power Corp	VT	Investor Owned	Preliminary	33,543.000	158,115.000	225,952	$120.74
2023	12	9273	Indianapolis Power & Light Co	IN	Investor Owned	Preliminary	54,911.100	425,933.000	462,848	$119.74
2023	12	20847	Wisconsin Electric Power Co	WI	Investor Owned	Preliminary	126,244.784	669,278.087	1,044,937	$118.50
2023	12	15500	Puget Sound Energy Inc	WA	Investor Owned	Preliminary	162,044.048	1,206,885.457	1,083,522	$117.12
2023	12	14940	PECO Energy Co	PA	Investor Owned	Preliminary	137,639.952	913,340.763	1,206,638	$116.34
2023	12	4254	Consumers Energy Co - (MI)	MI	Investor Owned	Preliminary	196,259.982	1,066,096.402	1,651,181	$115.90
2023	12	13780	Northern States Power Co	WI	Investor Owned	Preliminary	26,024.320	169,640.901	219,113	$115.75
2023	12	5109	DTE Electric Company	MI	Investor Owned	Preliminary	244,751.036	1,216,036.458	2,061,665	$115.41

2023	12	10005	Evergy Kansas South, Inc	KS	Investor Owned	Preliminary	29,019.228	227,343.743	301,496	$114.69
2023	12	13756	Northern Indiana Pub Serv Co	IN	Investor Owned	Preliminary	49,059.283	261,029.181	427,217	$114.30
2023	12	4226	Consolidated Edison Co-NY Inc	NY	Investor Owned	Preliminary	312,100.000	937,871.000	2,690,647	$114.18
2023	12	14063	Oklahoma Gas & Electric Co	OK	Investor Owned	Preliminary	65,358.525	719,383.655	704,612	$114.12
2023	12	5416	Duke Energy Carolinas, LLC	NC	Investor Owned	Preliminary	260,536.645	2,119,431.788	1,893,953	$112.84
2023	12	16534	Sacramento Municipal Util Dist	CA	Political Subdivisio	Preliminary	56,601.702	398,415.169	588,308	$112.83
2023	12	20856	Wisconsin Power & Light Co	WI	Investor Owned	Preliminary	49,897.166	304,165.785	433,061	$112.03
2023	12	14354	PacifiCorp	OR	Investor Owned	Preliminary	71,321.933	588,790.319	544,147	$111.09
2023	12	13511	New York State Elec & Gas Corp	NY	Investor Owned	Preliminary	100,412.336	607,658.300	730,728	$110.77
2023	12	11208	Los Angeles Department of Water & Power	CA	Municipal	Preliminary	144,865.817	617,623.841	1,404,314	$110.72
2023	12	22500	Evergy Kansas Central, Inc	KS	Investor Owned	Preliminary	33,328.707	261,909.239	341,128	$110.43
2023	12	10000	Evergy Metro	MO	Investor Owned	Preliminary	24,729.053	204,449.025	272,897	$110.02
2023	12	14127	Omaha Public Power District	NE	Political Subdivisio	Preliminary	35,085.000	320,092.000	359,834	$109.66
2023	12	17166	Sierra Pacific Power Co	NV	Investor Owned	Preliminary	37,201.385	244,461.076	328,103	$109.45
2023	12	689	Connexus Energy	MN	Cooperative	Preliminary	13,729.680	106,073.739	133,140	$109.23
2023	12	9191	Idaho Power Co	ID	Investor Owned	Preliminary	72,947.271	580,903.905	517,807	$108.45
2023	12	12796	Monongahela Power Co	WV	Investor Owned	Preliminary	44,502.187	356,807.198	335,017	$108.29
2023	12	16183	Rochester Gas & Electric Corp	NY	Investor Owned	Preliminary	34,897.000	202,005.000	290,313	$108.23
2023	12	13573	Niagara Mohawk Power Corp.	NY	Investor Owned	Preliminary	158,100.245	944,599.210	1,422,009	$107.39
2023	12	17543	South Carolina Public Service Authority	SC	State	Preliminary	17,494.937	166,756.790	182,208	$106.66
2023	12	11249	Louisville Gas & Electric Co	KY	Investor Owned	Preliminary	39,874.686	318,360.535	383,602	$106.24
2023	12	9726	Jersey Central Power & Lt Co	NJ	Investor Owned	Preliminary	98,198.806	727,299.773	967,516	$105.45
2023	12	19446	Duke Energy Kentucky	KY	Investor Owned	Preliminary	18,565.305	130,405.926	138,101	$104.29
2023	12	12825	NorthWestern Energy LLC - (MT)	MT	Investor Owned	Preliminary	43,096.410	287,975.377	325,066	$102.93
2023	12	17470	PUD No 1 of Snohomish County	WA	Political Subdivisio	Preliminary	45,610.000	420,381.000	344,120	$101.85
2023	12	13781	Northern States Power Co - Minnesota	MN	Investor Owned	Preliminary	117,007.900	749,329.128	1,221,183	$101.47
2023	12	15477	Public Service Elec & Gas Co	NJ	Investor Owned	Preliminary	185,817.447	1,020,279.892	1,959,635	$101.06
2023	12	20860	Wisconsin Public Service Corp	WI	Investor Owned	Preliminary	42,712.100	261,740.287	409,646	$100.08
2023	12	25177	Dakota Electric Association	MN	Cooperative	Preliminary	9,989.000	77,043.000	107,477	$100.03
2023	12	3755	Cleveland Electric Illum Co	OH	Investor Owned	Preliminary	13,073.642	82,935.688	131,996	$99.71
2023	12	20169	Avista Corp	WA	Investor Owned	Preliminary	31,938.969	283,329.165	243,524	$99.18
2023	12	11479	Madison Gas & Electric Co	WI	Investor Owned	Preliminary	14,679.000	73,937.000	144,597	$99.15
2023	12	18429	City of Tacoma - (WA)	WA	Municipal	Preliminary	19,862.745	198,927.518	172,189	$97.85
2023	12	3660	PUD No 1 of Clark County - (WA)	WA	Political Subdivisio	Preliminary	25,503.000	281,537.000	215,343	$96.55
2023	12	5701	El Paso Electric Co	TX	Investor Owned	Preliminary	19,727.000	144,641.000	311,326	$96.24
2023	12	12647	ALLETE, Inc.	MN	Investor Owned	Preliminary	12,872.436	95,435.954	125,346	$93.54
2023	12	17833	City Utilities of Springfield - (MO)	MO	Municipal	Preliminary	8,451.876	86,763.251	104,507	$93.40
2023	12	20169	Avista Corp	ID	Investor Owned	Preliminary	16,844.233	149,225.258	126,548	$91.89
2023	12	12341	MidAmerican Energy Co	IA	Investor Owned	Preliminary	51,710.451	552,174.367	628,525	$89.05
2023	12	15270	Potomac Electric Power Co	DC	Investor Owned	Preliminary	26,453.527	156,761.776	281,792	$88.59
2023	12	15473	Public Service Co of NM	NM	Investor Owned	Preliminary	41,318.000	293,918.000	490,439	$87.95
2023	12	11018	Lincoln Electric System	NE	Municipal	Preliminary	11,627.296	121,398.000	133,839	$86.75
2023	12	4110	Commonwealth Edison Co	IL	Investor Owned	Preliminary	223,082.330	1,645,277.264	2,958,052	$84.39
2023	12	14354	PacifiCorp	UT	Investor Owned	Preliminary	78,206.542	730,886.595	934,426	$84.11
2023	12	15466	Public Service Co of Colorado	CO	Investor Owned	Preliminary	121,493.742	874,709.903	1,353,213	$83.93
2023	12	3989	City of Colorado Springs - (CO)	CO	Municipal	Preliminary	19,589.742	146,023.710	211,787	$83.87
2023	12	14354	PacifiCorp	WY	Investor Owned	Preliminary	11,888.916	106,552.284	117,975	$83.39
2023	12	16868	City of Seattle - (WA)	WA	Municipal	Preliminary	40,453.006	318,531.249	454,320	$79.32

Utility Characteristics								RESIDENTIAL				
								Revenues	Sales	Customers	Customer Bills	Customer Rates
Data Year	Utility Number	Utility Name	Part	Service Type	Data Type O = Observed I = Imputed	State	Ownership	Thousand Dollars	Megawatthours	Count		
2022	1300	City of Bartow - (FL)	A	Bundled	O	FL	Municipal	20,810.1	151,095	10,918	$158.84	
2022	3245	Central Florida Elec Coop, Inc	A	Bundled	O	FL	Cooperative	57,488.0	393,696	31,784	$150.73	
2022	3502	Choctawhatche Elec Coop, Inc	A	Bundled	O	FL	Cooperative	96,115.9	761,103	52,816	$151.65	
2022	3757	Clay Electric Cooperative, Inc	A	Bundled	O	FL	Cooperative	331,749.1	2,366,748	165,066	$167.48	
2022	6443	Florida Keys El Coop Assn, Inc	A	Bundled	O	FL	Cooperative	65,700.0	458,435	28,179	$194.29	
2022	6452	Florida Power & Light Co	A	Bundled	O	FL	Investor Owned	9,349,311.5	69,473,785	5,079,787	$153.37	
2022	6455	Duke Energy Florida, LLC	A	Bundled	O	FL	Investor Owned	3,335,666.2	21,507,943	1,730,814	$160.60	
2022	6457	Florida Public Utilities Co	A	Bundled	O	FL	Investor Owned	44,727.0	305,593	25,516	$146.08	
2022	6616	Fort Pierce Utilities Authority	A	Bundled	O	FL	Municipal	39,171.0	253,034	23,862	$136.80	
2022	6909	Gainesville Regional Utilities	A	Bundled	O	FL	Municipal	148,603.9	839,871	89,751	$137.98	
2022	7264	Glades Electric Coop, Inc	A	Bundled	O	FL	Cooperative	30,724.0	175,967	13,636	$187.76	
2022	7785	Gulf Coast Electric Coop, Inc	A	Bundled	O	FL	Cooperative	39,979.0	284,511	20,280	$164.28	
2022	8795	City of Homestead - (FL)	A	Bundled	O	FL	Municipal	46,411.5	385,270	28,797	$134.31	
2022	9616	Beaches Energy Services	A	Bundled	O	FL	Municipal	53,954.1	440,699	30,525	$147.29	
2022	9617	JEA	A	Bundled	O	FL	Municipal	810,916.0	5,723,164	447,308	$151.07	
2022	10226	Utility Board of the City of Key West, F	A	Bundled	O	FL	Municipal	69,977.0	388,297	26,831	$217.34	
2022	10376	Kissimmee Utility Authority	A	Bundled	O	FL	Municipal	141,220.4	1,016,798	74,568	$157.82	
2022	10620	City of Lake Worth Beach - (FL)	A	Bundled	O	FL	Municipal	38,966.0	282,450	24,432	$132.91	
2022	10623	City of Lakeland - (FL)	A	Bundled	O	FL	Municipal	205,750.6	1,689,706	116,907	$146.66	
2022	10857	Lee County Electric Coop, Inc	A	Bundled	O	FL	Cooperative	424,855.2	3,162,353	215,106	$164.59	
2022	10868	City of Leesburg - (FL)	A	Bundled	O	FL	Municipal	41,272.4	278,088	23,558	$146.00	
2022	13485	New Smyrna Beach City of	A	Bundled	O	FL	Municipal	33,835.0	312,973	27,014	$104.37	
2022	13955	City of Ocala	A	Bundled	O	FL	Municipal	58,541.9	550,520	44,316	$110.08	
2022	14606	Peace River Electric Coop, Inc	A	Bundled	O	FL	Cooperative	94,869.8	673,803	47,390	$166.82	
2022	14610	Orlando Utilities Comm	A	Bundled	O	FL	Municipal	392,464.8	2,790,761	236,057	$138.55	
2022	15776	Reedy Creek Improvement Dist	A	Bundled	O	FL	Municipal	12.0	111	9	$111.11	
2022	18304	Sumter Electric Coop, Inc	A	Bundled	O	FL	Cooperative	378,745.0	2,581,354	210,291	$150.09	
2022	18360	Suwannee Valley Elec Coop Inc	A	Bundled	O	FL	Cooperative	47,805.0	325,922	25,154	$158.37	
2022	18445	City of Tallahassee - (FL)	A	Bundled	O	FL	Municipal	141,823.0	1,148,688	106,720	$110.74	
2022	18449	Talquin Electric Coop, Inc	A	Bundled	O	FL	Cooperative	98,423.0	697,590	52,931	$154.95	
2022	18454	Tampa Electric Co	A	Bundled	O	FL	Investor Owned	1,380,689.9	10,109,074	729,334	$157.76	
2022	19161	Tri-County Electric Coop, Inc (FL)	A	Bundled	O	FL	Cooperative	28,774.4	183,448	18,012	$133.13	
2022	20371	West Florida El Coop Assn, Inc	A	Bundled	O	FL	Cooperative	49,452.0	321,035	25,718	$160.24	

2022	20885	Withlacoochee River Elec Coop	A	Bundled	O	FL	Cooperative	410,353.6	3,093,524	213,311	$160.31	
2022	31833	Okefenoke Rural El Member Corp	A	Bundled	O	FL	Cooperative	22,037.3	164,475	10,695	$171.71	
2022	57313	Tesla Inc.	A	Bundled	O	FL	Behind the Meter	4.0	51	10	$33.33	
2022	57313	Tesla Inc.	A	Bundled	O	FL	Behind the Meter	293.0	3,555	436	$56.00	
2022	57313	Tesla Inc.	A	Bundled	O	FL	Behind the Meter	0.0	0	0	#DIV/0!	
2022	57313	Tesla Inc.	A	Bundled	O	FL	Behind the Meter	61.0	746	245	$20.75	
2022	57313	Tesla Inc.	A	Bundled	O	FL	Behind the Meter	1.0	16	12	$6.94	
2022	58124	City of Winter Park - (FL)	A	Bundled	O	FL	Municipal	27,428.8	191,118	12,304	$185.77	
2022	59579	Sunnova	A	Bundled	O	FL	Behind the Meter	1,304.3	16,020	1,569	$69.27	
2022	59579	Sunnova	A	Bundled	O	FL	Behind the Meter	2,565.8	31,514	2,272	$94.11	
2022	59579	Sunnova	A	Bundled	O	FL	Behind the Meter	15.0	184	12	$104.17	
2022	59579	Sunnova	A	Bundled	O	FL	Behind the Meter	2.1	26	2	$87.50	
2022	59579	Sunnova	A	Bundled	O	FL	Behind the Meter	346.6	4,257	399	$72.39	
2022	59579	Sunnova	A	Bundled	O	FL	Behind the Meter	182.2	2,238	328	$46.29	
2022	59647	Sunrun Inc.	A	Bundled	O	FL	Behind the Meter	1,018.4	7,784	646	$131.37	
2022	59647	Sunrun Inc.	A	Bundled	O	FL	Behind the Meter	13,097.2	80,144	6,189	$176.35	
2022	59647	Sunrun Inc.	A	Bundled	O	FL	Behind the Meter	1,978.5	13,750	931	$177.09	
2022	60025	Greenbacker Renewable Energy Corporation	A	Bundled	O	FL	Behind the Meter	0.0	0	0	#DIV/0!	
2022	60981	TerraForm US Energy Services, LLC	A	Bundled	O	FL	Behind the Meter	0.0	0	0	#DIV/0!	
2022	61098	Longroad Energy	A	Bundled	O	FL	Behind the Meter	.	.	.	#VALUE!	
2022	61823	Greenskies Renewable Energy, LLC	A	Bundled	O	FL	Behind the Meter	0.0	0	0	#DIV/0!	
2022	99999	Adjustment 2022	A	Bundled	I	FL		4,722.5	32,167	846	$465.18	
2022	99999	Adjustment 2022	A	Bundled	I	FL		47,834.9	342,216	19,070	$209.03	
2022	99999	Adjustment 2022	A	Bundled	I	FL		0.0	0	0	#DIV/0!	
2022	99999	Adjustment 2022	A	Bundled	I	FL		0.0	0	-12	$0.00	
2022	99999	Adjustment 2022	A	Bundled	I	FL		0.0	0	-2	$0.00	
2022	99999	Adjustment 2022	A	Bundled	I	FL		0.0	0	0	#DIV/0!	
2022	99999	Adjustment 2022	A	Bundled	I	FL		25,369.7	176,873	12,208	$173.18	
2022	99999	Adjustment 2022	A	Bundled	I	FL		0.0	0	-1,330	$0.00	
2022	99999	Adjustment 2022	A	Bundled	I	FL		0.0	0	-573	$0.00	
2022	99999	Adjustment 2022	A	Bundled	I	FL		6,942.9	51,432	3,798	$152.34	

SOUTHERN ALLIANCE FOR CLEAN ENERGY

ENERGY EFFICIENCY IN THE SOUTHEAST

FIFTH ANNUAL REPORT









cleanenergy.org Southern Alliance for Clean Energy

MARCH 2023

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ABOUT SOUTHERN ALLIANCE FOR CLEAN ENERGY

The Southern Alliance for Clean Energy is a nonprofit organization that promotes responsible and equitable energy choices to ensure clean, safe and healthy communities throughout the Southeast. As a leading voice for energy policy in our region, SACE is focused on transforming the way we produce and consume energy in the Southeast.

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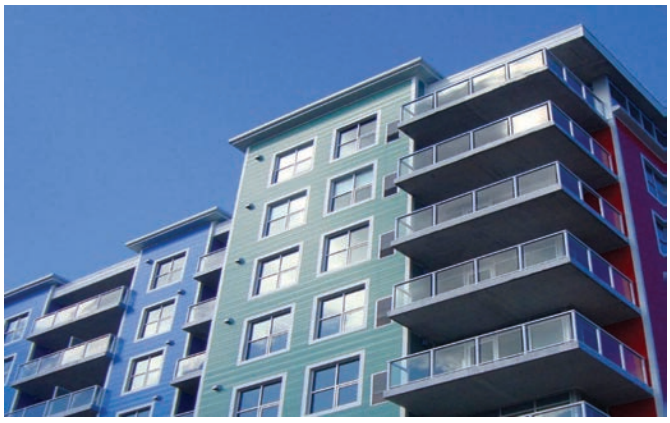
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INTRODUCTION

Energy efficiency is a proven low-cost clean energy resource, but Southeastern utilities and regulators continue to underinvest and deprioritize it. As a result, households in many Southeastern states have some of the highest electricity usage and monthly energy bills in the nation. The fifth annual "Energy Efficiency in the Southeast" report examines the connection between energy efficiency and utility integrated resource planning, and the impacts that new federal investments will have on energy efficiency deployment in the region.

The COVID-19 pandemic had a particularly large impact on efficiency in the Southeast, resulting in savings declines that pushed the region further below the national average in 2020. In 2021, a few Southeastern utilities saw partial rebounds in their annual efficiency savings from the previous year, while others continued to slide.

This year's "Energy Efficiency in the Southeast" report documents recent policy developments and trends in electric utility efficiency data from 2021. **Utility energy efficiency programs are scored primarily on the basis of energy saved in 2021 as a percentage of the utility's total electricity sales.** Projected utility spending data in this report is used specifically for comparison to projected new federal spending on efficiency. All other comparisons of utility energy efficiency program performance are based on the primary metric of percentage annual electric savings described above. Additional policy context is then added along with comparisons to state, regional, and national averages that highlight recent trends. The appendices include data for each of the utilities that fall within the scope of this report.





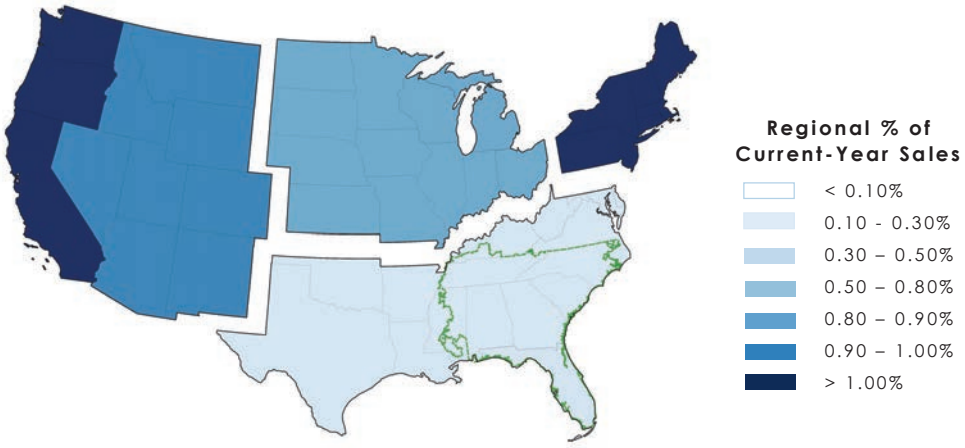






EFFICIENCY PERFORMANCE OF THE SOUTHEAST, STATES, AND UTILITIES

ENERGY PERFORMANCE OF U.S. REGIONS



**Area outlined in green are the utilities in the "Southeast" region covered in this report.*

REGION-TO-REGION COMPARISON

The Southeast has consistently lagged far behind other regions and the nation as a whole on utility energy efficiency performance. Since the start of the COVID-19 pandemic in early 2020, the region's downward slide has continued, in both absolute and relative terms. In 2021, total efficiency savings in the Southeast were approximately 25% lower than before the pandemic. Unfortunately, current policies and practices (or lack thereof) in the Southeast continue to be a barrier to attaining higher efficiency savings for customers, even as skyrocketing fossil gas prices drive up electricity bills.

ENERGY PERFORMANCE OF U.S. REGIONS

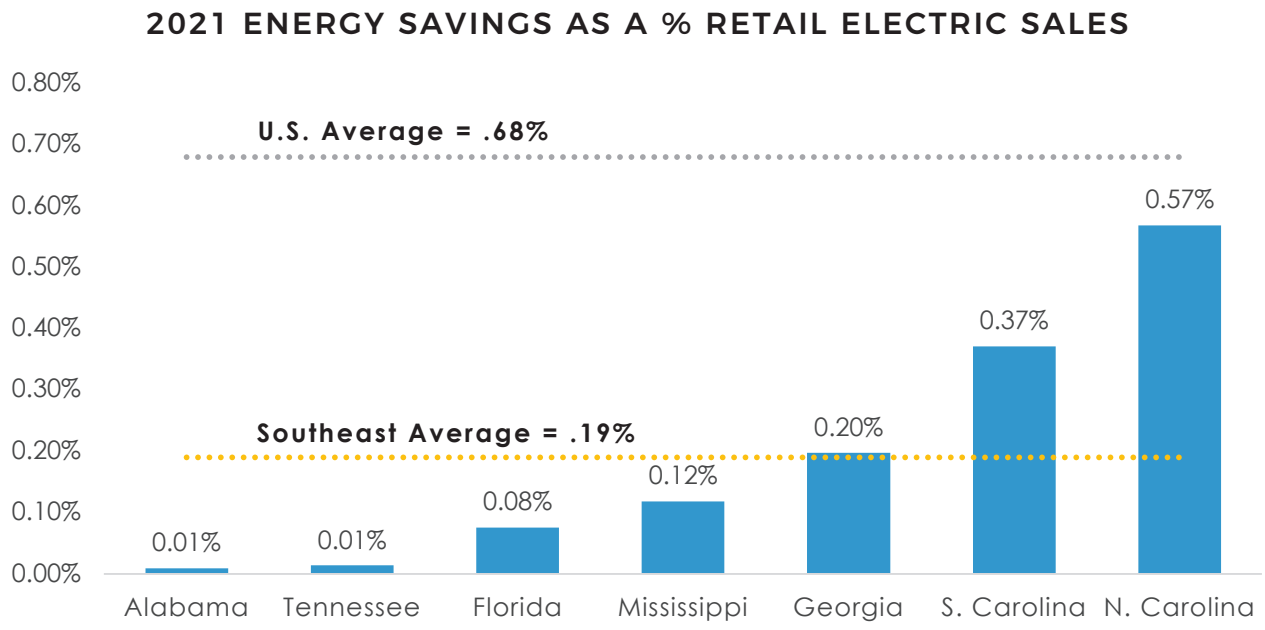
REGION	PERCENTAGE
Pacific West	1.64%
Northeast	1.13%
Mountain West	0.85%
Midwest	0.78%
U.S. Average	0.68%
South	0.27%
Southeast	**0.19%**

Throughout the rest of the U.S., states have found ways to maintain high levels of savings even as customer adoption and program penetration increased over time. Not only are the South and Southeast[1] performance outliers relative to all other regions, they have also consistently been the only ones that are below the national average – and as a result the only ones who are dragging the national average downwards. If the South is removed from the calculation, efficiency performance for all other regions would jump from 0.68% up to 1.04%, more than five times higher than savings in the Southeast region covered in this report.

But we can turn this long-standing deficiency into an opportunity. While other regions show how much higher efficiency saving performance can be, finding the next batch of efficiency savings can be more expensive and more challenging for them. By contrast, historic underinvestment on efficiency in the South and Southeast means that we still have abundant, low-cost efficiency resources available. Because of this, the South and Southeast are effectively the strategic efficiency reserve for our nation! Capturing this efficiency potential now will produce much needed economic benefits for the Southeast, and could accelerate our transition to clean energy.

STATE RANKINGS IN THE SOUTHEAST

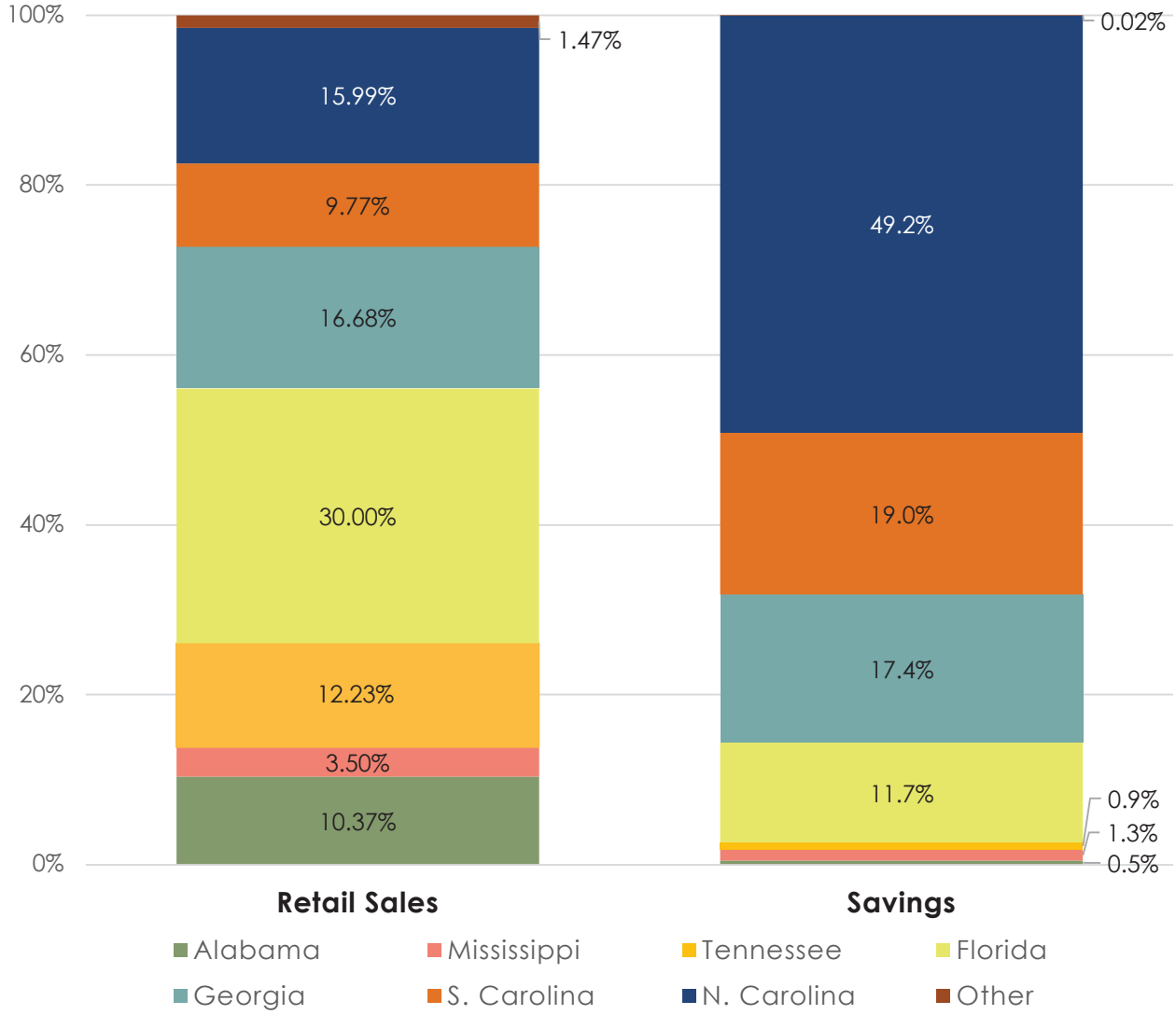
To provide an equitable, unbiased comparison of efficiency performance for states of various sizes in the Southeast, SACE uses a standard metric that compares the percentage of annual efficiency savings to total retail electricity consumption.



In 2021, efficiency performance in most Southeastern states continued to be lower than their pre-pandemic levels. While South Carolina and Georgia saw modest efficiency savings increases over their performance in 2020, Tennessee had yet another steep decline, with savings levels that are now 95% lower than they were just five years ago. While North and South Carolina continued to pull the regional average up, all Southeastern states were below the national average in 2021.

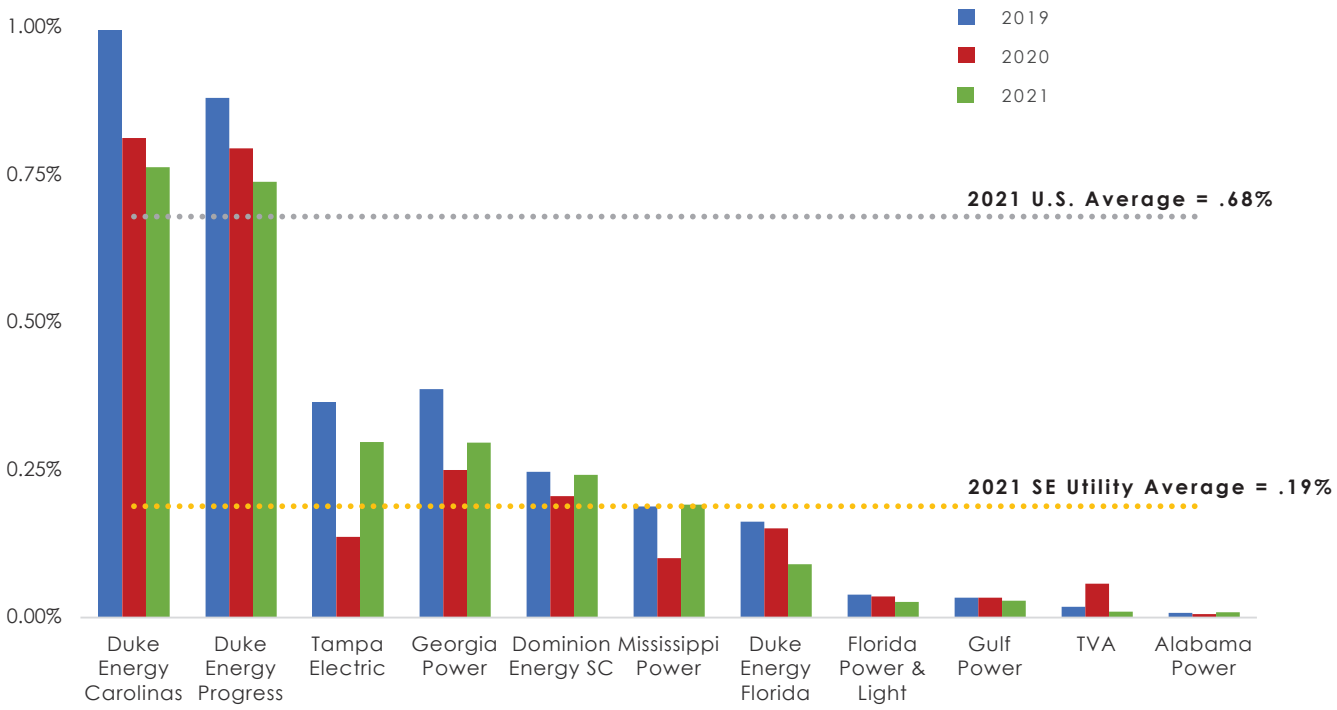
[1] The Southeast falls within a portion of the South region. Please see appendix A for map.

SOUTHEAST STATES SHARE OF REGIONAL 2021 SALES AND SAVINGS



Only two states in the Southeast, North and South Carolina, deliver substantially more efficiency savings relative to their share of total retail electric sales (26% of regional electric sales vs. 68% of efficiency savings). Georgia's share of efficiency savings is slightly more than its share of electric sales. Efficiency savings in Florida, Tennessee, Mississippi, and Alabama are far below their proportionate share, indicating that their customers are being deprived of valuable efficiency resources.

EFFICIENCY PERFORMANCE OF MAJOR SOUTHEASTERN UTILITIES



MAJOR UTILITIES IN THE SOUTHEAST

Tampa Electric, Georgia Power, Mississippi Power, and Dominion South Carolina saw partial rebounds from deep savings declines in 2020, though Tampa Electric and Georgia Power still trailed their pre-pandemic performance.

Duke's savings continued to decline across the board, though its performance in the Carolinas continues to lead in the Southeast.

TVA's savings fell to the bottom with Alabama Power, completing a 95% slide in efficiency savings since 2017. Annual savings in 2021 remained very low at both Florida Power & Light and Gulf Power, which then merged in 2022.

EFFICIENCY REDUCES FOSSIL FUEL EMISSIONS

Energy efficiency is a crucial tool for attaining carbon reduction goals. Even at savings levels that are far below potential, efficiency is still helping the Southeast to retire its aging fleet of fossil fuel power plants, reduce the need for more expensive fossil gas generation, and make the transition to renewable energy more affordable. In 2021, efficiency eliminated an estimated 1,534 gigawatt hours (GWh) of energy waste across the Southeast, enough to power 136,942 homes and avoid approximately one million tons of carbon emissions last year.

NEW FEDERAL FUNDING FOR ENERGY EFFICIENCY

With the passage of the Bipartisan Infrastructure Law (BIL) and Inflation Reduction Act (IRA) in 2022, the federal government is making an unprecedented investment in clean energy, which could include as much as $62 billion for energy efficiency. Individual residents and businesses can take advantage of generous rebates and federal tax credits, and local governments can compete for grants and loans worth billions of dollars. The Southeast will receive nearly $1.8 billion in non-competitive formula allocations to expand existing Weatherization Assistance Programs (WAP), as well as new energy efficiency and electrification rebates that will be administered by individual states through the Home Energy Performance-Based Whole House Rebates (HOMES) and High-Efficiency Electric Home Rebate Program for Low- and Moderate-Income Households (HEERA) programs.

UTILITY ENERGY EFFICIENCY INVESTMENTS OVER TEN-YEARS AND NEW ENERGY EFFICIENCY FEDERAL FUNDING DOLLARS AVAILABLE

FUNDING SOURCE	UTILITY INVESTMENT	FEDERAL: BIL	FEDERAL: IRA REBATES	TOTAL FEDERAL $
Alabama	$59,829	$47,489	$145,639	$193,128
Florida	$800,548	$93,648	$346,326	$439,973
Georgia	$382,361	$84,313	$218,995	$303,308
Mississippi	$163,126	$28,078	$104,780	$132,858
North Carolina	$1,190,278	$89,776	$209,225	$299,001
South Carolina	$608,000	$42,582	$137,303	$179,885
Tennessee	$203,070	$66,347	$167,267	$233,614
Southeast	**$3,407,213**	**$452,233**	**$1,329,534**	**$1,781,767**

Numbers in $ Thousands. Ex. $1,781,767 = $1,718,767,000
BIL = Bipartisan Infrastructure Law; IRA = Inflation Reduction Act

While not a formula allocation like those on the table above, if citizens and businesses access the new energy efficiency tax credits on a roughly proportionate basis, that would bring an additional $1.9 billion for energy efficiency in the Southeast. Taken together, these formula allocated funds and consumer tax credits could roughly equal utility spending on energy efficiency over the next ten years, based on a continuation of 2021 utility efficiency budget levels.

THE SOUTHEAST: OUR NATION'S STRATEGIC EFFICIENCY RESERVES

The Southeast has consistently lagged behind the rest of the nation on energy efficiency, but a massive infusion of federal funding creates an opportunity for our region to take a big step forward. Only a portion of the federal funding will be automatically allocated to individual states, while large portions of the new funds will flow through competitive grants and consumer tax credits. **Our region has a tremendous opportunity to untap our efficiency potential.** But to ensure maximum financial benefit flows to our region, Southeastern states, utilities, and customers will need to aggressively pursue these funds.

IT IS BOTH, NOT EITHER OR

Some utilities in the Southeast, like FPL and TVA, have incorrectly argued in the past that building codes and federal standards make utility energy efficiency programs unnecessary. Yet utilities and states with similar or higher codes and standards in other parts of the country have still managed to deliver savings that are many times higher than the Southeast. With the new federal funding from the BIL and IRA, Southeastern utilities may once again roll out similar arguments, but it would be a mistake to dial back utility efficiency program investment. While new federal efficiency tax credits and rebate programs have rightly garnered attention, their annualized spending levels for the Southeast region are roughly equivalent to annual spending on utility efficiency programs. Not only would it be a mistake for utilities to reduce their efficiency investments in response to new federal spending, the IRA includes language specifically cautioning against it.

But remember, efficiency performance in the South has long trailed other regions. Combining traditional utility energy efficiency programs with the new federal spending provides a unique chance for the Southeast to make up for lost time by capturing untapped efficiency resources. There can be little doubt states and utilities in other regions will be doing so, potentially leaving us even further behind if we do not seize this once in a lifetime moment.

TO MAXIMIZE BENEFITS, UTILITIES, AND STATES MUST ALIGN THEIR EFFICIENCY PROGRAMS

New federal rebate programs for energy efficiency and electrification will be administered by state energy offices, and expanded tax credits will be implemented through the IRS. How well these new programs align with utility efficiency programs will have significant implications for customers. To avoid confusion and maximize energy saving benefits for customers, utilities and state energy offices will need to proactively coordinate their efforts. This should include finding ways to leverage federal programs, both rebates and tax credits, and existing utility energy efficiency program offerings together. Providing clear marketing information and creating convenient ways for customers to access all available incentives is also important. Utility Commissions can also play an important role by updating regulations where needed, ensuring utilities' efficiency programs are aligned with the new federal incentives, and requiring utilities to appropriately reflect the impacts of BIL and IRA in their integrated resource plans.

EFFICIENCY AS AN ENERGY RESOURCE

ENERGY EFFICIENCY IN INTEGRATED RESOURCE PLANNING

Demand-side management, which includes energy efficiency, has long been recognized as a least-cost energy resource and a valuable alternative to traditional supply-side power generation. This is because it is often cheaper to invest in helping customers cut energy waste, rather than build more expensive power generation to supply it. The benefits of energy efficiency programs include reduced demand for power generation, reduced risk from fuel price volatility and power plant construction cost overruns, and improved grid reliability – especially during extreme weather and times of peak demand. There is a myriad of non-energy benefits of efficiency as well, like pollution reduction, job creation, and improved health and comfort, but these benefits are typically not considered during utility resource planning.

Utilities can include efficiency resources in resource planning in a variety of ways, typically comparing the cost of energy efficiency program investments by the utility against the cost of serving the same energy needs with power generation. However, some important energy efficiency benefits, like fuel price hedging and improved utility system resilience, are often excluded. Ultimately, only efficiency savings from utility programs are considered in resource selection as part of the resource planning process, although savings that are assumed to occur outside of such programs are important for estimating future energy demand. But not all utility resource planning includes this comparison of cost effectiveness between efficiency resources and supply resources.

EFFICIENCY RESOURCE PLANNING IN SOUTHEASTERN STATES VARIES CONSIDERABLY

The grid reliability and financial benefits of energy efficiency are tremendous. But there is a tension between what is best for customers and the financial interests of utility companies, which frequently leads utilities to downplay efficiency options during resource planning. Stakeholders like SACE have an important role to play in advocating for increased attention to energy efficiency as a resource. This is especially needed here in the Southeast, where historic underinvestment in efficiency has contributed to energy consumption that is far higher than the national average, forcing customers to foot some of the highest bills in the country. Resource planning practices vary considerably across states and utilities, especially in regard to how efficiency is factored into utility resource planning.

ALABAMA

Alabama does not require utilities to conduct formal integrated resource planning. What Alabama Power files with the Commission as its resource plan lacks even the most basic elements of other utilities' IRPs, namely disclosure of its modeling assumptions and consideration of energy efficiency as an alternative to supply-side resources. Failure to conduct transparent integrated resource planning is a big part of why Alabama consistently has the worst efficiency performance in the Southeast, and its customers have among the nation's highest electricity consumption and monthly bills.

FLORIDA

Utilities in Florida do not conduct formal integrated resource planning, instead they produce what is called a Ten Year Site Plan each year. The only efficiency included in the TYSP are savings levels established in a separate efficiency goalsetting process that occur once every five years. These savings levels are often among the lowest in the nation for major electric utilities. The Ten Year Site Plan process does not include analysis to determine whether higher levels of utility investment in energy efficiency would reduce total utility system costs for customers.

GEORGIA

Historically, Georgia Power used prescribed efficiency savings levels in the IRPs it files with the Georgia PSC every three years, but in 2022 the Georgia PSC ordered the utility to allow both demand response and energy efficiency to compete head-to-head against supply-side resources in the utility's next resource planning process in 2025. The aim is to identify economically optimal levels of efficiency investment.

MISSISSIPPI

IRP rules were established in Mississippi for the first time in 2019. After many years with energy efficiency programs in a "QuickStart" phase, the Commission rolled its efficiency policies into the new IRP rules. However, in the first cycle of resource planning under the new rules, both Entergy and Mississippi Power submitted resource plans that were demonstrably inferior to the plans submitted by their sister companies in other states. Their IRPs did not move the needle on efficiency, though the utilities indicated intentions to grow their efficiency savings after the plans were finalized. How or whether energy efficiency requirements in future IRPs will be strengthened remains to be seen.

NORTH CAROLINA

North Carolina has combined its IRP process for Duke's two utilities into a single proceeding that covers both the IRP and the Carbon Plan, where Duke Energy Carolinas and Duke Energy Progress evaluate resources to meet future needs, reliability requirements, and carbon reduction targets. While the North Carolina regulations do not specify levels of energy efficiency, the North Carolina Utilities Commission has directed Duke to look at both its proposed level of energy efficiency and a higher level of energy efficiency.

SOUTH CAROLINA

The South Carolina PSC now has regulatory oversight for integrated resource planning by three electric utility systems – Duke, Dominion, and the state-owned public utility Santee Cooper. In the wake of the VC Summer nuclear power plant debacle, South Carolina's Energy Freedom Act (Act 62) established new responsibilities for electric utilities around resource planning, and directed the Commission to oversee compliance with the new law. One outcome of the changes is that the Commission has directed utilities to evaluate certain levels of energy efficiency savings, in particular requiring that Dominion evaluates savings levels up to 2% of annual retail sales in its 2023 IRP.

TENNESSEE

The Tennessee Valley Authority once sought to be a leader on energy efficiency in resource planning, and for two cycles it showed that substantial investments in efficiency were warranted. However, its actions never lived up to its plans, and TVA's most recent IRP essentially eliminated efficiency as a resource. Following a congressional oversight letter criticizing the utility's poor record on energy efficiency and other clean energy resources, TVA has promised to do better in its next IRP, which is slated to begin in 2023 or 2024. But whether or how that will happen also remains to be seen.

THE IMPACT OF FEDERAL EFFICIENCY PROGRAMS

A massive infusion of federal funding for energy efficiency over the next decade from the BIL and IRA has significant implications for utility resource planning, both in substance and process. Additional efficiency savings resulting from these federal programs will impact future demand forecasts for electric utilities. Federal efficiency rebate programs could also help to propel utility efficiency programs to achieve higher savings levels. It is also possible that utilities ignore those opportunities or even argue against utility investment due to the new federal funding. As a matter of process, utilities should diligently explore the implications of new federal efficiency spending, though some will likely claim that uncertainty about the specific future impacts on energy demand justifies ignoring it for now. Ultimately, it will be up to stakeholders and regulators to ensure utility resource plans appropriately consider and incorporate the impacts of IRA and BIL on utility resource planning.

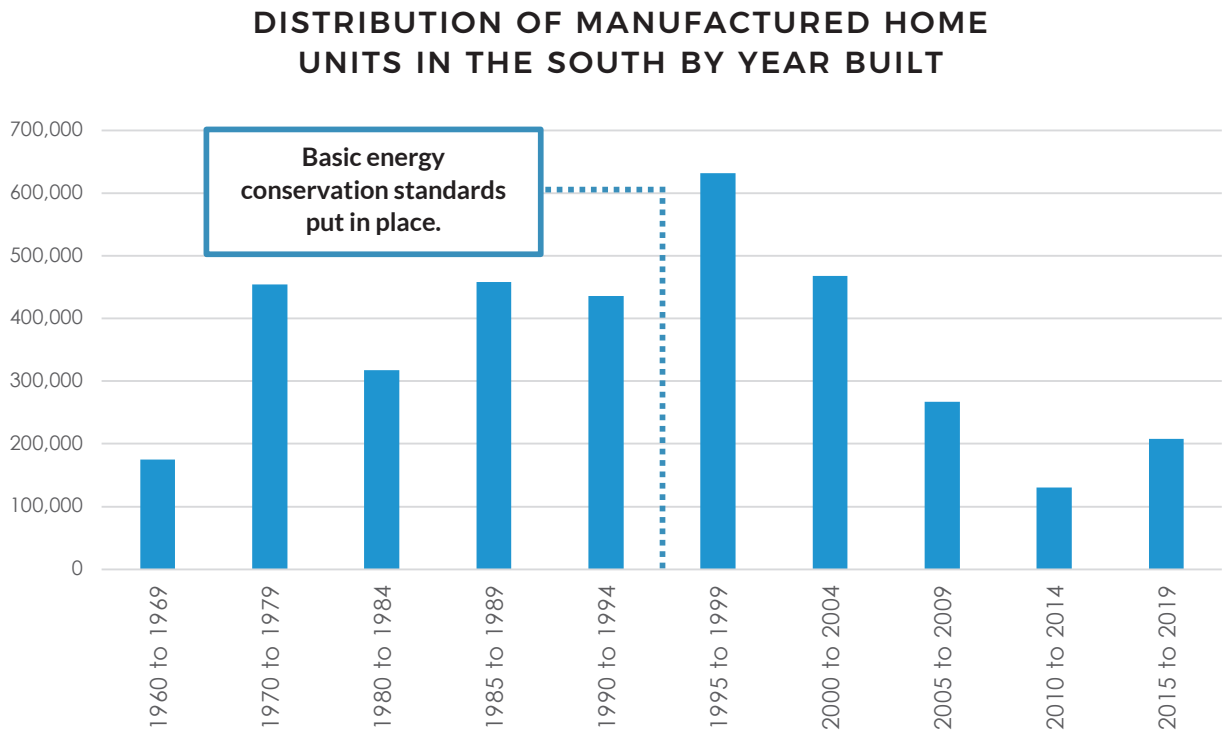
MANUFACTURED HOUSING AND EFFICIENCY

Manufactured housing, also known as mobile homes, have the highest energy consumption per square foot of any housing type, making them a prime candidate for energy efficiency improvements. On average, manufactured homes use about 50% more electricity than single- or multi-family homes. The majority of residents of manufactured homes are low- and fixed-income households, with annual income that is about half of the average for single family homes. In the Southeast, there are few examples of utility energy efficiency programs specifically targeting this housing segment, and there is almost no reporting of participation by manufactured home residents in standard utility efficiency programs. In 2021, the Georgia Public Service Commission directed Georgia Power to fund efficiency projects in manufactured homes, which could be the start of a trend across the Southeast.

MANUFACTURED HOMES IN THE SOUTHEAST BY STATE

STATE	MANUFACTURED HOMES	PERCENTAGE OF MANUFACTURED HOUSING IN U.S.	NATIONAL RANKING
Florida	831,641	10%	1
North Carolina	581,328	7%	3
Georgia	373,960	4%	5
South Carolina	367,358	4%	6
Alabama	296,231	4%	8
Tennessee	267,878	3%	10
Mississippi	196,763	2%	14
Southeast	2,915,132	35%	

There are 8.4 million manufactured homes in the U.S. and 2.9 million, or about 35% of them, are in the Southeast. Manufactured homes represent a little over 11% of the Southeast's residential housing stock. Florida, North Carolina, and Georgia are all in the top five states for total manufactured homes.



In 1976 standards were established to ensure the longevity of manufactured homes, and basic energy conservation standards for manufactured homes were put in place in 1994. Unfortunately, many of the manufactured homes in the South[2] were built after the longevity standards were enacted but before the creation of energy conservation standards. Thus, much of the manufactured housing stock is long-lasting but extremely inefficient.

[2] U.S. Census Bureau 2016-2020 ACS 5-year Public Use Microdata Samples (PUMS) West South Central, South Atlantic, East South Central Unit Records. ACS data groups manufactured homes in the "mobile homes" category of unit structure type. The Southeast falls within a portion of the South region. Please see appendix A for map.

UTILITY COMPANY PROFILES

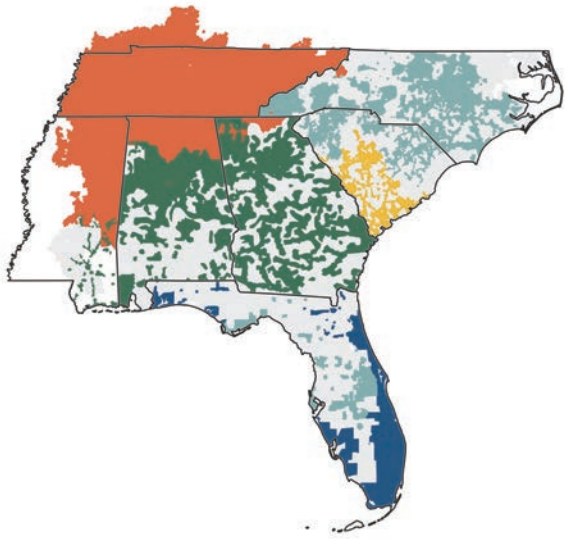
DUKE ENERGY

DOMINION ENERGY

SOUTHERN COMPANY

TVA

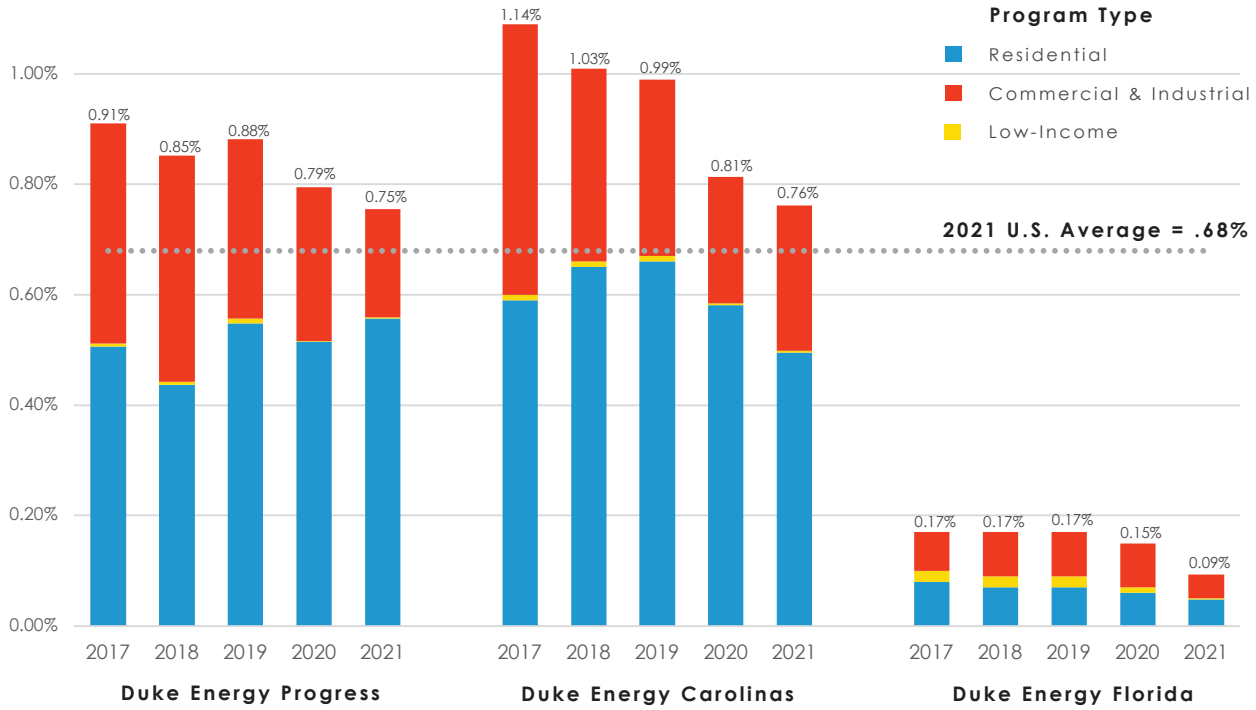
NEXTERA



DUKE ENERGY

Duke Energy is one of the largest electric holding companies in the country. It operates three electric utilities in the Southeast, including Duke Energy Florida, Duke Energy Progress and Duke Energy Carolinas. **Duke Energy Carolinas** serves approximately 2.7 million customers in North and South Carolina. **Duke Energy Progress** serves approximately 1.6 million customers in North and South Carolina. **Duke Energy Florida** serves approximately 1.8 million customers in Florida. Duke Energy also has utilities in Indiana, Ohio, and Kentucky that are not included here.

DUKE ENERGY | ENERGY SAVINGS AS % OF RETAIL ELECTRIC SALES



EFFICIENCY'S CONTRIBUTION TO NC'S CARBON REDUCTION TARGETS

North Carolina is the only state in the Southeast to have formally committed to cutting carbon emissions from its electricity sector. In its inaugural Carbon Plan, the North Carolina Utility Commission's final order adopted Duke's proposed efficiency savings goal, which was nominally 1% of "eligible" retail sales.[3] Following our modeling that included savings of 1.5% of total retail sales, the Commission also directed DEP and DEC to seek a more aspirational goal of 1.5% savings of eligible retail sales, and include this higher savings level as an alternate modeling scenario in its next Carbon Plan/Integrated Resource Plan (CPIRP).

On its face, this appears to represent progress, even if incremental, but it is worth noting that even at this level Duke will continue to lag behind average savings achieved by peer utilities around the country. Because Duke removes opt-out customers from its retail sales figure before calculating efficiency savings, the utility's current 1% target of so-called "eligible sales" is actually lower than its actual savings performance in recent years. Nevertheless, Duke has indicated a desire to pursue several new "enablers" for achieving higher efficiency and demand-side savings, and the Commission directed the utility to file corresponding applications and rulemaking requests for consideration that could open up additional savings opportunities.

STRUGGLING TO SERVE DUKE'S LOW-INCOME CUSTOMERS

In the wake of the COVID-19 pandemic, efficiency savings for Duke's low-income customers have taken a devastating turn for the worse. In 2020 and 2021, efficiency savings from Duke's income qualified programs in Florida fell by a whopping 75% compared to 2019. In the Carolinas, Duke's income qualified efficiency program savings fell by 77%, and savings for its residential multifamily housing program fell by 84%. Given the recent financial impacts of the pandemic and rising inflation, this decline could not have come at a worse time for low-income households. Labor shortages and supply chain issues have further complicated the return to pre-pandemic savings in these programs, but hopefully soon they will again reach full capacity and grow to meet the full scale of customer needs.

Following Duke's most recent rate case in North Carolina, in early 2021 the Commission ordered the creation of a year-long Low-Income Affordability Collaborative (LIAC). The final report from the LIAC states that approximately 29% of DEC and DEP residential account holders fall below 200% of the Federal Poverty Guideline, and therefore qualify for Duke's income qualified efficiency programs. This equates to an estimated 900,000 households meeting the low-income criteria, with approximately 490,000 struggling with arrears (unpaid bills). The majority of recommended actions in the LIAC report relate to expanding efficiency programs to improve energy bill affordability for low-income households, but the Commission took no direct action in response to the report.

RECENT STRIDES TO EXPAND LOW-INCOME EFFICIENCY OFFERINGS

Rate case settlement agreements between Duke, SACE, and our advocacy partners represented by the Southern Environmental Law Center have nevertheless produced tangible results in other ways. In 2022, Duke submitted an application to the Commission for a pilot program that we co-designed, which is aimed at delivering deep efficiency improvements at no cost to participants for low-income households with very high energy use. Duke will also work with us this year to develop a pilot program to serve low-income renters in multifamily buildings.

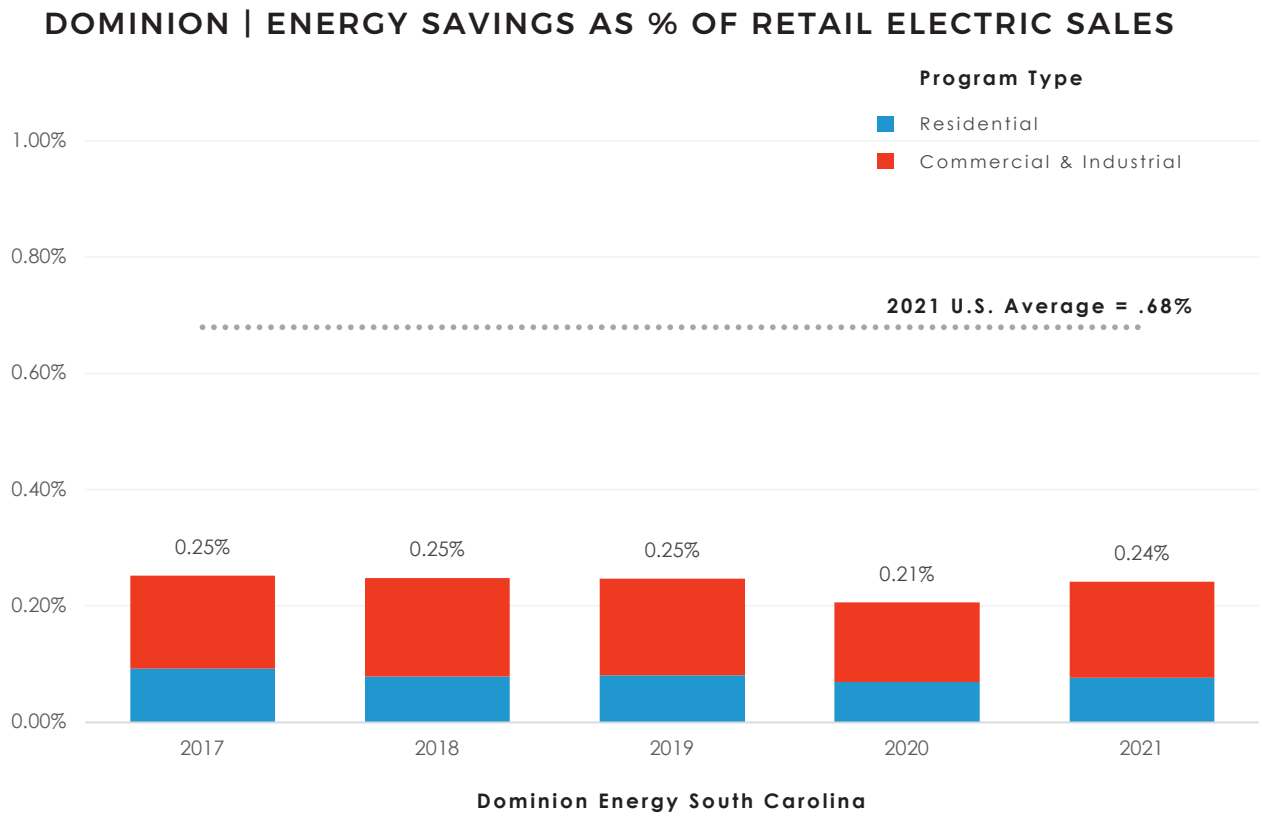
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[3] In contrast with past precedent and conventional methods used by monitoring organizations like ACEEE, SACE, and others, the calculation method Duke proposed redefined the target by removing opted-out commercial and industrial customers from the retail sales figure used to calculate the percentage of efficiency savings. This change in how efficiency savings are calculated results in a less ambitious efficiency savings target than Duke had agreed to following the merger of Progress Energy and Duke Energy Carolinas.

Also from the rate case settlement, Duke filed an application for Tariffed On-Bill financing to cover the upfront cost of major efficiency improvements, with repayment collected over time on a customer's bill. If approved, the program will be open to all customers regardless of income. In DEP's most recent South Carolina rate case, the South Carolina Public Service Commission approved a settlement agreement between Duke, SACE, and our advocacy partners represented by the Southern Environmental Law Center that requires the utility to double the amount of spending for the its low-income efficiency programs in the state. Separately, after years of advocacy, DEP also filed an application for a deep efficiency weatherization program currently offered only to customers of DEC. Taken together, these are encouraging steps toward much needed expansion of efficiency program offerings to Duke's low-income customers in the Carolinas.

DOMINION ENERGY SOUTH CAROLINA

Dominion Energy operates electric utilities in Virginia and the Carolinas, but only the South Carolina utility is within the geographic region of this study. **Dominion Energy South Carolina** serves 771,620 customers.



EVEN WITH UNAMBITIOUS GOALS, STILL FALLING SHORT

Dominion Energy South Carolina's annual efficiency savings level is only about one third of the national average, and is even below its in-state neighbor, Duke Energy. For years, Dominion has set only modest efficiency savings goals for itself, and yet it has still consistently fallen short of attaining them. This divergence between the utility's efficiency savings forecast and its actual savings performance was recently raised before the South Carolina Public Service Commission by the Office of Regulatory Staff, who noted the problem it creates for the utility's load forecast during resource planning. In response, the Commission ordered the utility to better align its efficiency savings and load forecast, but unfortunately Dominion used this order not as a nudge to find solutions to actually achieve its savings targets, but instead as justification for lowering its savings goals going into the 2023 IRP.

IF DOMINION CAN'T DO IT, WHO CAN?

Dominion's low savings targets in its 2023 IRP appears to be plainly out of step with the Commission's previous order rejecting Dominion's 2020 IRP, which directed the utility to increase efficiency to 1% annual savings through 2024 and model higher savings levels all the way up to 2% in future IRPs. Instead, Dominion is once again arguing that only savings levels that are well under 1% are achievable. The Commission's 2020 order on Dominion's IRP also specifically directed the utility to engage stakeholders in iterative development of the higher-savings level scenarios, but stakeholders were denied any such opportunity, despite participating in numerous meetings with the utility that were meant to fulfill Commission requirements.

Dominion continues to double down with arguments that it can only achieve very modest efficiency savings levels. If that is so, perhaps it is time the utility was relieved of the responsibility to do something it either can't or won't do, in favor of a new energy efficiency program implementer who can get the job done.

LOW-INCOME EFFICIENCY PROGRAMS IN LIMBO

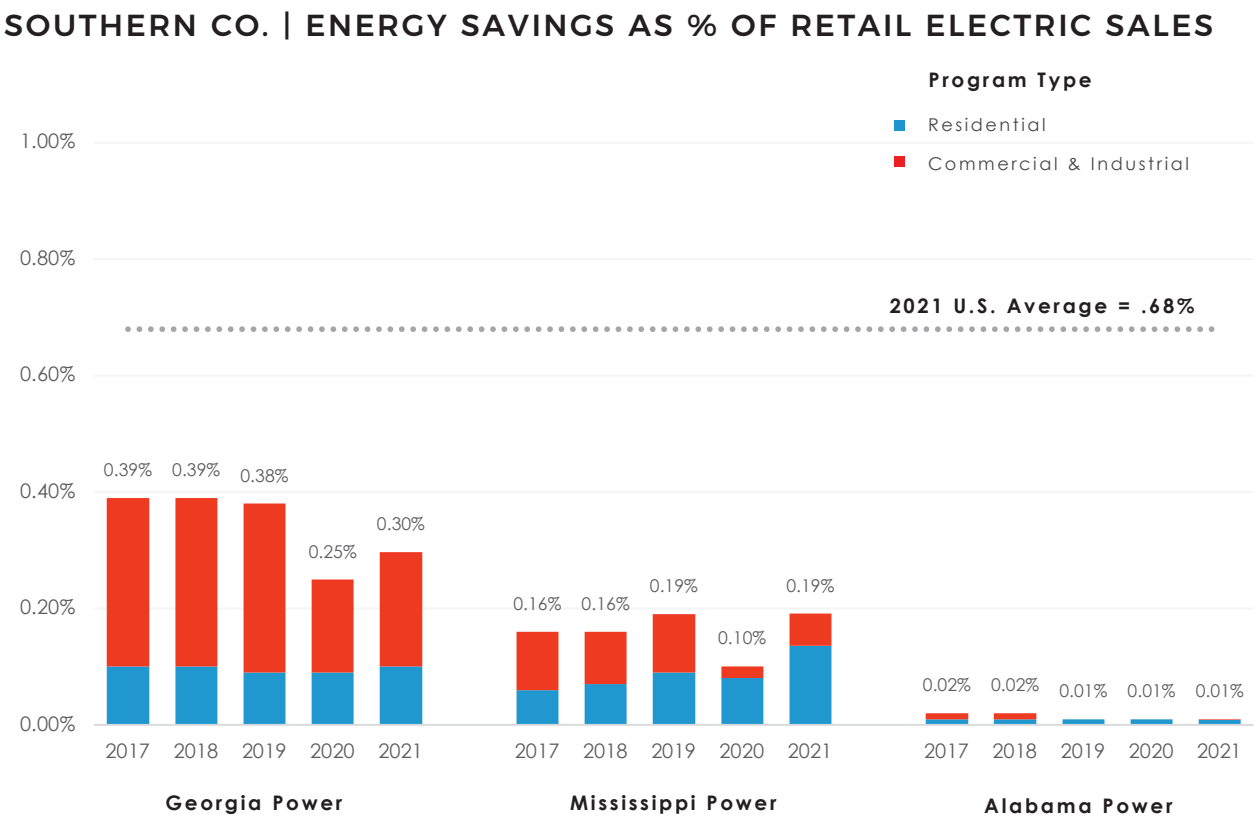
As part of its 2020 IRP process, Dominion indicated that it would double participation in its low-income Neighborhood Energy Efficiency Program (NEEP). This was an encouraging development, for which we applaud both DESC and the Commission. Unfortunately, Dominion's actual efficiency savings in pandemic-impacted 2020 and 2021 fell considerably, with low-income program performance seeing particularly sharp declines.

Dominion's 2021 rate case also had major energy efficiency implications. In settlement negotiations Dominion committed $15 million of shareholder funds for a new deep efficiency retrofit program for low-income customers. That program has not yet been implemented, but is expected to begin April 1, 2023.

SOUTHERN COMPANY

Southern Company is a holding company with three electric utility subsidiaries, all within the geographic scope of this report. **Alabama Power** serves approximately 1.5 million homes, businesses, and industries across the southern two-thirds of Alabama. **Georgia Power** serves approximately 2.6 million customers in all or parts of 155 of the state's 159 counties. **Mississippi Power** serves approximately 190,000 customers within 23 counties in southeastern Mississippi.

Historically, there have been big differences in energy efficiency policies and the company's utility efficiency savings performance in these states.



THE GEORGIA COMMISSION ORDERS HIGHER EFFICIENCY SAVINGS

In Georgia Power's 2019 Integrated Resource Plan, the Commission directed the utility to increase its efficiency savings targets by 15%, an incremental but meaningful step forward. Unfortunately, Georgia Power's efficiency programs went the wrong direction and savings levels fell during the COVID-19 pandemic far more than peer utilities and the national average, ultimately undermining achievement of the higher savings targets.

In the 2022 IRP, the Commission once again ordered Georgia Power to increase its efficiency savings targets by another 15% for each of the next three years, on top of the 15% it had already ordered in the previous IRP. As a result of this decision, customers are expected to receive approximately half a billion dollars in bill savings from efficiency measures that will be implemented over the next three years.

EFFICIENCY TO GO HEAD-TO-HEAD WITH POWER GENERATION

In another major development in the 2022 IRP, the Commission required Georgia Power to allow demand side resources like energy efficiency to compete head-to-head against traditional power plants in the utility's next IRP. This is a best practice for IRPs that has been historically elusive in the Southeast. Considering that higher levels of efficiency resulted in the lowest total cost resource portfolio in the 2022 IRP, it will be exciting to see higher levels of efficiency analyzed in Georgia Power's next IRP.

PRIORITIZING THE EFFICIENCY NEEDS OF MANUFACTURED HOUSING

The 2022 IRP also designated program funding and savings targets specifically for efficiency improvements in manufactured homes. Because of the prevalence of this housing type in the Southeast, their high energy use per square foot, and frequent overlap with low- and fixed-income households, these efficiency investments are expected to produce significant benefits. Going forward, we hope other states will want to follow suit. In fact, the first carryover for this new manufactured home efficiency program is with Georgia Power's sister company, Mississippi Power.

AFTER THE WHISTLE: MISSISSIPPI POWER ANNOUNCES EFFICIENCY EXPANSION

Mississippi Power filed its first ever IRP in 2021 under the state's new rules. Although it was a bust for energy efficiency, soon afterward the utility announced plans to roughly double its annual efficiency savings to about 0.5% over the next few years. Mississippi Power has quite a way to go to attain this goal, and even if successful it will still trail behind most major utilities, but it is a step in the right direction.

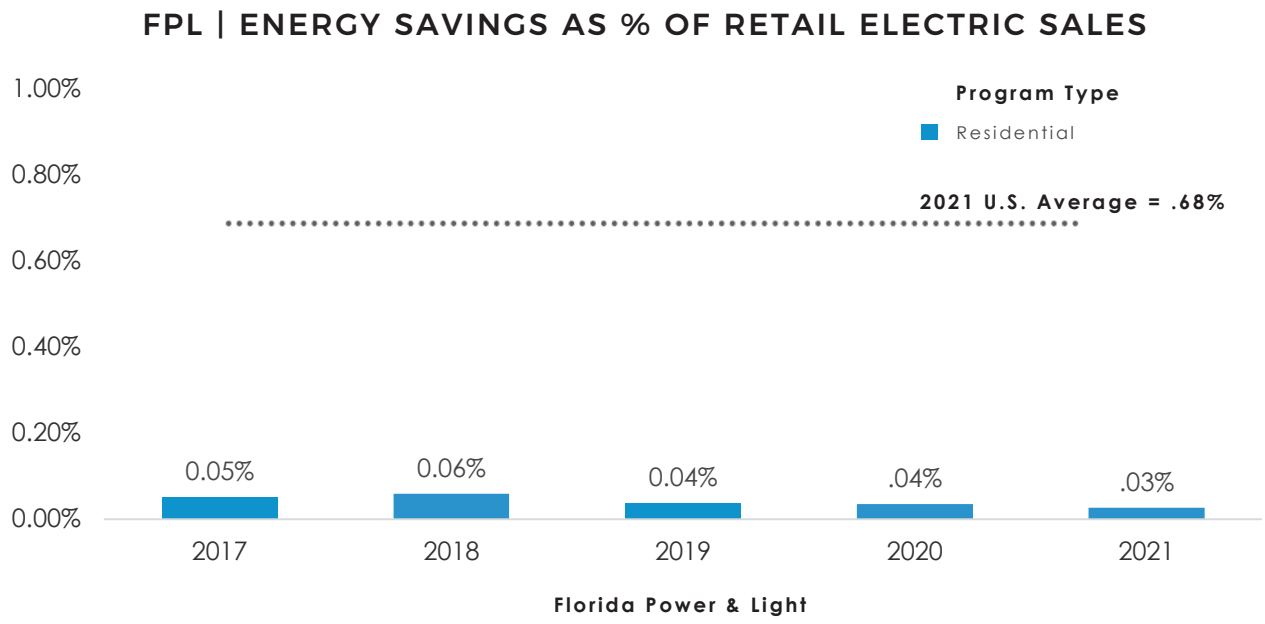
NO NEWS IS BAD NEWS IN ALABAMA

Alabama Power is the outlier among Southern Company subsidiaries for not conducting a formal and public integrated resource plan, nor evaluating efficiency as a resource for meeting customers' future energy needs. Unfortunately, the old adage that no news is good news doesn't apply to energy efficiency in Alabama, where Southern Company's subsidiary Alabama Power continues to be the lowest performing major utility in our region and among the worst in the nation.

The utility's only current offerings are a rebate for smart thermostats and another for water heaters. The latter program is premised on converting only gas water heaters to electric, which we conceptually support, but ironically it is clear the true intent of this program is to increase electricity usage and boost the utility's revenues.

FLORIDA POWER & LIGHT

Florida Power & Light is a subsidiary of NextEra Energy. FPL serves over 5.6 million customers in the northwestern, southern, and eastern portions of Florida, representing more than half of all electric customers in the state.



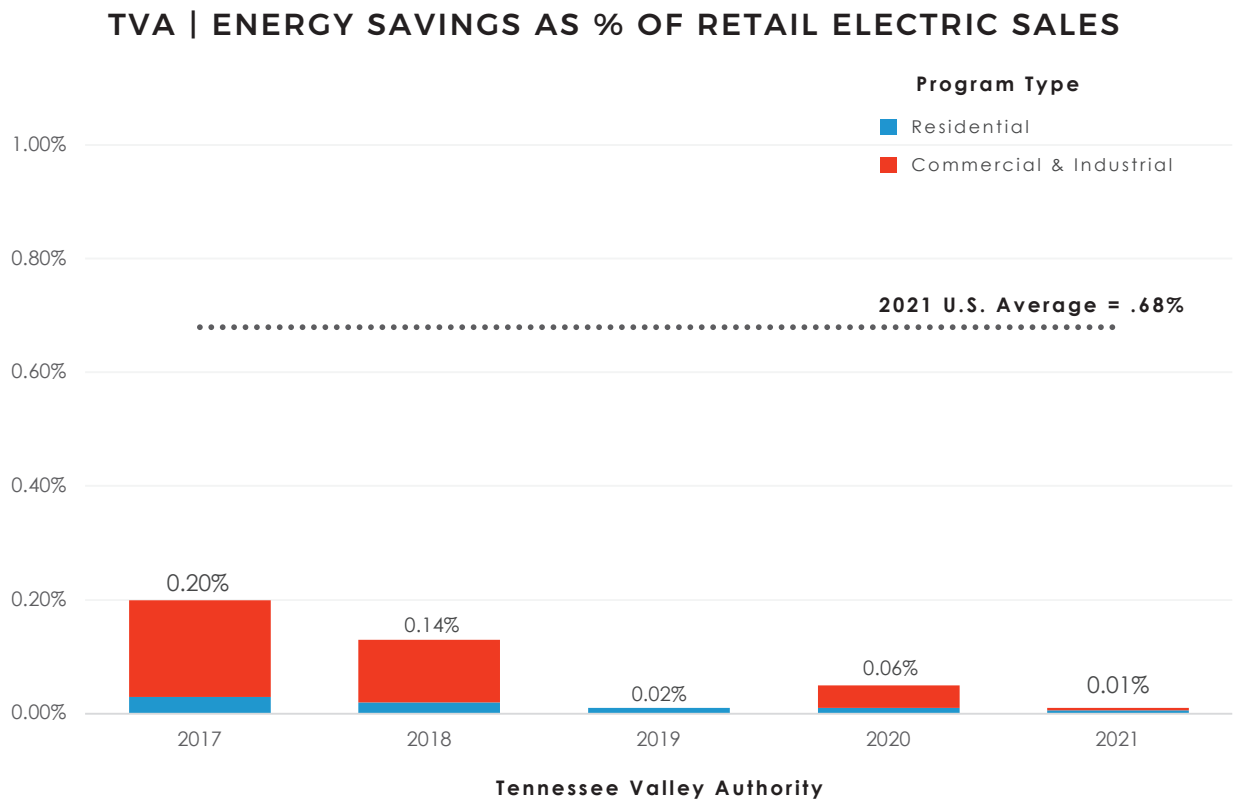
Florida Power & Light's efficiency performance has historically been among the lowest in the Southeast, and in 2021 its annual savings declined even below 2020 levels. Because FPL generates over half of all electric sales in Florida, its decisions surrounding energy efficiency have enormous repercussions for the entire state, and particularly for FPL's more than five million customers. Unfortunately, FPL has consistently resisted expanding energy saving programs – both as a matter of policy and as a matter of company practice.

In June 2022, FPL's parent company, NextEra, announced a commitment to achieve "Real Zero" carbon emissions by 2045, and distinguished its intentions from those of other utilities that rely on buying carbon offsets to justify continuing to use fossil fuels to generate power. Instead, to achieve its decarbonization goal, FPL plans to replace existing fossil fuel generation with *"a diverse mix of solar, battery storage, existing nuclear, green hydrogen and other renewable sources."* Conspicuously missing from FPL's decarbonization strategy, however, is any mention of energy efficiency.

Without a plan to expand efficiency, the least cost energy resource, FPL's transition to clean energy will be more expensive, and it risks exacerbating existing energy equity problems. For customers who already struggle to afford high bills, energy efficiency is an essential service that will remain important as we transition to clean energy. For this and many other reasons, energy efficiency should be a first-choice resource for decarbonizing the grid… even at FPL.

TENNESSEE VALLEY AUTHORITY

The federally-owned **Tennessee Valley Authority** serves approximately 4.9 million customers in Tennessee, Alabama, Georgia, Kentucky, Mississippi, North Carolina, and Virginia.



LACK OF EFFICIENCY INVESTMENT DRIVES USAGE AND COSTS UP FOR CUSTOMERS

The Tennessee Valley Authority once promised to be a leader in energy efficiency, but in practice, the utility's efficiency investments have never lived up to those promises. Instead, TVA relies ever more on fossil gas for power generation and has no real strategy for cutting energy waste to reduce demand or the need for expensive power generation.

For the past decade, TVA has underspent on energy efficiency, and in 2018 it ended its standard efficiency rebate programs altogether. The only residential efficiency program TVA now offers is for low-income weatherization, and its funding and energy savings through that program lag behind its utility peers. TVA's historic lack of efficiency investment perpetuates unnecessary energy waste and leads to significantly higher energy bills. In 2021 residential customers in Tennessee consumed nearly 34% more electricity than the national average – making it once again the second highest state for residential electricity consumption in the country. Unfortunately, TVA continues to head in the wrong direction, and in 2021 fell to new lows, with its annual energy efficiency savings tied for the bottom alongside Alabama Power.

INEFFICIENT HOMES EXACERBATE WINTER POWER OUTAGES

Without energy efficiency, customers struggle to cool and heat inefficient homes during extreme hot or cold weather, causing energy demand to skyrocket, as it did on Christmas Eve 2022 across a large part of the Southeast region. This in turn placed extreme stress on the power grid, and TVA had to implement rolling blackouts throughout the Valley during Winter Storm Elliott to maintain the stability of the grid that covers most of the United States. These were just the latest reminder that continued failure to invest in energy efficiency can have devastating consequences when power consumption demands are pushed to the max. If TVA had consistently made prudent investments in energy efficiency, instead of repeatedly slashing funding for its efficiency programs, it could have insulated the grid from demand spikes, and potentially prevented the need for rolling outages.

RETIRING COAL PLANTS: EFFICIENCY VS. FOSSIL GAS

TVA has announced its plan to replace two of its retiring coal plants, Cumberland and Kingston, by constructing new fossil gas power plants. These two projects would lock TVA customers into carbon-emitting power for decades to come. Instead, a focus on renewable energy and energy efficiency could ramp up to replace these retiring coal plants and negate the need to build new fossil gas pipelines. Ultimately, the best route for deciding how to replace these and other major generation retirements is through an IRP. TVA is required to complete an IRP every five years, so it will need to start its resource planning process soon. However, TVA has indicated it will not start its next IRP until late 2023, meaning it will likely miss its five-year requirement.

CONGRESS INVESTIGATES TVA OVER EFFICIENCY AND CLEAN ENERGY

On January 13, 2022, the House Energy & Commerce Committee sent an oversight letter to TVA inquiring about its practices and policies on energy efficiency, solar, rate setting, carbon reductions, and funding it provided for anti-Clean Air Act lobbying. TVA's response included cherry-picked figures and long debunked arguments, but TVA did commit to increasing its investment in energy efficiency following its next IRP.

FEDERAL FUNDING CREATES A NEW OPPORTUNITY FOR EFFICIENCY AT TVA

Both its pending IRP and new funding opportunities resulting from the BIL and IRA create the conditions for TVA to become the energy efficiency leader it once promised to be. The question is whether TVA will take the opportunity this time and make good on those promises. The IRA is particularly impactful to TVA and its customers because it allows tax-exempt entities, like TVA, to take advantage of financial incentives that lower the cost of clean energy resources like solar, storage, and wind. In addition, new federal spending on energy efficiency will further reduce the need for fossil fuel power generation, thereby accelerating and lowering the cost of making the transition to a clean energy grid.

STATE PROFILES

ALABAMA
FLORIDA
GEORGIA
MISSISSIPPI
NORTH CAROLINA
SOUTH CAROLINA
TENNESSEE



View Appendix A for details on state coverage.

ALABAMA

The Alabama Public Service Commission is a three-person regulatory-body for Alabama Power. The Tennessee Valley Authority is regulated by a nine-member Board of Directors. Since TVA is a federal agency, board members are appointed by the President and confirmed by the U.S. Senate. PowerSouth Energy Cooperative is managed by its board.

ALABAMA ENERGY EFFICIENCY PERFORMANCE

UTILITY	% EE
Southeast Average	0.19%
PowerSouth	0.02%
Alabama Power	0.01%
Alabama Average	**0.01%**
Tennessee Valley Authority	0.01%

In a state without policy, regulatory oversight, or utility leadership on energy efficiency, Alabama's largest utilities, Alabama Power and TVA, are regularly the worst performing in the region.

Alabama Power does not perform integrated resource planning with stakeholder involvement or the kind of regulatory oversight that is standard practice in the industry for major utilities. When the utility does undergo resource planning at all, it is conducted behind closed doors, lacks meaningful regulatory oversight, and excludes key resources like energy efficiency.

It is hardly surprising, then, that Alabama has the nation's 4th highest monthly residential energy consumption and third highest energy bills. Extraordinarily high energy bills and high rates of poverty and inequality create the conditions for unaffordable energy burdens, with no remedy in sight.

FLORIDA

The Florida Public Service Commission is a five-person regulatory body that has jurisdiction over the largest electric utilities on goal-setting for energy efficiency. Commissioners are appointed by the state's governor and confirmed by the Florida Senate. Investor-owned utilities regulated by the Florida PSC include Tampa Electric Company, Duke Energy Florida, and Florida Power & Light. The Florida PSC also oversees energy efficiency goal-setting for select public utilities in the state including Orlando Utilities Commission, JEA, and the Florida Public Utilities Company.

FLORIDA ENERGY EFFICIENCY PERFORMANCE

UTILITY	% EE
Orlando Utilities Commission	0.30%
Tampa Electric Company	0.30%
Southeast Average	0.19%
JEA	0.17%
Duke Energy Florida	0.09%
Florida Average	**0.08%**
Florida Public Utilities Company	0.04%
Florida Power & Light	0.03%

Florida utilities are heavily reliant on fossil gas, which provides approximately 70% of the state's total power generation. Therefore, when gas prices spike, like they did in the aftermath of Russia's invasion of Ukraine, customer bills rise steeply. Unfortunately, major Florida utilities like FPL have failed to make meaningful investment in energy efficiency resources, leading to more gas being burned, with higher costs passed on to all customers. Meanwhile, insufficient utility efficiency program offerings simultaneously deprive families of a valuable tool to save money on their power bills.

The unfortunate truth is that power bills today are higher than ever in Florida, and hard-working families need greater access to energy efficiency programs to help them manage their bills. After a nearly three-year process, the Commission has yet to modernize its rules to encourage meaningful utility energy efficiency goals and programs. Until there is real reform to Florida's energy efficiency rules, the state's major electric utilities will continue to be near the bottom of national rankings on efficiency performance.

By cutting energy waste, efficiency is the best tool for helping individual customers to quickly lower their energy bills, while also reducing the overall cost of providing power over time, which brings financial benefit to the general body of customers as a whole. But unless the Commission takes action, the existing efficiency rules will still be a major barrier to lowering energy bills for customers. Time and again, Florida's efficiency rules and practices have been far out of step with the rest of the nation, and used by Florida utilities to limit, rather than increase, energy savings opportunities for customers.

Florida utilities commonly argue that lost revenues from energy efficiency program savings results in a subsidy paid by other customers. This argument falls flat on several counts. To begin with, economic benefits of reducing energy consumption accrue to all customers. Moreover, in a state with a growing population and customer base, utility revenues continue to increase and earnings remain high, so efficiency savings do not result in unrecovered lost revenues that need to be collected. For instance, FPL consistently earns an 11.8% return on equity - the top of its authorized range and above the national average – even when fuel price spikes drive customer bills up. Given this level of earnings, scaled-up customer energy efficiency programs do not justify a utility filing a rate case to recover claims of lost revenue.

The vast majority of states require major utilities to undertake integrated resource planning under the oversight of Commission IRP rules and with opportunities for public scrutiny and input. Florida's Ten Year Site Plan process falls short of these standards, both in terms of transparency and evaluation of energy efficiency as a resource. Instead of determining the best level of energy efficiency investment through IRP analysis, Florida utilities just assume they will meet minimal requirements established through the state's broken energy efficiency goal setting rule – never evaluating the level of efficiency investment that will produce the lowest system cost. As a result, customers are on the hook to pay for even more expensive power generation, which has contributed to today's over-reliance on fossil gas generation in the Sunshine State.

GEORGIA

The Georgia Public Service Commission is a five-person elected-body that has authority over Georgia Power. Municipal utilities in Georgia have local authority over decision-making and cooperatives in the state – including Oglethorpe Power Corporation – are managed by their member-elected boards. The Tennessee Valley Authority is regulated by a nine-member Board of Directors. Since TVA is a federal agency, board members are appointed by the President and confirmed by the U.S. Senate.

GEORGIA ENERGY EFFICIENCY PERFORMANCE

UTILITY	% EE
Georgia Power	0.30%
Georgia Average	**0.20%**
Southeast Average	0.19%
Oglethorpe	0.07%
Tennessee Valley Authority	0.01%
Municipal Utilities	0.00%

In 2021, the Georgia Public Service Commission directed Georgia Power to set aside $1.5 million specifically for efficiency projects in manufactured homes, which could be the start of a trend across the Southeast. According to Georgia Power representatives, the program is expected to be very cost effective, producing between $1.60 - $1.80 in energy savings for each program dollar spent. Soon after the Georgia Commission's decision, sister company Mississippi Power indicated that it too would be offering a manufactured housing efficiency program, a trend we hope will continue soon in other Southeastern states.

MISSISSIPPI

The Mississippi Public Service Commission is a three-person elected-body that has authority over Entergy Mississippi and Mississippi Power. The Tennessee Valley Authority is regulated by a nine-member Board of Directors. Since TVA is a federal agency, board members are appointed by the President and confirmed by the U.S. Senate.

MISSISSIPPI ENERGY EFFICIENCY PERFORMANCE

UTILITY	% EE
Entergy Mississippi	0.22%
Southeast Average	0.19%
Mississippi Power	0.19%
Mississippi Average	**0.12%**
Tennessee Valley Authority	0.00%

Mississippi's recently established integrated resource planning rules, unfortunately, delivered no additional energy efficiency in its first planning cycle. But since then both Mississippi Power and Entergy Mississippi have indicated plans to increase efficiency savings in annual Energy Delivery Plans filed with the Commission.

After years of low performance, in 2021 Mississippi Power filed a plan with the Commission that would roughly double its efficiency savings over the next seven years to 0.5% of its 2020 retail sales. Because the pandemic reduced total retail sales in 2020, Mississippi Power's target makes its proposed savings appears higher than it would otherwise be if future efficiency savings were divided by the expected retail sales figures in a more typical year. And 0.5% is still far lower than most of its utility peers nationally. But Mississippi Power's plan to increase its efficiency savings is still a step in the right direction. In the near term, Mississippi Power is seeking additional savings by including large general service customers in its portfolio, expanding its behavioral energy efficiency program, and adding multifamily and manufactured housing efficiency offerings.

In 2021, Entergy Mississippi's efficiency savings rebounded 30% from its performance in 2020. It proposes increasing its annual budget from $11 million to a bit over $16 million in 2023.

NORTH CAROLINA

The North Carolina Utilities Commission is a seven-member government agency that regulates Duke Energy Carolinas and Duke Energy Progress. Cooperatives in the state are managed by their local boards, while the states municipal utilities are managed by local government.

NORTH CAROLINA ENERGY EFFICIENCY PERFORMANCE

UTILITY	% EE
Duke Energy Carolinas	0.76%
Duke Energy Progress	0.74%
North Carolina Average	**0.57%**
North Carolina Cooperatives	0.26%
Southeast Average	0.19%
North Carolina Municipals	0.02%

EFFICIENCY'S ROLE FOR DECARBONIZATION

North Carolina's commitment to decarbonization following the enactment of House Bill 951 in the fall of 2021 creates a new impetus for expanding energy efficiency savings. As the least cost strategy for reducing emissions from fossil fuel generation, increased investment in efficiency is key to making the transition to a clean energy grid affordable for all. Programs that assist low- and moderate-income households to capture efficiency savings and lower their energy bills should be prioritized and expanded in order to ensure that the benefits of our shift to clean energy are equitable, and meet the needs of customers who are already struggling to afford essential electric utility service.

Ultimately, the North Carolina Utilities Commission is responsible for developing the state's carbon plan. But in its inaugural cycle, the Commission largely adopted Duke Energy's proposed decarbonization plan. This result was disappointing given the considerable input from clean energy organizations (like SACE) showing that higher levels of renewable energy and energy efficiency investment could reduce the cost of Duke's plan by as much as 19% and avoid new investments in expensive and polluting new fossil gas generation.[4] However, the Commission did set an aspirational goal for Duke to pursue savings of at least 1.5% of "eligible load," and directed the utility to seek regulatory approval for several potential enablers of additional savings. Going forward, Carbon Planning and Integrated Resource Planning processes will be combined and occur every two years.

NEW FEDERAL FUNDING CAN TURBOCHARGE DECARBONIZATION

The BIL and IRA have the potential to rapidly accelerate North Carolina's decarbonization efforts. These new laws will greatly improve the economics of many clean energy resources, but energy efficiency is in for a particularly significant boost. The state is receiving formula allocations for energy efficiency and high efficiency electrification rebates totaling $209 million and nearly $90 million in expanded Weatherization Assistance Program funding. Individual residents and businesses can take advantage of generous federal tax credits, and local governments can compete for grants and loans worth billions of dollars. In short, these federal funds will further expand the impact of efficiency in the state while reducing the cost of complying with the state's greenhouse gas reduction targets.

[4] Synapse Energy Economics, Inc. Carbon-Free by 2050: Pathways to Achieving North Carolina's Power Sector Carbon Requirements at Least Cost to Ratepayers. July 20, 2022. Available at: https://cleanenergy.org/wp-content/uploads/2022-07-20-Synapse-Report-w-Attach-PUBLIC- -REDACTED- -E-100-Sub-179.pdf.

How all of these new federal funds will be deployed in North Carolina remains to be seen, but utilities could play a major role to maximize benefits for their customers. If utilities leverage their own spending on efficiency with the federal funds, more customers will be served with deeper overall efficiency savings. In parts of the state where no utility efficiency programs are currently offered, delivery of federal funds could meet a long-underserved need – while hopefully setting the stage for local utilities to start offering their own programs soon. States that are proactive in their approach to efficiency are likely to see the greatest gains, and North Carolina is uniquely positioned for this once-in-a-generation opportunity

SOUTH CAROLINA

The South Carolina Public Service Commission is a seven-member regulatory body that oversees Duke Energy Carolinas, Duke Energy Progress, Dominion Energy South Carolina, and the Integrated Resource Plan for state-owned Santee Cooper.

SOUTH CAROLINA ENERGY EFFICIENCY PERFORMANCE

UTILITY	% EE
Duke Energy Carolinas	0.76%
Duke Energy Progress	0.74%
South Carolina Average	**0.37%**
Dominion Energy South Carolina	0.24%
Southeast Average	0.19%
Santee Cooper	0.06%

DOMINION REQUIRED TO SHIFT COURSE AFTER IRP REJECTION

Soon after Act 62 went into effect, the PSC rejected Dominion's 2021 IRP, citing failure to comply with the new law's requirements to analyze higher levels of energy efficiency. Going forward, the Commission directed Dominion to comply with several new resource planning requirements including:

- Increasing efficiency savings to at least 1% annual savings
- Modeling higher efficiency savings in its next IRP, all the way up to 2% annual savings
- Changing its resource modeling software system, and providing access to intervenors
- Convening regular stakeholder engagement meetings throughout the IRP process

On January 31, 2023, Dominion filed its most recent draft IRP, which will now be reviewed by intervenors (including SACE) and the Commission.

STAKEHOLDERS TO HELP INFORM NEW SAVINGS POTENTIAL AT DUKE

Duke Energy fared better before the Commission in its 2021 IRP, which was approved. However, the Commission found that Duke had underestimated efficiency savings by limiting future participation to historic levels, and by not considering increased market acceptance and emerging technologies. It also indicated that Duke should prioritize longer-lived efficiency measures, rather than relying so heavily on short term behavioral programs. Duke's next IRP to be filed in 2023 must reflect work with stakeholders on these issues, a direct statement regarding which stakeholder recommendations the utility did and did not include in its analysis of energy efficiency market potential.

SANTEE COOPER'S IRP NOW UNDER PSC JURISDICTION

For the first time, Santee Cooper is conducting integrated resource planning under the oversight of the Public Service Commission. Under this new arrangement, both the utility and stakeholders are trying to figure out how energy efficiency will fit into its forthcoming IRP, and how stakeholder input will be incorporated. Some of the key questions relate to the need to distinguish between forecasted utility and non-utility efficiency savings levels; incorporating the impacts of new federal funding for efficiency; and understanding the relationship between supply resource planning at Santee Cooper and efficiency for the cooperative utilities that consume the majority of Santee Cooper's generating output.

MAJOR DIFFERENCES IN ENERGY EFFICIENCY PORTFOLIO OVERSIGHT

Beyond resource planning, there are other key differences in how each utility's overall energy efficiency portfolio is regulated. Dominion submits a plan to the Commission every five years, detailing all of its proposed efficiency programs, along with forecasted spending and savings levels. Duke does not come before the Commission for approval of its efficiency portfolio, instead submitting individual program applications on a rolling basis. The Commission does not provide regulatory oversight for Santee Cooper's energy efficiency programs, savings, or spending, which is under the purview of the Santee Cooper board of directors.

CONCLUSION

It is high time for the Southeast to cash in on its lucrative and largely untapped energy efficiency reserves! The national average for annual efficiency savings across all regions except the South is 1.04%, five times higher than what utilities in the Southeast achieved in 2021. Now that the disruption the COVID-19 pandemic had on energy efficiency measures continues to pass, Southeast utilities can work to close the energy savings gap to be more in line with national peer utilities and substantially lower energy waste and reduce monthly energy bills for customers.

As the least-cost energy resource, increased investment in energy efficiency reduces total utility system costs, making it cheaper to meet customer energy needs. Integrated resource planning policies in the Carolinas and Georgia already contain critical building blocks on which a significant expansion of energy efficiency could be made, thereby offsetting the need for more expensive power generation. By contrast, to use low-cost energy efficiency as an alternative to traditional power generation, Florida, Alabama, Mississippi, and the Tennessee Valley Authority will need to make significant improvements in their IRP policies and practices. In all Southeastern states, regulators will have to provide additional guidance and increased oversight to utilities to ensure future utility resource plans fully recognize and maximize the financial benefit of energy efficiency for customers.

New federal energy efficiency programs enacted through the Bipartisan Infrastructure Law and Inflation Reduction Act have the potential to substantially accelerate the deployment of energy efficiency in the Southeast. If our region gets its fair share, these new federal programs could double efficiency savings in the Southeast relative to existing utility efficiency programs. This once-in-a-generation infusion of federal funding for energy efficiency presents a tremendous opportunity, particularly if state agencies and local utilities work together to leverage their combined funding and marketing efforts. Regardless, the new federal funds for energy efficiency will reduce energy consumption in the region, which must now be factored into future utility resource plans.

Manufactured homes are a prime candidate for targeted energy efficiency programs. This is due to their high energy consumption relative to other housing types, the fact that the majority of manufactured home residents are low- and fixed income, and the prevalence of this housing type in the Southeast region. To date the Southeast has few examples of utility energy efficiency programs specifically targeting this housing segment, but that appears to be beginning to change with a shift in Georgia and Mississippi.

Ultimately, energy efficiency is key to accelerating our transition to a clean energy grid, and making electricity affordable for everyone. Efficiency can help to speed up the retirement of polluting and outdated legacy fossil fuel power plants. It can also offset the need to build new power generation, while decreasing our dependence on fossil gas. Additionally, investing in energy efficiency can reduce the cost of new renewable energy investments and help to maintain grid reliability, including during severe weather incidents. With so many benefits, the key to energy efficiency is, quite simply, to just do it.

DATA SOURCES, METHODS, AND ASSUMPTIONS

The primary metric in this report is net energy savings as a percentage of current-year retail sales. SACE relies on two sources for historical efficiency savings, annual energy efficiency reports that utilities are required to file by state regulators and Energy Information Administration Form 861. In most cases, regulatory reporting requirements for investor-owned utilities allow SACE to gather detailed performance and budget data on specific programs on an annual basis. Nearly all of our data for municipal and co-op utilities come from EIA Form 861. In some cases, we opt to use EIA data even when program-level data is available for the sake of consistency when it comes to the reporting year, which may reflect the fiscal year in utility filings or other types of reports, and to include savings from programs that are outside the utility's main portfolio of energy efficiency programs.

EIA's reporting instructions have shifted over the years to direct utilities to report data at the meter rather than at the generator, and to clarify who is responsible for reporting (utility or nonutility demand-side management administrators). As a result, there is greater confidence in the consistency and reliability of more recent data that primarily only requires adjustments to utilities that report gross savings. Due to the fact that some utilities report net savings reflecting technical adjustments to energy efficiency program impacts, while others do not, we apply a net to gross ratio of 83.9% where gross savings are reported.

DSM/EE spending is inclusive of the total expenditures for each program approved or certified by a utility's respective regulator. Our review of data specific to programs may not reflect sub-programs, add-ons, or pilot programs if they are not tracked or reported by the utility. For example, income-qualified spending reflects standalone programs only.

Accumulated energy efficiency demand savings (MW) represents the maximum peak reduction to gross system demand. To capture the "maximum peak" and assign a nominal capacity to efficiency, SACE uses the summer demand reduction reported for programs and measures.

For the comparison with other regions of the country, our Southeast regional average is compared to regional and national averages from data sources such as EIA and research in ACEEE's Annual Energy Efficiency Scorecard. Our regional energy savings calculation differs from typical calculations of the U.S. 'South' region due to different geography of electric utility service areas and data sources included.

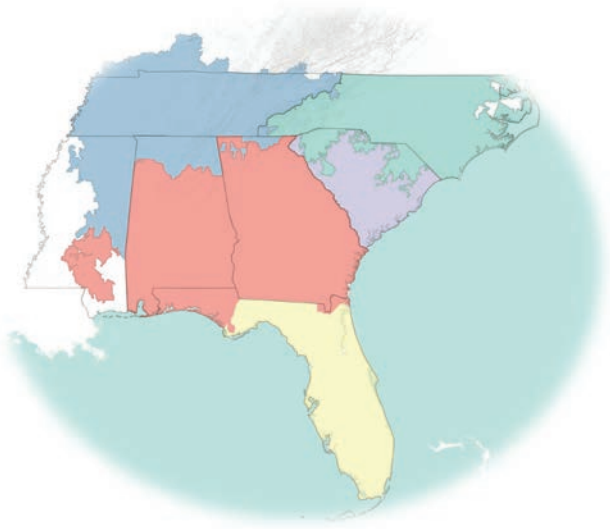
State formula funding allocations from the federal Bipartisan Infrastructure Law and Inflation Reduction Act were sourced from DOE announcements in March 23, 2022 and November 2, 2022, respectively. The comparison to utility energy efficiency program spending over the same ten-year period was developed by carrying forward annual utility spending at 2021 levels reported through Energy Information Administration Form 861.

The number of manufactured homes in Southeastern states was sourced from the 2020 American Community Survey. The age of manufactured homes was sourced from General Housing Data in the 2021 American Housing Survey, using year built and census division. Results for the South were created by aggregating data from the South Atlantic, East South Central, and West South Central Divisions.

APPENDICES

APPENDIX A: GEOGRAPHIC COVERAGE

The geographic coverage of data encompasses Southeastern utilities outside of the PJM/MISO regions. The states of Alabama, Florida, Georgia, and South Carolina are fully covered; relatively small portions of the North Carolina and Tennessee are served by utilities that participate in PJM (thus while statewide reports for these states are relatively comprehensive, they may not align exactly with other data sources); only portions of Mississippi and Kentucky that are parts of TVA or the Southern Planning Area are included.



APPENDIX B: ENERGY EFFICIENCY SAVINGS DATA

Retail sales, annual savings from energy efficiency, and percentage savings as a percentage of current-year retail sales are available for download. Please note that appendices for previous reports in the series reflect slightly different methodology such as a lower net to gross ratio and were calculated using savings as a % of prior-year sales, rather than current-year.

For utility system and individual utility data for 2016-2020, please visit our website to access the appendix.

ADDITIONAL RESOURCES FROM SACE

The Southern Alliance for Clean Energy (SACE) releases annual reports covering clean energy and transportation topics in the Southeast. We invite you to view all of our reports, white papers, and other technical resources and select reports below.

Tracking Decarbonization in the Southeast, *Fourth Annual Report. (2022)*

Solar in the Southeast, *Fifth Annual Report. (2022)*

Transportation Electrification in the Southeast, *Third Annual Report. (2022)*













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May 8, 2024

-VIA ELECTRONIC FILING-

Adam Teitzman
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

RE: Docket 20240000-OT
Florida Power & Light Company 2023 Demand Side Management Annual Report

Dear Mr. Teitzman:

On March 1, 2024, in accordance with Rule 25-17.0021(5), Florida Administrative Code, Florida Power & Light Company ("FPL") filed its 2023 Demand Side Management ("DSM") Annual Report, and on April 29, 2024, FPL filed an Amended DSM Annual Report making several corrections to the March 1, 2024 Report. FPL is filing a Second Amended DSM Annual Report to correct data on page 10 of the Report. For FPL's Business Energy Evaluation Program (page 10), an incorrect cell reference caused incorrect amounts to be presented for Program Participants and Utility Cost Per Installation. Please find attached the corrected page 10 in redline format (Attachment 1), as well as a clean copy of FPL's Second Amended DSM Annual Report (Attachment 2).

If there are any questions regarding this transmittal, please contact me at (561) 304-5662.

Sincerely,

/s/ *William P. Cox*
William P. Cox
Fla. Bar No. 0093531

Enclosure
cc: Michael C. Barrett, Economic Supervisor, mbarrett@psc.state.fl.us

Attachment 1

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 10

Utility: Florida Power & Light Company
Program Name: **Business Energy Evaluation**
Program Start Date: October 1990
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	591,470	591,470	12,000	2%	5,015	5,015	1%	(6,985)
2021	599,138	599,138	24,000	4%	4,751	9,766	2%	(14,234)
2022	665,256	665,256	36,300	5%	5,669	15,435	2%	(20,865)
2023	673,193	673,193	48,600	7%	~~5,108~~ 5,091	~~20,543~~ 20,526	3%	~~(28,057)~~ (28,074)
2024	681,003	681,003	60,900	9%				

Channel	2020	2021	2022	2023	2024
Online	1,230	400	536	804	
Phone	1,321	1,649	2,559	2,079	
On Site	2,464	2,702	2,574	~~2,225~~ 2,208	
Total	**5,015**	**4,751**	**5,669**	**~~5,108~~ 5,091**	

2023	
Utility Cost per Installation	~~$966~~ $969
Total Utility Program Cost ($000)	$4,934
Net Benefits ($000)	N/A

- No kW or kWh savings attributed to this program

[(1)] Cumulative participants before 2020 = 254,164

Attachment 2

FLORIDA POWER & LIGHT COMPANY
2023 DEMAND-SIDE MANAGEMENT
ANNUAL REPORT

March 1, 2024

FLORIDA POWER & LIGHT COMPANY
2023 DEMAND-SIDE MANAGEMENT ANNUAL REPORT

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FLORIDA POWER & LIGHT COMPANY
Comparison of Achieved MW and GWh Savings v. Commission Goals Established November 26, 2019
Reporting Period: 2023

Residential and Business Combined (@ Generator)*

	Summer Peak MW Savings			Winter Peak MW Savings			GWh Energy Savings		
Year	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance
2020	62.75	60.60	4%	41.22	36.80	12%	55.62	63.00	-12%
2021	57.36	62.30	-8%	35.01	37.90	-8%	43.60	66.10	-34%
2022	49.74	63.70	-22%	29.94	39.00	-23%	53.32	69.40	-23%
2023	63.32	65.30	-3%	43.10	40.10	7%	83.92	72.60	16%
2024		66.90			41.10			75.90	

Residential (@ Generator)*

	Summer Peak MW Savings			Winter Peak MW Savings			GWh Energy Savings		
Year	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance
2020	21.63	33.60	-36%	12.60	20.50	-39%	22.79	31.80	-28%
2021	19.36	34.80	-44%	12.53	21.20	-41%	25.76	33.30	-23%
2022	24.17	35.70	-32%	16.44	21.80	-25%	36.46	34.80	5%
2023	22.82	36.80	-38%	17.58	22.50	-22%	33.97	36.30	-6%
2024		37.80			23.10			37.80	

Business (@ Generator)*

	Summer Peak MW Savings			Winter Peak MW Savings			GWh Energy Savings		
Year	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance
2020	41.12	27.00	52%	28.62	16.30	76%	32.83	31.20	5%
2021	37.99	27.50	38%	22.49	16.70	35%	17.84	32.80	-46%
2022	25.56	28.00	-9%	13.50	17.20	-22%	16.87	34.60	-51%
2023	40.50	28.50	42%	25.52	17.60	45%	49.95	36.30	38%
2024		29.10			18.00			38.10	

*** Combined preconsolidated FPL and Gulf Power goals and results through 2021**

FLORIDA POWER & LIGHT COMPANY PRE-CONSOLIDATED

Comparison of Achieved MW and GWh Savings v. Commission Goals Established November 26, 2019
Reporting Period: 2023

Residential and Business Combined (@ Generator)

	Summer Peak MW Savings			Winter Peak MW Savings			GWh Energy Savings		
Year	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance
2020	60.16	53.10	13%	40.08	32.80	22%	51.29	53.70	-4%
2021	55.99	53.90	4%	33.87	33.40	1%	39.58	55.80	-29%
2022		54.70			34.10			58.10	
2023		55.50			34.80			60.50	
2024		56.50			35.50			63.00	

Residential (@ Generator)

	Summer Peak MW Savings			Winter Peak MW Savings			GWh Energy Savings		
Year	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance
2020	19.99	26.90	-26%	11.46	16.70	-31%	20.62	25.00	-18%
2021	18.04	27.30	-34%	11.41	16.90	-32%	21.87	25.70	-15%
2022		27.60			17.20			26.50	
2023		28.00			17.50			27.40	
2024		28.50			17.80			28.30	

Business (@ Generator)

	Summer Peak MW Savings			Winter Peak MW Savings			GWh Energy Savings		
Year	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance
2020	40.16	26.20	53%	28.62	16.10	78%	30.67	28.70	7%
2021	37.96	26.60	43%	22.45	16.50	36%	17.71	30.10	-41%
2022		27.10			16.90			31.60	
2023		27.50			17.30			33.10	
2024		28.00			17.70			34.70	

GULF POWER COMPANY PRE-CONSOLIDATED

Comparison of Achieved MW and GWh Savings v. Commission Goals Established November 26, 2019
Reporting Period: 2023

Residential and Business Combined (@ Generator)

	Summer Peak MW Savings			Winter Peak MW Savings			GWh Energy Savings		
Year	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance
2020	2.59	7.50	-65%	1.14	4.00	-71%	4.33	9.30	-53%
2021	1.36	8.40	-84%	1.15	4.50	-75%	4.01	10.30	-61%
2022		9.00			4.90			11.30	
2023		9.80			5.30			12.10	
2024		10.40			5.60			12.90	

Residential (@ Generator)

	Summer Peak MW Savings			Winter Peak MW Savings			GWh Energy Savings		
Year	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance
2020	1.64	6.70	-76%	1.14	3.80	-70%	2.17	6.80	-68%
2021	1.33	7.50	-82%	1.11	4.30	-74%	3.89	7.60	-49%
2022		8.10			4.60			8.30	
2023		8.80			5.00			8.90	
2024		9.30			5.30			9.50	

Business (@ Generator)

	Summer Peak MW Savings			Winter Peak MW Savings			GWh Energy Savings		
Year	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance
2020	0.95	0.80	19%	0.00	0.20	-100%	2.16	2.50	-14%
2021	0.04	0.90	-96%	0.04	0.20	-82%	0.13	2.70	-95%
2022		0.90			0.30			3.00	
2023		1.00			0.30			3.20	
2024		1.10			0.30			3.40	

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 4

Utility: Florida Power & Light Company
Program Name: **Residential Home Energy Survey**
Program Start Date: January 1981
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	4,522,372	4,522,372	100,000	2%	103,647	103,647	2%	3,647
2021	4,574,840	4,574,840	200,000	4%	84,878	188,525	4%	(11,475)
2022	5,050,726	5,050,726	310,000	6%	82,631	271,156	5%	(38,844)
2023	5,108,019	5,108,019	420,000	8%	87,050	358,206	7%	(61,794)
2024	5,165,418	5,165,418	530,000	10%				

Channel	2020	2021	2022	2023	2024
Online	80,940	65,236	53,446	57,840	
Phone	18,921	11,016	15,361	13,274	
In-Home	3,786	8,626	13,824	15,936	
Total	**103,647**	**84,878**	**82,631**	**87,050**	

2023	
Utility Cost per Installation	$184
Total Utility Program Cost ($000)	$15,975
Net Benefits ($000)	N/A

- No kW or kWh savings attributed to this program

[(1)] Cumulative participants before 2020 = 4,098,353

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 5

Utility: Florida Power & Light Company
Program Name: **Residential Load Management (On Call®)**
Program Start Date: July 1986
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	4,522,372	3,818,771	5,950	0%	4,674	4,674	0%	(1,276)
2021	4,574,840	3,871,239	11,925	0%	3,002	7,676	0%	(4,249)
2022	5,050,726	3,925,757	20,050	1%	3,300	10,976	0%	(9,074)
2023	5,108,019	3,971,801	28,425	1%	3,406	14,382	0%	(14,043)
2024	5,165,418	4,025,866	36,925	1%				

	Per Installation		Program Total	
2023	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Savings	2.67	2.84	9,085	9,676
Winter kW Savings	2.49	2.65	8,474	9,024
kWh Savings	0.87	0.92	2,971	3,122

2023	
Utility Cost per Installation [2]	$57
Total Utility Program Cost ($000) [3]	$37,462
Net Benefits ($000)	($155)

[1] Cumulative participants before 2020 = 703,601

[2] Based on cumulative active participants at year-end = 652,942

[3] Includes depreciation, return & incentives paid in 2023 to active participants who signed up in 2023 & prior years

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 6

Utility: Florida Power & Light Company
Program Name: **Residential Air Conditioning**
Program Start Date: October 1990
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	4,522,372	1,183,454	22,000	2%	20,399	20,399	2%	(1,601)
2021	4,574,840	1,273,527	44,100	3%	18,477	38,876	3%	(5,224)
2022	5,050,726	1,765,181	72,350	4%	23,885	62,761	4%	(9,589)
2023	5,108,019	1,859,084	100,950	5%	18,403	81,164	4%	(19,786)
2024	5,165,418	1,952,865	130,225	7%				

	Per Installation		Program Total	
2023	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Savings	0.20	0.22	3,737	3,980
Winter kW Savings	0.04	0.05	791	842
kWh Savings	424	446	7,803,551	8,199,971

2023	
Utility Cost per Installation	$201
Total Utility Program Cost ($000)	$3,697
Net Benefits ($000)	($1,460)

[(1)] Cumulative participants before 2020 = 1,970,212

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 7

Utility: Florida Power & Light Company
Program Name: **Residential New Construction (BuildSmart®)**
Program Start Date: February 1996
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	4,522,372	41,778	3,500	8%	3,686	3,686	9%	186
2021	4,574,840	44,010	7,025	8%	4,036	7,722	9%	697
2022	5,050,726	49,545	11,575	9%	5,231	12,953	10%	1,378
2023	5,108,019	50,383	16,150	9%	3,841	16,794	9%	644
2024	5,165,418	51,142	20,750	9%				

	Per Installation		Program Total	
2023	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Savings	0.33	0.35	1,275	1,358
Winter kW Savings	0.12	0.13	456	485
kWh Savings	980	1,030	3,763,771	3,954,971

2023	
Utility Cost per Installation	$109
Total Utility Program Cost ($000)	$420
Net Benefits ($000)	($425)

[(1)] Cumulative participants before 2020 = 51,026

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 8

Utility: Florida Power & Light Company
Program Name: **Residential Ceiling Insulation**
Program Start Date: October 1981
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	4,522,372	1,235,964	3,850	0%	1,444	1,444	0%	(2,406)
2021	4,574,840	1,232,114	8,000	1%	1,503	2,947	0%	(5,053)
2022	5,050,726	1,646,944	13,150	1%	1,687	4,634	0%	(8,516)
2023	5,108,019	1,644,918	18,300	1%	2,952	7,586	0%	(10,714)
2024	5,165,418	1,642,677	23,450	1%				

	Per Installation		Program Total	
2023	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Savings	0.70	0.75	2,066	2,200
Winter kW Savings	1.64	1.74	4,835	5,150
kWh Savings	1,918	2,015	5,661,936	5,949,562

2023	
Utility Cost per Installation	$347
Total Utility Program Cost ($000)	$1,025
Net Benefits ($000)	($333)

[(1)] Cumulative participants before 2020 = 582,758

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 9

Utility: Florida Power & Light Company
Program Name: **Residential Low Income**
Program Start Date: March 2005
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	4,522,372	886,993	5,250	1%	3,137	3,137	0%	(2,113)
2021	4,574,840	892,237	11,000	1%	8,502	11,639	1%	639
2022	5,050,726	1,039,019	20,550	2%	11,054	22,693	2%	2,143
2023	5,108,019	1,041,396	31,250	3%	11,254	33,947	3%	2,697
2024	5,165,418	1,048,638	43,550	4%				

	Per Installation		Program Total	
2023	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Savings	0.47	0.50	5,267	5,609
Winter kW Savings	0.17	0.18	1,952	2,079
kWh Savings	1,341	1,409	15,093,375	15,860,119

2023	
Utility Cost per Installation	$279
Total Utility Program Cost ($000)	$3,141
Net Benefits ($000)	($2,179)

[(1)] Cumulative participants before 2020 = 17,482

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 10

Utility: Florida Power & Light Company
Program Name: **Business Energy Evaluation**
Program Start Date: October 1990
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	591,470	591,470	12,000	2%	5,015	5,015	1%	(6,985)
2021	599,138	599,138	24,000	4%	4,751	9,766	2%	(14,234)
2022	665,256	665,256	36,300	5%	5,669	15,435	2%	(20,865)
2023	673,193	673,193	48,600	7%	5,091	20,526	3%	(28,074)
2024	681,003	681,003	60,900	9%				

Channel	2020	2021	2022	2023	2024
Online	1,230	400	536	804	
Phone	1,321	1,649	2,559	2,079	
On Site	2,464	2,702	2,574	2,208	
Total	**5,015**	**4,751**	**5,669**	**5,091**	

2023	
Utility Cost per Installation	$969
Total Utility Program Cost ($000)	$4,934
Net Benefits ($000)	N/A

- No kW or kWh savings attributed to this program

[(1)] Cumulative participants before 2020 = 254,164

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 11

Utility: Florida Power & Light Company
Program Name: **Business On Call®**
Program Start Date: June 1995
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	8,651,163	510,164	1,100	0%	525	525	0%	(575)
2021	8,733,000	513,890	2,000	0%	282	806	0%	(1,194)
2022	9,542,169	517,390	2,750	1%	990	1,796	0%	(954)
2023	9,615,355	520,719	3,250	1%	764	2,560	0%	(690)
2024	9,688,055	524,267	3,650	1%				

	Per Installation		Program Total	
2023	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Savings	1.00	1.07	764	813
Winter kW Savings	0.00	0.00	0	0
kWh Savings	1	1	771	811

2023	
Utility Cost per Installation [2]	$44
Total Utility Program Cost ($000) [3]	$2,948
Net Benefits ($000)	($31)

[1] Cumulative participants (MW) before 2020 = 76.4

[2] Based on cumulative active participants (MW) at year-end = 66.6

[3] Includes depreciation, return & incentives paid in 2023 to active participants who signed up in 2023 & prior years

Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 12

Utility: Florida Power & Light Company
Program Name: **Commercial/Industrial Demand Reduction**
Program Start Date: May 2000
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	8,651,163	4,919,014	9,150	0%	24,294	24,294	0%	15,144
2021	8,733,000	4,956,396	18,550	0%	26,012	50,306	1%	31,756
2022	9,542,169	5,712,114	28,250	0%	12,476	62,782	1%	34,532
2023	9,615,355	5,744,642	37,850	1%	26,476	89,258	2%	51,408
2024	9,688,055	5,776,784	47,450	1%				

	Per Installation		Program Total	
2023	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Savings	1.00	1.07	26,476	28,197
Winter kW Savings	0.64	0.68	17,027	18,133
kWh Savings	11	11	289,648	304,362

2023	
Utility Cost per Installation [2]	$80
Total Utility Program Cost ($000) [3]	$33,338
Net Benefits ($000)	($667)

[1] Cumulative participants (MW) before 2020 = 327.4

[2] Based on cumulative active participants (MW) at year-end = 414.2

[3] Includes incentives paid in 2023 to active participants who signed up in 2023 & prior years

Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 13

Utility: Florida Power & Light Company
Program Name: **Business Heating, Ventilating & Air Conditioning**
Program Start Date: February 1990
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	8,651,163	1,354,483	10,670	1%	9,272	9,272	1%	(1,398)
2021	8,733,000	1,356,626	21,430	2%	7,271	16,542	1%	(4,888)
2022	9,542,169	2,091,034	32,800	2%	8,444	24,986	1%	(7,814)
2023	9,615,355	2,093,996	44,700	2%	4,800	29,786	1%	(14,914)
2024	9,688,055	2,096,178	56,920	3%				

	Per Installation		Program Total	
2023	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Savings	1.00	1.07	4,800	5,112
Winter kW Savings	0.65	0.69	3,112	3,315
kWh Savings	3,621	3,805	17,377,713	18,260,501

2023	
Utility Cost per Installation	$441
Total Utility Program Cost ($000)	$2,118
Net Benefits ($000)	($925)

[(1)] Cumulative participants (MW) before 2020 = 426.1
Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 14

Utility: Florida Power & Light Company
Program Name: **Business Lighting**
Program Start Date: June 1984
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	8,651,163	632,148	3,750	1%	3,729	3,729	1%	(21)
2021	8,733,000	634,378	7,750	1%	2,102	5,832	1%	(1,918)
2022	9,542,169	635,810	12,290	2%	2,012	7,843	1%	(4,447)
2023	9,615,355	636,573	17,075	3%	5,990	13,833	2%	(3,242)
2024	9,688,055	637,021	22,160	3%				

	Per Installation		Program Total	
2023	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Savings	1.00	1.07	5,990	6,380
Winter kW Savings	0.64	0.68	3,822	4,070
kWh Savings	4,986	5,239	29,866,954	31,384,195

2023	
Utility Cost per Installation	$102
Total Utility Program Cost ($000)	$608
Net Benefits ($000)	($2,125)

[(1)] Cumulative participants (MW) before 2020 = 310.6
Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 15

Utility: Florida Power & Light Company
Program Name: **Business Custom Incentive**
Program Start Date: April 1993
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	8,651,163	414,312	100	0%	60	60	0%	(40)
2021	8,733,000	418,131	200	0%	0	60	0%	(140)
2022	9,542,169	1,156,003	300	0%	0	60	0%	(240)
2023	9,615,355	1,162,972	400	0%	0	60	0%	(340)
2024	9,688,055	1,169,866	500	0%				

	Per Installation		Program Total	
2023	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Savings	0.0	0.0	0.0	0.0
Winter kW Savings	0.0	0.0	0.0	0.0
kWh Savings	0.0	0.0	0.0	0.0

2023	
Utility Cost per Installation	$0
Total Utility Program Cost ($000)	$0
Net Benefits ($000)	N/A

- No 2023 program participation

[(1)] Cumulative participants (MW) before 2020 = 54.8

Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 16

Utility: Gulf Power Company (Pre-Consolidated)
Program Name: **Residential Home Energy Survey (Discontinued)**
Program Start Date: January 1981
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	415,321	415,321	10,000	2%	12,005	12,005	3%	2,005
2021	419,169	419,169	20,000	5%	11,734	23,739	6%	3,739
2022								
2023								
2024								

Channel	2020	2021	2022	2023	2024
Online	11,764	10,929			
Phone	106	554			
In-Home	135	251			
Total	**12,005**	**11,734**			

[(1)] Cumulative participants before 2020 = 269,488

Utility: Gulf Power Company (Pre-Consolidated)
Program Name: **Energy Select (Discontinued)**
Program Start Date: 1995
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	415,321	379,234	2,033	1%	648	648	0%	(1,385)
2021	419,169	382,039	4,291	1%	397	1,045	0%	(3,246)
2022								
2023								
2024								

[(1)] Cumulative participants before 2020 = 20,098

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 18

Utility: Gulf Power Company (Pre-Consolidated)
Program Name: **Residential Low Income (Community Energy Saver Program) (Discontinued)**
Program Start Date: March 2010
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	415,321	144,733	3,750	3%	1,436	1,436	1%	(2,314)
2021	419,169	142,330	7,500	5%	3,795	5,231	4%	(2,269)
2022								
2023								
2024								

(1) Cumulative participants before 2020 = 23,274

Utility: Gulf Power Company (Pre-Consolidated)
Program Name: **Residential HVAC (Discontinued)**
Program Start Date: November 2020
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	415,321	413,524	1,200	0%	0	0	0%	(1,200)
2021	419,169	416,172	2,550	1%	349	349	0%	(2,201)
2022								
2023								
2024								

[(1)] Cumulative participants before 2020 = 0

Utility: Gulf Power Company (Pre-Consolidated)
Program Name: **Residential Ceiling Insulation (Discontinued)**
Program Start Date: November 2020
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	415,321	413,524	800	0%	0	0	0%	(800)
2021	419,169	416,572	1,700	0%	33	33	0%	(1,667)
2022								
2023								
2024								

[(1)] Cumulative participants before 2020 = 0

Utility: Gulf Power Company (Pre-Consolidated)
Program Name: **Residential High Efficiency Pool Pump (Discontinued)**
Program Start Date: November 2020
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	415,321	78,570	1,150	1%	0	0	0%	(1,150)
2021	419,169	78,151	2,475	3%	129	129	0%	(2,346)
2022								
2023								
2024								

[(1)] Cumulative participants before 2020 = 0

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 22

Utility: Gulf Power Company (Pre-Consolidated)
Program Name: **Business Energy Survey (Discontinued)**
Program Start Date: 1981
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	57,696	57,696	300	1%	23	23	0%	(277)
2021	58,060	58,060	600	1%	144	167	0%	(433)
2022								
2023								
2024								

Channel	2020	2021	2022	2023	2024
Online	6	67			
Phone	N/A	22			
On Site	17	55			
Total	**23**	**144**			

(1) Cumulative participants before 2020 = 23,411

Utility: Gulf Power Company (Pre-Consolidated)
Program Name: **Business HVAC (Discontinued)**
Program Start Date: November 2020
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	725,802	725,802	400	0.1%	0	0	0%	(400)
2021	730,375	729,975	840	0.1%	34	34	0%	(806)
2022								
2023								
2024								

[(1)] Cumulative participants (MW) before 2020 = 0
Note: One Customer, Participant or Installation equals one Summer KW

Utility: Gulf Power Company (Pre-Consolidated)
Program Name: **Curtailable Load Rider (Discontinued)**
Program Start Date: 2018
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	725,802	715,902	864	0.1%	0	0	0%	(864)
2021	730,375	719,611	1,813	0.3%	0	0	0%	(1,813)
2022								
2023								
2024								

[(1)] Cumulative participants (MW) before 2020 = 9.9
Note: One Customer, Participant or Installation equals one Summer KW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 25

Utility: Gulf Power Company (Pre-Consolidated)
Program Name: **Business Custom Incentive (Discontinued)**
Program Start Date: 2000
Reporting Period: 2023

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2020	725,802	725,802	0	0%	0	0	0%	0
2021	730,375	730,375	0	0%	0	0	0%	0
2022								
2023								
2024								

[(1)] Cumulative participants (MW) before 2020 = 1.15
Note: One Customer, Participant or Installation equals one Summer KW

OTHER CONSERVATION ACTIVITIES

FPL Conservation Research & Development ("CRD")

CRD is an umbrella program under which FPL researches a wide variety of new technologies and market strategies to evaluate their potential for reductions in peak demand and energy consumption as well as customer bill savings. Favorable research results of these new technologies can lead to incorporation into FPL's DSM programs. Examples of technologies that have been included are Energy Recovery Ventilators; Demand Control Ventilation; and Residential Air Conditioning Duct Plenum Seal.

FPL focused on three major research projects in 2023, including a Smart Panel Pilot to test new end-use control technology for residential customers; a retro-commissioning project to unmask conservation measures otherwise hidden by larger load profiles in a commercial building; and a low-income project to install and test customer acceptance and usage patterns for various energy efficient end-use technologies.

As part of a smart panel pilot approved in Docket 20210015-EI, FPL is installing smart panels in customer homes. To date, 100 smart panels have been installed in customer homes. This pilot is intended to evaluate the capabilities of smart panels to enable greater customer energy efficiency through real-time visibility and control of large appliances, better optimization of on-site distributed energy resources (DERs), and flexible load management on the FPL grid. FPL also enhanced an internal software monitoring and control platform to utilize throughout the pilot for evaluating the capabilities of the panels for demand response. FPL will continue this pilot through 2024.

FPL also continued a retro-commissioning study in the Northwest portion of the service territory. A large, multi-building church was selected to take part in the research. A local engineering firm specializing in retro-commissioning was selected to conduct the study. A preliminary site assessment has been conducted, and a baseline energy profile is presently being developed. The church campus has multiple building types and uses that facilitate the application of the results to other buildings in the region. The church is also a willing participant in support of educational activities that may be spawned from this work to build science programs in the Panhandle. This cooperation also compliments FPL initiatives to expand energy collaboratives in the community.

In 2023, FPL also initiated a deep retrofit pilot for income qualified customers in the Pensacola area of FPL's service territory. The purpose of this pilot is to understand the impact deep retrofit measures have on customer energy use. 25 customers were selected to receive energy efficient appliances, capital improvements, and other energy conservation measures at no additional cost to the customer. Installation of all three measures was completed in the summer of 2023. The energy use of this group will be tracked for 12 months. The data will be weather normalized to measure the impact on customers' energy usage and bills and to evaluate which mix of measures have the most impact.

Measures included in the evaluation are:

- Heat Pump AC systems
- Heat Pump Water Heaters
- Duct Sealing and Repair
- Ceiling insulation to R-38 Value
- Smart Thermostat

FPL Cogeneration & Small Power Production

The objective of this program is to facilitate cogeneration and small power production facilities. In 2023, there were purchases from 15 facilities, which produced summer capacity of 264 MW, winter capacity of 263 MW, and 1,047 GWh.

2023 Goals Results Summary and Variance Explanations

Residential and Commercial/Industrial Combined

Summer MW	3%	Below Goal
Winter MW	7%	Above Goal
Annual GWh	16%	Above Goal

Variance Explanation:
On a combined basis, FPL exceeded the Winter MW and Annual GWh goals, but were slightly below the Summer MW goal (though by less than the Commission's 15% threshold). FPL continues to strive to achieve the overall Commission goals for demand and energy reductions even when one sector or the other is below target. Overachievements in the Commercial/Industrial CDR and Business Lighting programs helped FPL exceed the combined goals for Winter MW and Annual GWh.

Residential Goals:

Summer MW	38%	Below Goal
Winter MW	22%	Below Goal
Annual GWh	6%	Below Goal

Variance Explanation:
The primary contributors to FPL falling below the Summer MW, Winter MW, and Annual GWh goals were the Residential On Call and HVAC programs. The On Call program did not gain the number of participants necessary to achieve the Summer and Winter KW goals. In addition, the per installation kW and kWh savings for the Residential HVAC program were reduced due to new Federal Efficiency Standards that became effective January 1, 2023.

Commercial/Industrial Goals:

Summer MW	42%	Above Goal
Winter MW	45%	Above Goal
Annual GWh	38%	Above Goal

Stephanie A. Cuello
SENIOR COUNSEL

March 1, 2024

VIA ELECTRONIC FILING

Adam J. Teitzman, Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: *Demand Side Management Annual Report for Calendar Year 2023*; Undocketed

Dear Mr. Teitzman:

In accordance with Rule 25-17.0021(5), F.A.C., please find attached for filing Duke Energy Florida, LLC's (DEF) Demand Side Management Annual Report for calendar year 2023.

Thank you for your assistance in this matter. Please feel free to call me at (850) 521-1425 should you have any questions concerning this filing.

Sincerely,

/s/ Stephanie A. Cuello

Stephanie A. Cuello

SAC/clg
Attachments

cc: Michael Barrett, FPSC, Division of Economics, MBarrett@PSC.STATE.FL.US

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DUKE ENERGY FLORIDA, LLC (DEF)
SUMMARY OF 2023 DEMAND SIDE MANAGEMENT ACHIEVEMENTS

The Commission Approved Goals for 2020-2024 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-2019-0509-EG. The Total Achievements represent the actual MW and GWH savings resulting from DEF's Commission approved demand side management (DSM) programs.

In 2023, DEF's DSM programs performed well and delivered energy and demand savings that exceeded the Commission approved winter MW, summer MW and GWH goals for the residential and commercial sector on an overall combined basis.

For the residential sector, DEF performed 36,915 home energy audits in 2023. DEF provided incentives to residential customers for 11,878 energy efficiency measures. These measures are expected to provide significant savings to customers as they all target heating and cooling end uses. Our low-income customers were served through our Neighborhood Energy Saver Program and Low-Income Weatherization Program with approximately 6,030 homes participating. DEF also added approximately 2,916 residential customers to its Residential Load Management program. These customers will benefit from ongoing bill credits. In addition, approximately 433,000 customers participated in the Residential Load Management program during 2023, contributing about 638 MW of winter peak-shaving capacity and 352 of MW of summer peak-shaving capacity for use during high load periods.

	Audit Type			
	Walk-Through, BERS, and Computer Assisted	Online	Phone	Total
Residential	10,033	23,985	2,897	36,915
Non Residential	441	0	38	479

For the commercial sector, DEF performed 479 commercial energy audits, providing incentives to commercial customers through its commercial business programs.

Additionally, DEF plans to continue to effectively promote its energy conservation programs and educate customers about energy efficiency. DEF, in partnership with local universities and industry alliances, continues to utilize the Technology Development Program to test and evaluate the potential for new and emerging technologies to support future program offerings to customers. Through the Technology Development Program, DEF continues its Vehicle to Grid Ford Lighting EV technology study to test opportunities with EV batteries and bidirectional (two-way) energy flow on the grid.

DUKE ENERGY FLORIDA
2023
COMPARISON OF CUMULATIVE ACHIEVED MW & GWH REDUCTIONS at the Generator
PUBLIC SERVICE COMMISSION ESTABLISHED GOALS ORDER PSC-2020-0274-PAA-EG

RESIDENTIAL

	WINTER PEAK MW REDUCTION COMMISSION			SUMMER PEAK MW REDUCTION COMMISSION			GWH ENERGY REDUCTION COMMISSION		
YEAR	TOTAL ACHIEVED**	APPROVED GOAL*	% VARIANCE	TOTAL ACHIEVED**	APPROVED GOAL*	% VARIANCE	TOTAL ACHIEVED**	APPROVED GOAL*	% VARIANCE
2020	31	32	-5%	18	16	13%	35	9	277%
2021	47	60	-22%	28	29	-5%	60	15	288%
2022	71	85	-16%	43	41	5%	109	19	467%
2023	101	107	-5%	63	53	19%	159	21	646%
2024		128			63			23	

COMMERCIAL / INDUSTRIAL

	WINTER PEAK MW REDUCTION COMMISSION			SUMMER PEAK MW REDUCTION COMMISSION			GWH ENERGY REDUCTION COMMISSION		
YEAR	TOTAL ACHIEVED**	APPROVED GOAL*	% VARIANCE	TOTAL ACHIEVED**	APPROVED GOAL*	% VARIANCE	TOTAL ACHIEVED**	APPROVED GOAL*	% VARIANCE
2020	24	5	354%	46	8	460%	40	6	582%
2021	34	10	244%	70	15	363%	62	10	531%
2022	39	15	166%	75	21	255%	65	12	432%
2023	69	20	253%	102	27	280%	75	14	454%
2024		24			32			14	

TOTAL

	WINTER PEAK MW REDUCTION COMMISSION			SUMMER PEAK MW REDUCTION COMMISSION			GWH ENERGY REDUCTION COMMISSION		
YEAR	TOTAL ACHIEVED**	APPROVED GOAL*	% VARIANCE	TOTAL ACHIEVED**	APPROVED GOAL*	% VARIANCE	TOTAL ACHIEVED**	APPROVED GOAL*	% VARIANCE
2020	54	37	45%	64	24	168%	75	15	395%
2021	81	70	16%	98	44	120%	122	25	382%
2022	110	99	11%	118	63	89%	174	31	453%
2023	171	126	35%	164	79	107%	234	35	571%
2024		152			95			37	

*2020-2024 Goals are based on ORDER NO. PSC-2020-0274-PAA-EG, issued August 3, 2020
**Figures are rounded to the nearest whole number and are at the Generator

DUKE ENERGY FLORIDA
2023
COMPARISON OF ANNUAL ACHIEVED MW & GWH REDUCTIONS at the Generator
WITH PUBLIC SERVICE COMMISSION ESTABLISHED ANNUAL GOALS*

RESIDENTIAL

YEAR	WINTER PEAK MW REDUCTION TOTAL ACHIEVED**	WINTER PEAK MW REDUCTION COMMISSION APPROVED GOAL*	WINTER PEAK MW REDUCTION % VARIANCE	SUMMER PEAK MW REDUCTION TOTAL ACHIEVED**	SUMMER PEAK MW REDUCTION COMMISSION APPROVED GOAL*	SUMMER PEAK MW REDUCTION % VARIANCE	GWH ENERGY REDUCTION TOTAL ACHIEVED**	GWH ENERGY REDUCTION COMMISSION APPROVED GOAL*	GWH ENERGY REDUCTION % VARIANCE
2020	31	32	-5%	18	16	13%	35	9	277%
2021	16	28	-42%	10	14	-26%	25	6	305%
2022	25	25	0%	16	12	29%	49	4	1203%
2023	30	22	36%	19	11	70%	50	2	2244%
2024		21			11			1	

COMMERCIAL / INDUSTRIAL

YEAR	WINTER PEAK MW REDUCTION TOTAL ACHIEVED**	WINTER PEAK MW REDUCTION COMMISSION APPROVED GOAL*	WINTER PEAK MW REDUCTION % VARIANCE	SUMMER PEAK MW REDUCTION TOTAL ACHIEVED**	SUMMER PEAK MW REDUCTION COMMISSION APPROVED GOAL*	SUMMER PEAK MW REDUCTION % VARIANCE	GWH ENERGY REDUCTION TOTAL ACHIEVED**	GWH ENERGY REDUCTION COMMISSION APPROVED GOAL*	GWH ENERGY REDUCTION % VARIANCE
2020	24	5	354%	46	8	460%	40	6	582%
2021	11	5	124%	24	7	248%	22	4	454%
2022	5	5	1%	5	6	-17%	3	2	25%
2023	30	5	510%	27	6	377%	10	1	654%
2024		5			5			1	

TOTAL

YEAR	WINTER PEAK MW REDUCTION TOTAL ACHIEVED**	WINTER PEAK MW REDUCTION COMMISSION APPROVED GOAL*	WINTER PEAK MW REDUCTION % VARIANCE	SUMMER PEAK MW REDUCTION TOTAL ACHIEVED**	SUMMER PEAK MW REDUCTION COMMISSION APPROVED GOAL*	SUMMER PEAK MW REDUCTION % VARIANCE	GWH ENERGY REDUCTION TOTAL ACHIEVED**	GWH ENERGY REDUCTION COMMISSION APPROVED GOAL*	GWH ENERGY REDUCTION % VARIANCE
2020	54	37	45%	64	24	168%	75	15	395%
2021	27	33	-18%	34	21	65%	47	10	363%
2022	29	29	0%	21	18	14%	52	6	743%
2023	60	27	122%	46	17	172%	61	4	1631%
2024		25			16			2	

*2020-2024 Goals are based on ORDER NO. PSC-2020-0274-PAA-EG, issued August 3, 2020
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, modifications approved in 2021
Reporting Period: 2023

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)
2020	1,647,440	1,647,440	25,000	1.52%	31,560	31,560	1.92%	6,560
2021	1,673,995	1,648,995	50,000	3.03%	21,732	53,292	3.23%	3,292
2022	1,700,215	1,675,215	75,000	4.48%	37,725	91,017	5.43%	16,017
2023	1,726,425	1,701,425	100,000	5.88%	36,915	127,932	7.52%	27,932
2024	1,752,362	1,727,362	125,000	7.24%				

cols b,c,d,e are based on DEF's 2020 Program Plan approved by the Commission in Docket 20200054-EG

Annual Demand & Energy Savings (during the reporting period)	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Winter kW Reduction	0.23	0.24	8,576	9,027
Summer kW Reduction	0.14	0.15	5,198	5,472
Annual kWh Reduction	611.88	644.03	22,587,714	23,774,374

Utility Cost per Installation:	$134
Total Program Cost of the Utility ($000):	$4,932
Net Benefits of Measures Installed During Reporting Period ($000):	N/A

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
Program Name: Residential Incentive Program (f/k/a Home Energy Improvement)
Program Start Date: 1996 with modifications approved in 2006, 2015, and 2020
Reporting Period: 2023

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)
2020	1,647,440	1,647,440	17,350	1.05%	19,200	19,200	1.17%	1,850
2021	1,673,995	1,673,995	33,283	1.99%	15,140	34,340	2.05%	1,058
2022	1,700,215	1,700,215	48,418	2.85%	10,318	44,658	2.63%	-3,760
2023	1,726,425	1,726,425	62,797	3.64%	11,878	56,536	3.27%	-6,261
2024	1,752,362	1,752,362	76,458	4.36%				

cols b,c,d,e are based on DEF's 2020 Program Plan approved by the Commission in Docket 20200054-EG

Annual Demand & Energy Savings (during the reporting period)	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Winter kW Reduction	0.42	0.44	4,931	5,190
Summer kW Reduction	0.23	0.24	2,714	2,856
Annual kWh Reduction	617.52	649.96	7,334,861	7,720,202

Utility Cost per Installation:	$328
Total Program Cost of the Utility ($000):	$3,890
Net Benefits of Measures Installed During Reporting Period ($000):	-$899

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, 2017 & 2018
Reporting Period: 2023

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)
2020	1,647,440	443,161	244	0.06%	139	139	0.03%	-105
2021	1,673,995	450,305	488	0.11%	133	272	0.06%	-216
2022	1,700,215	457,358	745	0.16%	134	406	0.09%	-339
2023	1,726,425	464,408	1,001	0.22%	184	590	0.13%	-411
2024	1,752,362	471,385	1,257	0.27%				

cols b,c,d,e are based on DEF's 2020 Program Plan approved by the Commission in Docket 20200054-EG

Annual Demand & Energy Savings (during the reporting period)	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Winter kW Reduction	1.12	1.18	206	217
Summer kW Reduction	0.74	0.78	137	144
Annual kWh Reduction	2,091.96	2,201.86	384,920	405,142

Utility Cost per Installation:	$1,423
Total Program Cost of the Utility ($000):	$262
Net Benefits of Measures Installed During Reporting Period ($000):	-$230

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
Program Name: Neighborhood Energy Saver
Program Start Date: 2007 with modifications approved in 2015, 2018, 2020 and 2021
Reporting Period: 2023

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)
2020	1,647,440	443,161	5,000	1.13%	950	950	0.21%	-4,050
2021	1,673,995	450,305	10,000	2.22%	537	1,487	0.33%	-8,513
2022	1,700,215	457,358	15,250	3.33%	4,771	6,258	1.37%	-8,992
2023	1,726,425	464,408	20,500	4.41%	5,846	12,104	2.61%	-8,396
2024	1,752,362	471,385	25,750	5.46%				

cols b,c,d,e are based on DEF's 2020 Program Plan approved by the Commission in Docket 20200054-EG

Annual Demand & Energy Savings (during the reporting period)	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Winter kW Reduction	1.62	1.70	9,455	9,952
Summer kW Reduction	1.08	1.14	6,317	6,648
Annual kWh Reduction	3,006.56	3,164.51	17,576,337	18,499,721

Utility Cost per Installation:	$1,134
Total Program Cost of the Utility ($000):	$6,627
Net Benefits of Measures Installed During Reporting Period ($000):	-$6,150

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
Program Name: Residential Load Management (a/k/a Residential Energy Management, Energy-Wise)
Program Start Date: January 1981, revision approved May 2000, 2nd revision approved 2006, 3rd revision approved 2015
Reporting Period: 2023

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)
2020	1,647,440	1,208,538	2,500	0.21%	2,735	2,735	0.23%	235
2021	1,673,995	1,232,593	5,000	0.41%	1,604	4,339	0.35%	-661
2022	1,700,215	1,256,313	7,500	0.60%	767	5,106	0.41%	-2,394
2023	1,726,425	1,280,023	10,000	0.78%	2,916	8,022	0.63%	-1,978
2024	1,752,362	1,303,460	12,500	0.96%				

cols b,c,d,e are based on DEF's 2020 Program Plan approved by the Commission in Docket 20200054-EG
col 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 @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Winter kW Reduction	1.92	2.02	5,599	5,893
Summer kW Reduction	1.35	1.42	3,937	4,143
Annual kWh Reduction	0.00	0.00	0	0

Utility Cost per Installation: *	$71
Total Program Cost of the Utility ($000):**	$30,761
Net Benefits of Measures Installed During Reporting Period ($000):	$17,738

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 433,000

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
Program Name: Business Energy Check
Program Start Date: 1991
Reporting Period: 2023

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)
2020	178,557	178,557	400	0.22%	429	429	0.24%	29
2021	181,015	180,615	800	0.44%	287	716	0.40%	-84
2022	183,346	183,346	1,200	0.65%	146	862	0.47%	-338
2023	185,608	185,608	1,600	0.86%	479	1,341	0.72%	-259
2024	187,771	187,771	2,000	1.07%				

cols b,c,d,e are based on DEF's 2020 Program Plan approved by the Commission in Docket 20200054-EG

Annual Demand & Energy Savings (during the reporting period)	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Winter kW Reduction	0.03	0.04	17	17
Summer kW Reduction	0.08	0.08	37	39
Annual kWh Reduction	451.02	471.21	216,037	225,711

Utility Cost per Installation:	$1,185
Total Program Cost of the Utility ($000):	$568
Net Benefits of Measures Installed During Reporting Period ($000):	N/A

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
Program Name: Smart $aver Business (f/k/a Better Business)
Program Start Date: April 1996 with modifications approved in 2006, 2015, 2016 and 2018
Reporting Period: 2023

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)
2020	178,557	178,557	2,589	1.45%	951	951	0.53%	-1,638
2021	181,015	181,015	5,048	2.79%	167	1,118	0.62%	-3,930
2022	183,346	183,346	7,384	4.03%	172	1,290	0.70%	-6,094
2023	185,608	185,608	9,603	5.17%	216	1,506	0.81%	-8,097
2024	187,771	187,771	11,712	6.24%				

cols b,c,d,e are based on DEF's 2020 Program Plan approved by the Commission in Docket 20200054-EG

Annual Demand & Energy Savings (during the reporting period)	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Winter kW Reduction	21.80	22.78	4,710	4,921
Summer kW Reduction	6.26	6.54	1,352	1,412
Annual kWh Reduction	44,110.19	46,085.49	9,527,802	9,954,465

Utility Cost per Installation:	$8,109
Total Program Cost of the Utility ($000):	$1,752
Net Benefits of Measures Installed During Reporting Period ($000):	-$917

Demand Side Management Annual Report

Utility: DUKE ENERGY FLORIDA, LLC.
Program Name: Smart $aver Custom (f/k/a Florida Custom Incentive Program)
Program Start Date: 1991
Reporting Period: 2023

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)
2020	178,557	178,557	200	0.11%	134	134	0.08%	-66
2021	181,015	181,015	390	0.22%	21	155	0.09%	-235
2022	183,346	183,346	571	0.31%	0	155	0.08%	-416
2023	185,608	185,608	743	0.40%	0	155	0.08%	-588
2024	187,771	187,771	906	0.48%				

cols b,c,d,e are based on DEF's 2020 Program Plan approved by the Commission in Docket 20200054-EG

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

Utility Cost per Installation: 0
Total Program Cost of the Utility ($000): $214
Net Benefits of Measures Installed During Reporting Period ($000): -$218

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: 2023

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)
2020	178,557	0	0	0.00%	0	0	0.00%	0
2021	181,015	0	0	0.00%	0	0	0.00%	0
2022	183,346	0	0	0.00%	0	0	0.00%	0
2023	185,608	0	0	0.00%	0	0	0.00%	0
2024	187,771							

cols b,c,d,e are based on DEF's 2020 Program Plan approved by the Commission in Docket 20200054-EG

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

Utility Cost per Installation:	$10,379
Total Program Cost of the Utility ($000): *	$612
Net Benefits of Measures Installed During Reporting Period ($000):	N/A

**** 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 the End of the Year*** 59

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: 2023

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)
2020	178,557	178,557	10	0.01%	5	5	0.00%	-5
2021	181,015	181,005	20	0.01%	5	10	0.01%	-10
2022	183,346	183,326	35	0.02%	3	13	0.01%	-22
2023	185,608	185,573	50	0.03%	4	17	0.01%	-33
2024	187,771	187,721	65	0.03%				

cols b,c,d,e are based on DEF's 2020 Program Plan approved by the Commission in Docket 20200054-EG

Annual Demand & Energy Savings (during the reporting period)	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Winter kW Reduction	640	668	2,559	2,674
Summer kW Reduction	640	668	2,559	2,674
Annual kWh Reduction	0	0	0	0

Utility Cost per Installation: *	$32,338
Total Program Cost of the Utility ($000):**	$6,047
Net Benefits of Measures Installed During Reporting Period ($000):	$6,962

**** 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 187

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: 2023

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)
2020	178,557	697	16	2.30%	7	7	1.00%	-9
2021	181,015	681	26	3.82%	4	11	1.62%	-15
2022	183,346	671	30	4.47%	2	13	1.94%	-17
2023	185,608	667	36	5.40%	1	14	2.10%	-22
2024	187,771	661	44	6.66%				

cols b,c,d,e are based on DEF's 2020 Program Plan approved by the Commission in Docket 20200054-EG

Annual Demand & Energy Savings (during the reporting period)	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Winter kW Reduction	20,000	20,896	20,000	20,896
Summer kW Reduction	20,000	20,896	20,000	20,896
Annual kWh Reduction	0	0	0	0

Utility Cost per Installation: *	$279,405
Total Program Cost of the Utility ($000): **	$48,337
Net Benefits of Measures Installed During Reporting Period ($000):	$47,086

**** 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 173

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: 2023

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)
2020	178,557	697	1	0.14%	0	0	0.00%	-1
2021	181,015	696	1	0.14%	0	0	0.00%	-1
2022	183,346	696	2	0.29%	0	0	0.00%	-2
2023	185,608	695	2	0.29%	1	1	0.14%	-1
2024	187,771	695	3	0.43%				

cols b,c,d,e are based on DEF's 2020 Program Plan approved by the Commission in Docket 20200054-EG

Annual Demand & Energy Savings (during the reporting period)	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Winter kW Reduction	1,614.0	1,614.0	1,614.0	1,614.0
Summer kW Reduction	---	---	1,614.0	1,614.0
Annual kWh Reduction	---	---	0.0	0.0

Utility Cost per Installation: *	$377,599
Total Program Cost of the Utility ($000): **	$1,888
Net Benefits of Measures Installed During Reporting Period ($000):	$5,430

**** Utility cost per Installation is based on the 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 5

AUSLEY MCMULLEN

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March 1, 2024

VIA: ELECTRONIC MAIL

Ms. Elizabeth Draper, Director
Division of Economics
Florida Public Service Commission
Room 225E – Gerald L. Gunter Building
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850
EDraper@psc.state.fl.us

Re: Tampa Electric Company's Summary of 2023 DSM Program Accomplishments

Dear Ms. Draper:

Enclosed for filing is Tampa Electric Company's Summary of 2023 Demand Side Management Program Accomplishments.

Thank you for your assistance in connection with this matter.

Sincerely,

Malcolm N. Means

MNM/bml
Enclosure

cc: Paula K. Brown (w/o enc.)
Ashley Sizemore (w/o enc.)
Michael Barrett (w/enc.) MBarrett@psc.state.fl.us

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TAMPA ELECTRIC'S 2023

Demand Side Management Program Accomplishments Report



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Executive Summary

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Executive Summary:

In 2023, Tampa Electric achieved all of the annual and cumulative Residential and Commercial/Industrial ("Comm/Ind") and combined Demand and Annual Energy ("AE") DSM goals.

2023 Residential Goals		Actual Residential DSM Achieved	
SkW:	2.9 MW	SkW:	12.5 MW
WkW:	6.8 MW	WkW:	10.3 MW
AE:	6.3 GWh	AE:	29.6 GWh

2023 Comm/Ind Goals		Actual Comm/Ind DSM Achieved	
SkW:	3.5 MW	SkW:	8.1 MW
WkW:	1.8 MW	WkW:	7.2 MW
AE:	9.9 GWh	AE:	30.3 GWh

2023 Combined Goals		Actual Combined DSM Achieved	
SkW:	6.4 MW	SkW:	20.6 MW
WkW:	8.6 MW	WkW:	17.4 MW
AE:	16.2 GWh	AE:	59.9 GWh

This 2023 DSM Annual Report provides the required DSM reporting information as required by the Commission, including providing updates on historical program accomplishments, challenges and highlights that occurred.

2023 DSM Summary Highlights:

- Tampa Electric's team members that facilitate the conservation related activities experienced zero injuries during 2023.

- The company performed 12,348 Walk-Through Energy Audits for Residential customers, including 4,090 as part of the Residential Walk-Through and Computer Assisted Energy Audit programs and 8,258 as a component of the company's Neighborhood Weatherization program.

- 100,189 of the company's customers took advantage of the Residential Customer Assisted Energy Audit (online).

- The company installed weatherization on 8,258 homes as part of the Neighborhood Weatherization program. This participation rate brings the overall penetration level of this program to approximately 44 percent for all qualifying customers.

- The company's Program Support Team processed nearly 100 percent of the 7,796 energy efficiency rebates paid to customers within ten business days of receiving all the required documents for verification.

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- Tampa Electric completed the third year of operational testing of the Integrated Renewable Energy System ("IRES"). A detailed summary report is included within this report.

- The company moved forward with the small to mid-size commercial battery Research and Development (R&D) project. A summary of these activities within this R&D project is included within this report.

- Tampa Electric completed the five-year Street and Outdoor Lighting conversion program as of April 2023. This complete program converted 209,821 luminaires to light emitting diode technology and achieved 29.860 MW of winter peak demand reduction and 127.141 GWh of ongoing annual energy savings.

- In 2023, the company continued collaborating with the other FEECA utilities to develop the Technical Potential Study that will serve as the basis for the DSM Goals that will be proposed for the 2025-2034 period and filed in the Spring of 2024.

- The image below is the company's Senior Commercial Energy Analyst presenting the Commission's Triple E award winner for the final quarter of 2022 to the Tampa Bay Historic History Center



Challenges:

In 2023, the only challenge involved working to meet the requirement to perform energy audits within 21 days of the request from the customer. Tampa Electric is very proud of the collaboration and teamwork that was performed by the Residential Energy Management Team to ensure the 21-day rule was met. The company monitors this metric on a weekly basis. Historically, the number of residential walk-through audit requests becomes higher, as expected, in the warmer summer months. In August, the company started getting close to this limit and all hands jumped on deck to perform the high-quality walk-through energy audits for the company's residential customers. The company began performing extended days by offering energy audits from 7am to after-hours appointments and even had the Manager of the Residential Energy Management Team performing audits to ensure the company was being responsive to the customer's requests. After the first full week of September, the Residential Team was able to get this day limit reduced due to their hard work and dedication to Tampa Electric's customers.

For 2024:

Tampa Electric remains committed to offering DSM programs that advance the policy objectives of FEECA, are directly monitorable, yield measurable results and are cost-effective to deliver. The company will continue its advertising campaign of bill inserts, print media and television advertisements aimed at educating customers on opportunities to participate in programs to assist in meeting their energy efficiency requirements.

2023 Annual Report on DSM Program Accomplishments

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Historical Participation, Achievements, and Expenditures

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Historical Participation, Achievements and Expenditures:

Tampa Electric has been offering cost-effective energy efficiency programs since September 1978, when the company started its first residential walk-through energy audit program, known as the Residential Conservation Service. Following the enactment of the Florida Energy Efficiency and Conservation Act ("FEECA"), the company began expanding its offering of Demand Side Management ("DSM") programs to include other energy efficiency and load management programs such as Heating and Air Conditioning, Storage Water Heating, Commercial Energy Audits, Efficiency Buildings, Residential Load Management, Commercial/Industrial Interruptible and Co-Generation. These programs were all designed to achieve the objectives of FEECA, including:

1. Reducing the growth rates of weather-sensitive peak demand and electricity usage.
2. Increasing the efficiency of the production and use of electricity and natural gas.
3. Encouraging demand-side renewable energy systems
4. Conserving expensive resources, particularly petroleum fuels

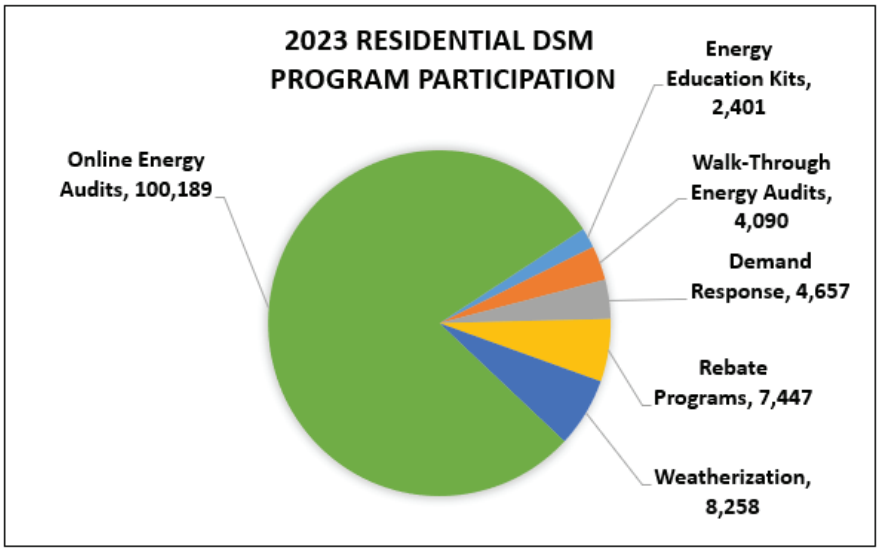
In 2023, Tampa Electric continued to provide the largest portfolio of residential and commercial/industrial energy and demand savings programs in the state of Florida through its Commission approved 2020-2029 DSM Plan. This comprehensive energy efficiency portfolio provides programs in which all customers can participate in and helps customers save energy, demand, money, and benefits all of the company's customers by reducing the company's need to purchase, produce, and deliver additional energy, in addition to reducing emissions to the environment.

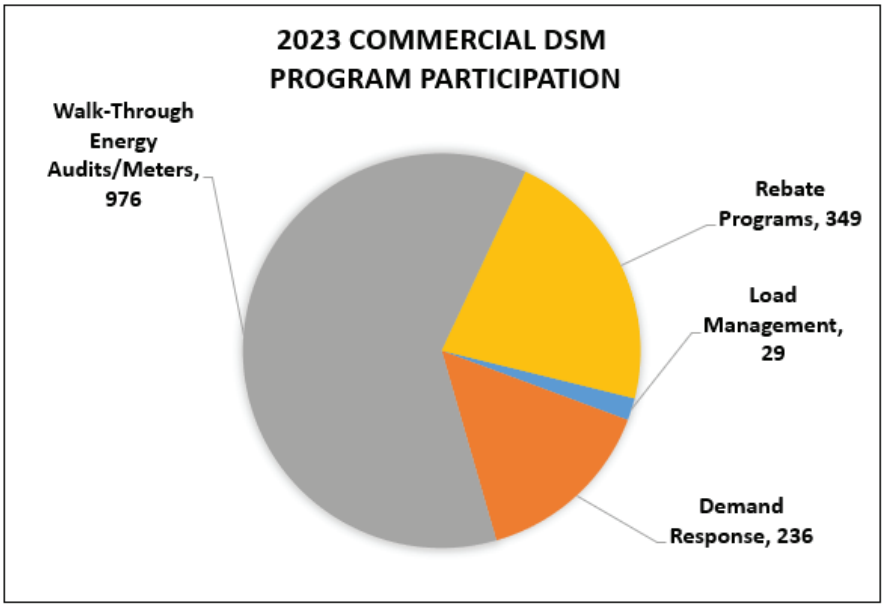
Tampa Electric received approval of its 2020-2024 Demand Side Management ("DSM") goals in Order No. PSC-2019-0509-FOF-EG, issued on November 26, 2019, in Docket No. 20190021-EG. The company received approval of its 2020-2029 DSM Plan in Order No. PSC-2020-0274-PAA-EG, issued on August 3, 2020, in Docket No. 20200053-EG. Tampa Electric transitioned to the DSM programs within the 2020-2029 DSM Plan on November 2, 2020, pursuant to receiving final approval of the supporting DSM standards on September 8, 2020.

Customer Participation:

In 2023, Tampa Electric facilitated the participation of 127,042 residential and 1,590 commercial/industrial customers in the company's DSM programs. The charts below provide the breakdown of how these customers participated in the company's DSM programs for the January through December 2023 period:

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On an historical basis, as of the end of 2023, Tampa Electric has conducted 376,2221 Residential and Commercial Walk-Through energy audits, provided 557,543 online, phone or mail in energy audits, paid 523,896 rebates for energy efficient upgrades, and has performed weatherization on 79,010 homes.

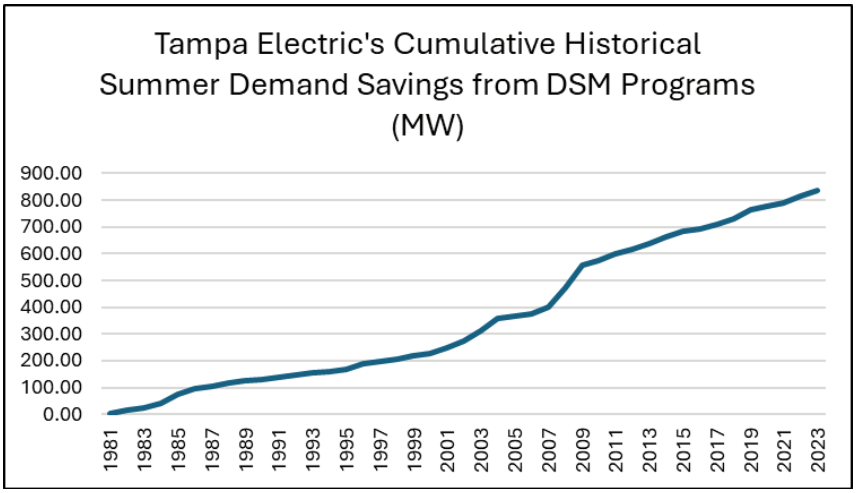
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DSM Achievements:

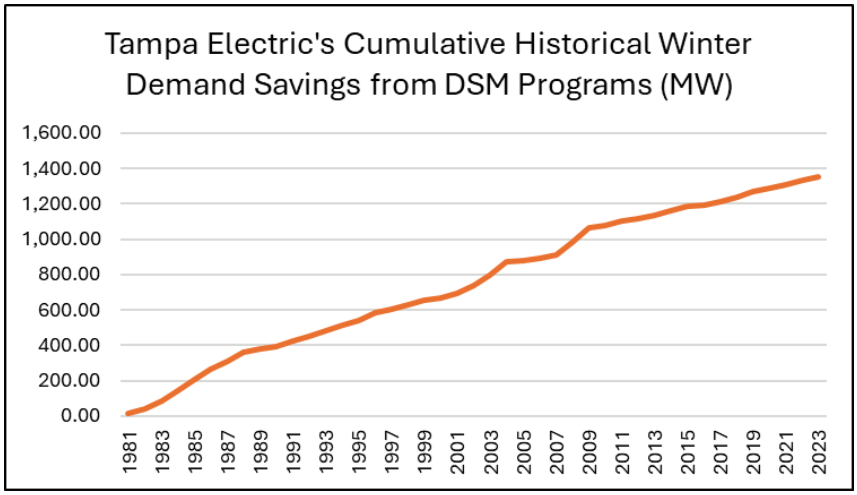
Since the establishment of FEECA and the end of 2023, the company's DSM program have achieved the following cumulative demand and energy savings:

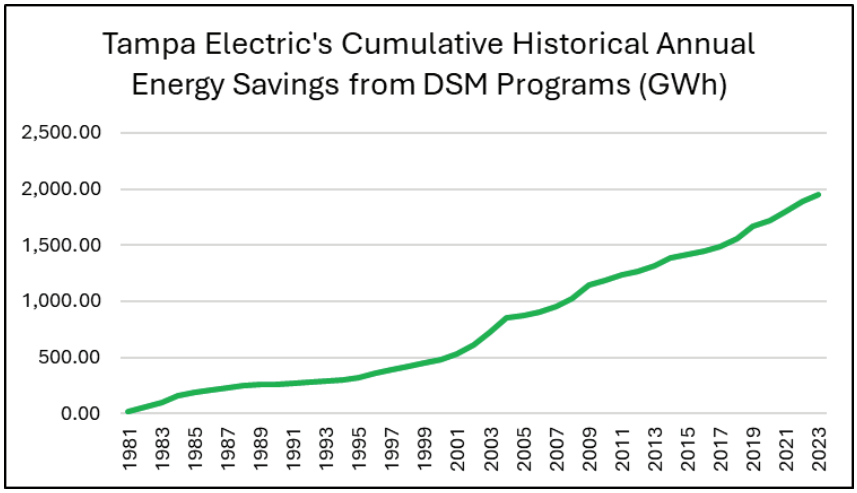
Summer Demand Savings:	835.42 MW
Winter Demand Savings:	1,349.83 MW
Annual Energy Savings:	1,950.12 GWh

It is important to note that the annual energy savings documented for achievement includes only one year of energy savings from the participation in a given DSM program. These energy savings also do not include naturally occurring energy efficiency or savings that would occur from updated building codes or savings that would come from training events. The savings do include demand and energy savings that do not contribute toward the achievement of the annual DSM goals set forth by the Commission (such as behavioral savings quantified or savings from programs such as the LED Streetlight conversion program). These continued Demand Savings achievements have eliminated the need for over seven 180 MW power plants. The charts below show the cumulative demand and energy savings the company has achieved since 1981:



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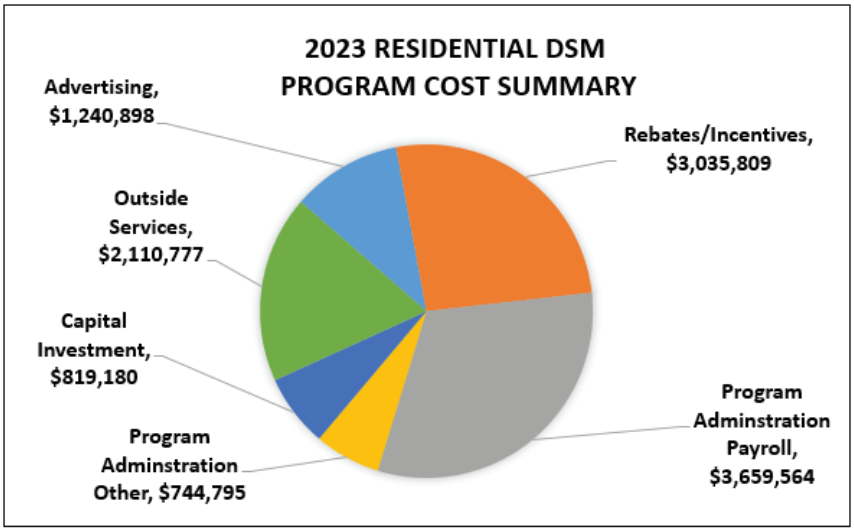


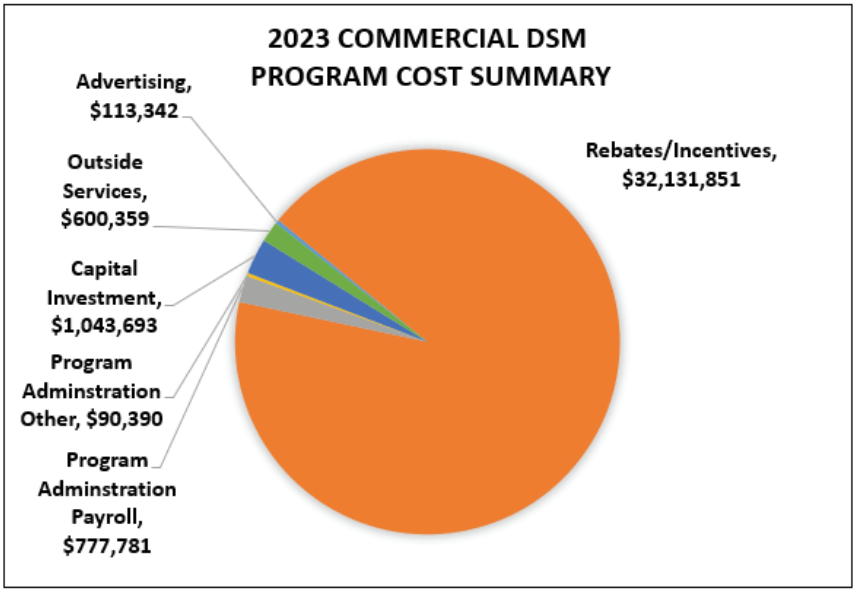


Expenditures:

In 2023, Tampa Electric facilitated the participation of 127,042 residential and 1,590 commercial/industrial customers in the company's DSM programs. The charts below provide the breakdown of the initial true-up costs that were incurred to fund their participation in the company's DSM programs for the January through December 2023 period:

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Energy Audits

Energy Audits:

Residential Energy Audits:

Tampa Electric facilitates four types of energy audits for residential customers. A walk-through energy audit, an online energy audit, a comprehensive energy audit, and a Building Energy-Efficiency Ratings Systems ("BERS") energy audit. The walk-through and online energy audit are free to take advantage of, while the comprehensive and BERS audit have a nominal additional fee to have these performed.



(Tampa Electric Residential Analyst explaining the operation and settings of a water heater)

All of Tampa Electric's Residential Energy Analysts that conduct energy audits are required to achieve and maintain a professional certification in energy auditing or energy management.



(Tampa Electric Residential Energy Analyst taking ceiling insulation depth measurements)

Tampa Electric Residential Energy Management Analysts discussing energy management with customers.



Commercial Energy Audits:

Tampa Electric facilitates two types of energy audits for commercial/industrial customers. A walk-through energy audit and a comprehensive energy audit. The walk-through energy audit is free to take advantage of, while the comprehensive energy audit has a nominal additional fee to have it performed.

All of Tampa Electric's Commercial/Industrial Energy Analysts that conduct energy audits are required to achieve and maintain the Certified Energy Manager ("CEM") professional certification.

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(Tampa Electric Commercial/Industrial Energy Analyst taking notes during their walk-through)







(Members of the company's Commercial Energy Management Team discussing energy management at the Florida Building Maintenance trade show)



The table below provides the summary detail of "audit information by type" for the Energy Audits performed by Tampa Electric in 2023.

Tampa Electric's 2023 Energy Audits Performed by Energy Audit Type				
	Walk-Through, BERS, and Computer Assisted	Online	Phone	Total
Residential	4,095	100,189	0	104,284
	Walk-Through and Comprehensive	Online	Phone	Total
Commercial	976	N/A	0	976

On an historical basis, as of the end of 2023, Tampa Electric has conducted 376,221 Residential and Commercial Walk-Through energy audits and provided 557,543 online, phone or mail in energy audits.

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Energy Education and Weatherization Activities

Energy Education and Weatherization Activities:

Energy Education:

Tampa Electric's Energy and Renewable Education, Awareness and Agency Outreach program is comprised of three distinct initiatives:

1) Public energy and renewable education
2) Energy awareness
3) Agency outreach

This portion of the program is designed to establish opportunities for engaging groups of customers and students in energy-efficiency and renewable energy related discussions in an organized setting. Tampa Electric recognizes the importance of educating students and motivating customers through participation in its energy audits and raising awareness of energy conservation, energy efficiency and renewable energy efficiency. This program provides the opportunity to accomplish these initiatives for large groups in one setting.



Junior Achievement work area which trains children to be energy auditors as they participate in this activity.

In addition, the children can play the Energy Snatchers game which helps them understand the conservation of energy through identifying energy wasters.

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In 2023, Tampa Electric participated in over 40 designated energy education and awareness events across the company's service area. These events do not include the daily opportunities for energy education that Tampa Electric Team Members have with customers through email, phone calls, or one-on-one discussions nor the education customers receive when they participate in one of Tampa Electric's Commission approved DSM programs. These events cover educating all ages, income classes and rate classes of customers on energy education and awareness. Several highlighted events include:

- Brandon Lions Club Members Event
- Community Lifestyles after 50 Event
- Martin Luther King Parade City of Tampa
- United Negro College Fund "UNCF" Walk for Education - Tampa
- Lake Fantasia Energy Fair
- Community Lifestyles after 50 Event
- Macfarlane Park Elementary School
- Agricultural and Labor program, Inc. "ALPI" Energy Fair – Lakeland
- ALPI Energy Fair – Haines City
- Tampa bay Buccaneers Energy Education Corner
- Tampa Housing Authority Community Event
- Tampa Housing Authority Energy Education
- Peoples Gas Lunch and Learn
- Pride Parade
- Tampa Bay Water Days and Energy Education
- Community Eggstravaganza
- Patel High School STEM FEST
- Tampa Bay Lighting Go Green
- Blythe Andrews High School Energy Story
- Bay Area Apartment Association
- Raymond James Earth Walk
- WEDU Be My Neighbor Day
- ECO FEST Learning Gate Community School
- East Tampa Public Health & Wellness
- East Tampa Partnership Energy Education Event
- Clean Air Fair
- 2023 Juneteenth Community Celebration
- Center for Economic Development
- East Tampa Community Revitalization Community
- Hillsborough Community College Education Center
- 7 Rivers Water Community Festival
- Homebuyer Energy Education Workshop

- Tampa Hispanic Expo
- South Tampa Chamber of Commerce
- American Heart Walk
- Plant City Pig Jam Community Event
- Town n Country Community Parade
- Great American Teach-In (several Elementary Schools)
- Association of Energy Engineers World Conference



Tampa Electric Energy Management Team Members providing energy education to residential and commercial/industrial customers at the Association of Energy Engineers ("AEE") World conference in Orlando.

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Energy Education for Family's at WEDU's annual sustainability event in Tampa.

These two images below are from the Bay Area Apartment Association ("BAAA") convention that was held at the Florida State Fairgrounds. This event brings Property Managers from all over the area for multifamily complexes which provides Tampa Electric an opportunity to promote energy education and awareness and weatherization programs.



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Tampa Electric commits to continue partnering with neighborhood service centers to ensure customers who need assistance in reducing their energy usage and associated cost will receive the appropriate energy education and guidance. Participants will be provided with an energy efficiency kit containing the following energy saving devices and supporting information appropriate for the audience.

- Four LED lamps
- HVAC filter whistle
- Two low flow faucet aerators
- Wall plate thermometer
- Water heating temperature check card for adjustment of the water heater
- Energy savings education handout

In 2023, Tampa Electric provided 2,401 of these energy efficiency kits to qualifying customers.

Additionally, as part of energy education and awareness, the program has a component to encourage the conservation of energy and for the promotion of energy efficiency through local school systems by partnering with high schools' driver's education classes. In 2023, the company has been collaborating with the school district to reengage the energy efficiency and electric vehicle ("EV") training curriculum. The school

district has been working through the potential redesign of their drivers' education program. Because of this potential redesign, there were no students trained in 2023 for this part of the program.

Tampa Electric continued to work on developing an effective platform that will provide quality information on Renewable Energy and is projecting this platform to be available to customers in the early part of 2024.

Agency Outreach:

Tampa Electric is involved on many fronts with different agencies that provide assistance or guidance to ensure that low-income / vulnerable customers have an equitable access to the company's DSM programs. In 2023, these activities included partnerships with:

American Council for an Energy Efficient Economy ("ACEEE"). The continues to participate in ACEEE's city, state, and utility scorecards for measuring and benchmarking energy equity. In addition, annually the company provides a variety information regarding the company's DSM Programs to the ACEEE through several surveys throughout the year.

Consortium for Energy Efficiency ("CEE"). In 2023, the company continued its participation in a three-year study for Energy Equity through the CEE. The purpose of this study is to convene broad participation from behavior professionals within the energy efficiency industry to build consensus on characterizing and defining hard to reach audiences, and to ensure that program administrators are equitably serving all their customers, including audiences such as income eligible, low-English proficient, rural residential, and small/medium sized businesses. Through this study, the company collaborates with other trusted and respected US and Canadian program administrators with both equity and behavior responsibilities. The study also provides member sponsors with the opportunity to learn successful approaches to engaging precisely defined underserved customers in both the electric and natural gas sectors.

Distributed Energy Financial Group's Executive Advisory Panel of the Equity in the Clean Energy Economy ("ECEE"). In 2023, the company continue to be a sponsor of the Collaborative which examines the impacts of distributed and renewable energy on the grid, the traditional utility business model, and customers, especially around affordability and access with particular attention provided to ensure that at-risk customers share the benefits of the transition to a clean energy economy. This sponsorship focuses on improving customer options, experience, and service to low-income customers through the low-Income Energy Issues Forum (LIEIF).

Center of Economic Development Organization. In 2002, the company joined in a new partnership early with The Center of Economic Development Organization to create awareness and provide education to veterans, disabled customers, seniors, and low-income homeowners. This partnership allows the company to be in several communities working with other community volunteers to deliver energy education and installation of the weatherization program. Through this partnership for 2023, the company was able to educate 425 customers in addition to weatherizing their homes with energy efficiency measures including duct seal and insulation.

Tampa Housing Authority. In 2023, the company coordinated efforts with Tampa Housing Authority to for the delivery of Energy Education and Neighborhood Weatherization measures to three (3) different communities reaching approximately 800 customers.

Weatherization:

Tampa Electric's Neighborhood Weatherization program offers a comprehensive energy efficiency kit and increased energy education, with the addition of the walk-through energy audit that was added in the most recent DSM Plan, to assist low-income residential customers in becoming more energy efficient. The comprehensive energy efficiency kit includes the following 12 energy savings measures, in addition to ceiling insulation and/or duct sealing depending on the needs of the home:

- Six light emitting diode ("LED") lamps
- HVAC filter whistle
- Installation of up to three low flow faucet aerators
- Installation of up to two low flow shower heads
- Installation of a wall plate thermometer
- A water heating temperature check card for adjustment of the water heater
- Installation of hot water pipe insulation, if necessary
- Installation of weather stripping, if necessary
- Installation of caulking to seal windows, if necessary
- Installation of sealing foam to seal air infiltration issues, if necessary
- Refrigerator coil cleaning brush
- Installation of ceiling insulation, if needed
- Repair of duct seal, if needed
- Walk-Through Energy Audit
- Energy savings education handout

In 2023, Tampa Electric provided 8,258 customers with the weatherization of their homes. It is important to note that homes can be single family,

manufactured, mobile or multi-family homes. For qualification, the company uses Florida Census Tract data to determine eligibility and the customer does not need to own the home. On a historical basis, Tampa Electric has performed weatherization on 79,010 homes.

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Pilot Programs and Research and Development Updates

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LED Street Light Conversion Program, five year program - update:



Tampa Electric completed the Light Emitting Diode ("LED") Street and Outdoor Lighting conversion program. In 2023, the company converted the remaining 8,827 street and outdoor lighting luminaires to LED technology as part of this program.

The final luminaires were replaced by April 2023 and the company informed Commission Staff that the program was complete. While this program does not supplement the company's conservation efforts toward achieving the Commission's annual demand and energy goals above, these luminaire replacements contributed the following additional annual and cumulative demand and energy savings at the generator:

2023 Achievements		Total Program Achievements	
SkW:	0.000 MW	SkW:	0.000 MW
WkW:	1.256 MW	WkW:	29.860 MW
AE:	5.349 GWh	AE:	127.141 GWh

Integrated Renewable Energy System, five-year pilot program – update:



The Integrated Renewable Energy System ("IRES") – Pilot Program continued to be studied following its commissioning in 2021. The system consists of 862 kW photovoltaic system located on five carports, five commercial-sized powerpack batteries capable of storing 1,160 kWh of energy, six dual headed level "2" electric vehicle charging systems, and 10 industrial truck battery charging stations. This pilot program has three main purposes: the first is to evaluate the ability to maximize the demand side

management benefits from this integrated system, second is to determine the ideal operating parameters that a commercial or industrial customer would operate this type of system, and third, to use the installation and its associated operational information as an education platform for commercial and industrial customers seeking information on this type of system and its benefits, concerns, and capabilities.



(North end of IRES carport solar array, with commercial batteries)

The following details the lessons learned throughout this year of operation:

- The company tested the ability of the batteries to charge and discharge using several different time based scenarios throughout the year. During these scenario changes, a repeated challenge for this system was experienced similar to last year. For reprogramming of the charging and discharging time, these changes required the company to go through the vendor which typically would take at least one day. This delay would make it very problematic as part of a DSM program for demand response or load management in Florida as these programs typically are not scheduled days in advance and can operate with little to no warning depending on the reason for the need to curtail load on the system. This feature may support other jurisdictions which give day ahead notices for curtailment. This would be a feature that would need to be addressed in the initial contract with the

battery manufacturer to ensure that the owner of this system has this control over charging or discharging times.

- The evaluation of the system's intelligence, aimed at assessing its ability to detect solar presence and adjust charging and discharging accordingly, proved to be unsuccessful. The batteries optimizer program, which is employed for this purpose, demonstrated less suitability for structured hours of discharge and charging, and exhibited erratic performance.

- The system was tested for performance in storm mode. This test was successful and validated the system's performance for a duration of four (4) hours in this mode.

- A new challenge with the battery vendor came from their restructuring of internal departments or changing their internal customer service supporting processes. During this year, the vendor transitioned to a service ticket system with new security protocols and the removal of a dedicated contact has removed the ability to get immediate response when experiencing an issue. In addition, access to the supporting service ticket software required non-disclosure agreements to be signed which further delayed testing or changes. This change also removed all of the vendor’s experience and knowledge with this pilot program, while this is not a typical set up and thus made those responding to the tickets have no history of the scope of the project or what is trying to be accomplished. The clarity of the contracts for what goods and services are actually being provided would need to be in place to mitigate this issue.

- The company encountered issues with how the original batteries were programmed during the reconfiguration of the timing of charging and discharging scenarios. Understanding of how the batteries are programmed to operate is imperative for these systems, not just from a charging and discharging time, or depth of discharge perspectives but also what devices are allowed to charge the battery (i.e. – can the battery be only charged from the solar system only, from the electrical grid, or a combination of sources)

- The company completed testing to determine the maximum depth of discharge to maximize the performance of the battery and at the same time maximize the benefits for load shedding. These test scenarios revealed that discharging below 30 percent of the rating of the battery is not recommended.

- The PV portion of the system experienced one failed invertor on the PV system. The issue was caught during the annual maintenance of the system which places an importance on the warranty of these systems, in addition to reinforcing that these systems need ongoing maintenance to

ensure the benefits of the systems are realized. The invertor manufacturer is currently assessing the defective inverter to determine whether a complete replacement is necessary or if repairing the problematic module is a viable option.

- The system was adversely impacted by a lightning storm strike that impacted the firewall communications which turned off connectivity with the system for a period of time. While systems communications were impacted, increased site visits during this time confirmed that the system continued to operate.

- Annual maintenance was found to be effective on weekends. This timing, while at a premium rate for labor, resulted in no operational impacts to the overall integrated system.

- The company promoted this pilot program to commercial and industrial customers through Tampa Electric's Power Forward Blog, featuring articles on the system. The company's Commercial Energy Management Team's Supervisor also presented information on the operation and benefits of the system at the Building Owners and Managers Association ("BOMA") and the Florida Builders Maintenance Show ("FBMS"). The company anticipates that tours will occur in 2024 to see this system.

Commercial Battery Storage,
Research and Development - Update:

In the last quarter of 2016, Tampa Electric partnered with the University of South Florida ("USF") College of Engineering to assist in the performance of this Conservation Research and Development ("CRD") project to evaluate the feasibility of potentially offering a battery storage DSM program for commercial/industrial customers. This CRD project will evaluate these small to mid-size commercial battery storage installations through research and field study with at least one battery being installed at a commercial/industrial customer's facility. Tampa Electric specified the size of battery for this CRD project to be between 10 kW and 150 kW with the project from inception to completion lasting approximately three-years. The original timeline was to afford enough time to study these batteries and potentially justify a DSM program within the company's 2020-2029 DSM Plan if the results were positive. The original R&D project was projected to cost approximately $250,000 to achieve the following objectives:

- Evaluate the potential for battery storage for the use of load shifting on demand savings.

- Evaluate the efficiency of load shifting from a battery storage system and the associated control and monitoring system.
- Evaluate the impact on the total energy consumption of the battery and facility when used in a load shifting capacity (versus reliability).
- Evaluate and compare batteries based on performance and cycling tolerance when used in Florida's climate.
- Examine the associated costs from cradle to disposition of battery.
- Evaluate the load profile impact on power vs. capacity tradeoffs.

To achieve these objectives, the small to mid-size Commercial Battery Storage project was broken down into the following four main phases:

1. Battery selection
2. Identify commercial facilities
3. Battery vendor selection
4. Installation of storage system

Phase 1 was completed by USF in 2017. Tampa Electric included a copy of the battery research study in the company's annual DSM report that was filed with the Commission on March 1, 2018. In 2017, after completion of the initial portion of the CRD project, the company sought product availability and costs and found that the prices were greater than the allocation of funds allowed as an R&D program and placed the pursuit of this CRD project on hold until the prices of the batteries dropped to an acceptable level. The company's Commercial Energy Management Team ("CEMT") has continued to keep a pulse on the market and monitors the prices of the batteries to continue the CRD project. In addition to monitoring the prices of the batteries to continue the CRD project, Tampa Electric also filed for an increase in the allowable funds to be used for CRD in the company's most recently filed and Commission approved 2020-2029 DSM Plan. In the 2020-2029 DSM Plan, the program costs were increased on an annual basis from $200,000 per year to $400,000 per year and increased the five-year period total allowable costs from $1,000,000 to $2,000,000.

Below are the specific items the company completed in 2023 in preparation of completing the three final phases of this CRD project.

- Site Selection: the company has been collaborating with two customers to implement the battery systems that were identified. The first customer is a not-for-profit training center for people with disabilities. The second customer identified was going to be a low-income community center but during the finalizing of the space requirements for the battery installation, the owner of the facility deemed that there was no suitable location for the container that would house the battery to be installed. The company started looking for another similar facility for the second location.

- The company collaborated with safety subject matter experts to conduct a Hazard and Operability Study (HAZOP). For the performance of this study,

A dedicated session involving battery experts, the risk team, and the safety team was held with the Company's Commercial Energy Management Team to thoroughly review the prospective projects. The outcome was a comprehensive plan and execution strategy, accompanied by assigned follow-up tasks.

- Site Considerations: the company conducted a comprehensive assessment of site requirements, considering factors such as available wall space, exterior conditions, age of the building, physical features that may need to be altered, and parking considerations. The company encountered a challenge with parking lot space due to enforcement laws governing handicapped (Accessible) spaces. This necessitated the inclusion of this identification in the design. In addition, due to the age of the facility made it necessary to test for lead and asbestos due to needing to remove a portion of a wall to support the battery installation (these environmental tests both came out with favorable results).

- The company has been working with the legal and procurement teams to initiate the development of required legal agreements to support this CRD project.

- Collaborated closely with the building owners to asses any electric design changes that would need to be performed to support the installation of the battery systems.

- Developed the necessary interconnection agreements applicable to this project.

- The company anticipates that the first customer will have the battery installed in the early part of 2024.

Heat Pump Water Heater, Research and Development - Update:

Tampa Electric is abandoning this potential CRD project due to the results received in the company's recent Technical Potential Study for residential heat pump water heaters.

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 1, 2024

2023 DSM Program Achievements

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 1, 2024

The following pages present individual program participation levels and summaries that demonstrate the company achievements toward its annual residential, commercial, and combined DSM goals as described in Rule 25-17.0021(5), Florida Administrative Code.

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL ALTERNATE AUDIT (aka Walk-Thru Audit or EA Free)
Program Start Date: May 1981
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	628,392	628,392	8,400	8,400	1.3%	8,304	8,304	1.3%	(96)
2016	640,090	640,090	8,400	16,800	2.6%	6,902	15,206	2.4%	(1,594)
2017	651,770	651,770	7,800	24,600	3.8%	5,501	20,707	3.2%	(3,893)
2018	662,917	662,917	6,000	30,600	4.6%	7,667	28,374	4.3%	(2,226)
2019	677,922	677,922	6,500	37,100	5.5%	6,786	35,160	5.2%	(1,940)
2020	691,719	691,719	5,000	42,100	6.1%	1,514	36,674	5.3%	(5,426)
2021	704,770	704,770	3,700	45,800	6.5%	1,035	37,709	5.4%	(8,091)
2022	721,172	721,172	4,400	50,200	7.0%	4,308	42,017	5.8%	(8,183)
2023	736,127	736,127	4,050	54,250	7.4%	4,090	46,107	6.3%	(8,143)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 4,090

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.10	0.10	392.64	421.30
Winter kW Reduction	0.13	0.14	519.43	557.35
Annual kWh Reduction	625	660	2,556,250	2,699,400

Annual Demand and Energy Savings, Note 1

Participants 4,090

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	392.64	421.30
Winter kW Reduction	519.43	557.35
Annual kWh Reduction	2,556,250	2,699,400

Utility Cost per Installation ($): 529
Total Program Cost of the Utility ($000): 2,162.1
Net Benefits of Measures Installed During Reporting Period ($000): (1,616.8)
Note 1: Demand and energy savings not included in achievements

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL CUSTOMER ASSISTED AUDITS
Program Start Date: June 1996
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	628,392	628,392	1,390	1,390	0.2%	658	658	0.1%	(732)
2016	640,090	640,090	1,200	2,590	0.4%	1,017	1,675	0.3%	(915)
2017	651,770	651,770	500	3,090	0.5%	409	2,084	0.3%	(1,006)
2018	662,917	662,917	800	3,890	0.6%	27,734	29,818	4.5%	25,928
2019	677,922	677,922	35,000	38,890	5.7%	57,370	87,188	12.9%	48,298
2020	691,719	691,719	42,000	80,890	11.7%	59,766	146,954	21.2%	66,064
2021	704,770	704,770	60,000	140,890	20.0%	68,540	215,494	30.6%	74,604
2022	721,172	721,172	75,000	215,890	29.9%	109,802	325,296	45.1%	109,406
2023	736,127	736,127	75,000	290,890	39.5%	100,189	425,485	57.8%	134,595
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 100,189

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.07	0.08	7,213.61	7,740.20
Winter kW Reduction	0.10	0.10	9,517.96	10,212.77
Annual kWh Reduction	469	495	46,988,641	49,620,005

Annual Demand and Energy Savings, Note 1

Participants 100,189

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	7,213.61	7,740.20
Winter kW Reduction	9,517.96	10,212.77
Annual kWh Reduction	46,988,641	49,620,005

Utility Cost per Installation ($):	4
Total Program Cost of the Utility ($000):	401.6
Net Benefits of Measures Installed During Reporting Period ($000):	201.5

Note 1: Demand and energy savings not included in achievements

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL RCS AUDIT (Computer Assisted - Paid)
Program Start Date: January 1981
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	628,392	628,392	0	0	0.0%	5	5	0.0%	5
2016	640,090	640,090	4	4	0.0%	9	14	0.0%	10
2017	651,770	651,770	10	14	0.0%	4	18	0.0%	4
2018	662,917	662,917	10	24	0.0%	2	20	0.0%	(4)
2019	677,922	677,922	1	25	0.0%	1	21	0.0%	(4)
2020	691,719	691,719	1	26	0.0%	0	21	0.0%	(5)
2021	704,770	704,770	1	27	0.0%	0	21	0.0%	(6)
2022	721,172	721,172	4	31	0.0%	2	23	0.0%	(8)
2023	736,127	736,127	4	35	0.0%	5	28	0.0%	(7)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 5

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.10	0.10	0.48	0.52
Winter kW Reduction	0.13	0.14	0.64	0.68
Annual kWh Reduction	625	660	3,125	3,300

Annual Demand and Energy Savings, Note 1

Participants 5

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	0.48	0.52
Winter kW Reduction	0.64	0.68
Annual kWh Reduction	3,125	3,300

Utility Cost per Installation ($):	685
Total Program Cost of the Utility ($000):	3.4
Net Benefits of Measures Installed During Reporting Period ($000):	(1.3)

Note 1: Demand and energy savings not included in achievements

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL CEILING INSULATION
Program Start Date: November 1982
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	628,392	494,802	7,200	7,200	1.5%	3,057	3,057	0.6%	(4,143)
2016	640,090	491,745	2,760	9,960	2.0%	1,293	4,350	0.9%	(5,610)
2017	651,770	490,452	1,255	11,215	2.3%	945	5,295	1.1%	(5,920)
2018	662,917	489,507	1,300	12,515	2.6%	594	5,889	1.2%	(6,626)
2019	677,922	488,913	550	13,065	2.7%	595	6,484	1.3%	(6,581)
2020	691,719	488,318	450	13,515	2.8%	265	6,749	1.4%	(6,766)
2021	704,770	488,053	400	13,915	2.9%	382	7,131	1.5%	(6,784)
2022	721,172	487,671	475	14,390	3.0%	425	7,556	1.5%	(6,834)
2023	736,127	487,246	480	14,870	3.1%	480	8,036	1.6%	(6,834)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 480

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.32	0.35	154.56	165.84
Winter kW Reduction	0.42	0.45	203.52	218.38
Annual kWh Reduction	673	711	323,040	341,130

Annual Demand and Energy Savings

Participants 480

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	154.56	165.84
Winter kW Reduction	203.52	218.38
Annual kWh Reduction	323,040	341,130

Utility Cost per Installation ($):	391
Total Program Cost of the Utility ($000):	187.6
Net Benefits of Measures Installed During Reporting Period ($000):	51.0

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL DUCT REPAIR
Program Start Date: September 1992
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	628,392	480,750	1,680	1,680	0.3%	1,895	1,895	0.4%	215
2016	640,090	478,855	2,040	3,720	0.8%	1,293	3,188	0.7%	(532)
2017	651,770	477,562	1,530	5,250	1.1%	1,176	4,364	0.9%	(886)
2018	662,917	476,386	1,300	6,550	1.4%	1,997	6,361	1.3%	(189)
2019	677,922	474,389	1,000	7,550	1.6%	1,078	7,439	1.6%	(111)
2020	691,719	473,311	500	8,050	1.7%	251	7,690	1.6%	(360)
2021	704,770	473,060	385	8,435	1.8%	267	7,957	1.7%	(478)
2022	721,172	472,793	300	8,735	1.8%	420	8,377	1.8%	(358)
2023	736,127	472,373	400	9,135	1.9%	315	8,692	1.8%	(443)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 315

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.20	0.21	62.69	67.26
Winter kW Reduction	0.33	0.36	104.90	112.55
Annual kWh Reduction	696	735	219,240	231,517

Annual Demand and Energy Savings

Participants 315

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	62.69	67.26
Winter kW Reduction	104.90	112.55
Annual kWh Reduction	219,240	231,517

Utility Cost per Installation ($):	218
Total Program Cost of the Utility ($000):	68.7
Net Benefits of Measures Installed During Reporting Period ($000):	25.4

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: ENERGY AND RENEWABLE EDUCATION, AWARENESS AND AGENCY OUTREACH
Program Start Date: May 2011
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	628,392	628,392	2,000	2,000	0.3%	1,412	1,412	0.2%	(588)
2016	640,090	640,090	2,000	4,000	0.6%	461	1,873	0.3%	(2,127)
2017	651,770	651,770	500	4,500	0.7%	975	2,848	0.4%	(1,652)
2018	662,917	662,917	750	5,250	0.8%	806	3,654	0.6%	(1,596)
2019	677,922	677,922	700	5,950	0.9%	1,304	4,958	0.7%	(992)
2020	691,719	691,719	750	6,700	1.0%	445	5,403	0.8%	(1,297)
2021	704,770	704,770	1,400	8,100	1.1%	810	6,213	0.9%	(1,887)
2022	721,172	721,172	2,200	10,300	1.4%	2,488	8,701	1.2%	(1,599)
2023	736,127	736,127	2,000	12,300	1.7%	2,401	11,102	1.5%	(1,198)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan Participants 2,401

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.04	0.04	98.44	105.63
Winter kW Reduction	0.05	0.05	120.05	128.81
Annual kWh Reduction	366	386	878,766	927,977

Annual Demand and Energy Savings Participants 2,401

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	98.44	105.63
Winter kW Reduction	120.05	128.81
Annual kWh Reduction	878,766	927,977

Utility Cost per Installation ($):	110
Total Program Cost of the Utility ($000):	264.9
Net Benefits of Measures Installed During Reporting Period ($000):	(290.7)

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: ENERGY STAR for NEW MULTI-FAMILY RESIDENCES
Program Start Date: June 2017
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	0	0	0	0	0.0%	0	0	0.0%	0
2016	0	0	0	0	0.0%	0	0	0.0%	0
2017	201,074	3,820	600	600	15.7%	0	0	0.0%	(600)
2018	207,026	5,952	600	1,200	20.2%	0	0	0.0%	(1,200)
2019	210,907	3,881	250	1,450	37.4%	264	264	6.8%	(1,186)
2020	215,519	4,612	0	1,450	31.4%	0	264	5.7%	(1,186)
2021	236,621	6,025	0	1,450	24.1%	0	264	4.4%	(1,186)
2022	243,555	6,893	0	1,450	21.0%	0	264	3.8%	(1,186)
2023	247,955	5,207	0	1,450	27.8%	0	264	5.1%	(1,186)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 0

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.44	0.47	0.00	0.00
Winter kW Reduction	0.30	0.32	0.00	0.00
Annual kWh Reduction	1,460	1,542	0	0

Annual Demand and Energy Savings

Participants 0

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	0	0

Utility Cost per Installation ($):	0
Total Program Cost of the Utility ($000):	0.0
Net Benefits of Measures Installed During Reporting Period ($000):	1.2

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: ENERGY STAR for NEW HOMES (formerly RESIDENTIAL NEW CONSTRUCTION)
Program Start Date: Closed New Construction and opened ENERGY STAR November 2015
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	628,392	4,361	2,400	2,400	55.0%	2,494	2,494	57.2%	94
2016	640,090	3,870	1,200	3,600	93.0%	403	2,897	74.9%	(703)
2017	651,770	2,953	1,000	4,600	155.8%	640	3,537	119.8%	(1,063)
2018	662,917	9,544	1,000	5,600	58.7%	823	4,360	45.7%	(1,240)
2019	677,922	9,929	1,000	6,600	66.5%	849	5,209	52.5%	(1,391)
2020	691,719	9,798	1,000	7,600	77.6%	858	6,067	61.9%	(1,533)
2021	704,770	9,931	1,160	8,760	88.2%	1,006	7,073	71.2%	(1,687)
2022	721,172	8,706	720	9,480	108.9%	708	7,781	89.4%	(1,699)
2023	736,127	7,699	600	10,080	130.9%	770	8,551	111.1%	(1,529)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 770

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.98	2.12	1,524.60	1,635.90
Winter kW Reduction	0.60	0.64	462.77	496.55
Annual kWh Reduction	5,378	5,679	4,141,060	4,372,959

Annual Demand and Energy Savings

Participants 770

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	1,524.60	1,635.90
Winter kW Reduction	462.77	496.55
Annual kWh Reduction	4,141,060	4,372,959

Utility Cost per Installation ($):	1,025
Total Program Cost of the Utility ($000):	789.4
Net Benefits of Measures Installed During Reporting Period ($000):	2,009.9

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: ENERGY STAR POOL PUMPS
Program Start Date: November 2020
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015									
2016									
2017									
2018									
2019				Program was started on November 2, 2020					
2020	691,719	480,812	3	3	0.0%	10	10	0.0%	7
2021	704,770	489,251	510	513	0.1%	628	638	0.1%	125
2022	721,172	484,551	900	1,413	0.3%	1,193	1,831	0.4%	418
2023	736,127	492,572	1,150	2,563	0.5%	1,460	3,291	0.7%	728
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 1,460

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.72	1.84	2,508.28	2,691.38
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	3,162	3,339	4,616,520	4,875,045

Annual Demand and Energy Savings

Participants 1,460

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	2,508.28	2,691.38
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	4,616,520	4,875,045

Utility Cost per Installation ($):	367
Total Program Cost of the Utility ($000):	536.4
Net Benefits of Measures Installed During Reporting Period ($000):	158.0

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: ENERGY STAR THERMOSTATS
Program Start Date: November 2020
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015									
2016									
2017									
2018									
2019				Program was started on November 2, 2020					
2020	691,719	691,719	5	5	0.0%	42	42	0.0%	37
2021	704,770	704,770	1,000	1,005	0.1%	950	992	0.1%	(13)
2022	721,172	721,172	1,040	2,045	0.3%	1,403	2,395	0.3%	350
2023	736,127	736,127	1,300	3,345	0.5%	1,505	3,900	0.5%	555
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 1,505

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.24	0.25	355.18	381.11
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	262	277	394,310	416,391

Annual Demand and Energy Savings

Participants 1,505

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	355.18	381.11
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	394,310	416,391

Utility Cost per Installation ($):	78
Total Program Cost of the Utility ($000):	117.4
Net Benefits of Measures Installed During Reporting Period ($000):	53.7

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL HEATING AND COOLING
Program Start Date: July 2000
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	628,392	628,392	3,840	3,840	0.6%	5,214	5,214	0.8%	1,374
2016	640,090	640,090	3,480	7,320	1.1%	3,693	8,907	1.4%	1,587
2017	651,770	651,770	4,200	11,520	1.8%	3,341	12,248	1.9%	728
2018	662,917	662,917	4,000	15,520	2.3%	3,371	15,619	2.4%	99
2019	677,922	677,922	3,500	19,020	2.8%	3,638	19,257	2.8%	237
2020	691,719	691,719	3,400	22,420	3.2%	3,578	22,835	3.3%	415
2021	704,770	704,770	3,230	25,650	3.6%	2,839	25,674	3.6%	24
2022	721,172	721,172	2,930	28,580	4.0%	2,643	28,317	3.9%	(263)
2023	736,127	736,127	1,800	30,380	4.1%	1,681	29,998	4.1%	(382)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 1,681

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.20	0.21	327.80	351.72
Winter kW Reduction	0.21	0.22	347.97	373.37
Annual kWh Reduction	394	416	662,314	699,404

Annual Demand and Energy Savings

Participants 1,681

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	327.80	351.72
Winter kW Reduction	347.97	373.37
Annual kWh Reduction	662,314	699,404

Utility Cost per Installation ($):	175
Total Program Cost of the Utility ($000):	294.7
Net Benefits of Measures Installed During Reporting Period ($000):	35.6

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: NEIGHBORHOOD WEATHERIZATION
Program Start Date: March 2008
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	628,392	109,703	6,600	6,600	6.0%	7,912	7,912	7.2%	1,312
2016	640,090	111,745	7,250	13,850	12.4%	5,495	13,407	12.0%	(443)
2017	651,770	113,784	6,250	20,100	17.7%	6,550	19,957	17.5%	(143)
2018	662,917	115,730	7,000	27,100	23.4%	7,389	27,346	23.6%	246
2019	677,922	118,350	7,000	34,100	28.8%	6,740	34,086	28.8%	(14)
2020	691,719	120,758	6,500	40,600	33.6%	1,760	35,846	29.7%	(4,754)
2021	704,770	123,037	6,050	46,650	37.9%	2,923	38,769	31.5%	(7,881)
2022	721,172	125,900	7,940	54,590	43.4%	9,159	47,928	38.1%	(6,662)
2023	736,127	128,511	7,800	62,390	48.5%	8,258	56,186	43.7%	(6,204)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 8,258

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.53	0.57	4,409.77	4,731.69
Winter kW Reduction	0.64	0.69	5,309.89	5,697.52
Annual kWh Reduction	1,932	2,040	15,954,456	16,847,906

Annual Demand and Energy Savings

Participants 8,258

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	4,409.77	4,731.69
Winter kW Reduction	5,309.89	5,697.52
Annual kWh Reduction	15,954,456	16,847,906

Utility Cost per Installation ($):	253
Total Program Cost of the Utility ($000):	2,087.1
Net Benefits of Measures Installed During Reporting Period ($000):	(10,229.3)

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: ENERGY PLANNER
Program Start Date: September 2007
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	628,392	628,392	1,000	1,000	0.2%	1,088	1,088	0.2%	88
2016	640,090	640,090	1,000	2,000	0.3%	910	1,998	0.3%	(2)
2017	651,770	651,770	1,000	3,000	0.5%	574	2,572	0.4%	(428)
2018	662,917	662,917	1,000	4,000	0.6%	747	3,319	0.5%	(681)
2019	677,922	677,922	1,250	5,250	0.8%	897	4,216	0.6%	(1,034)
2020	691,719	691,719	750	6,000	0.9%	138	4,354	0.6%	(1,646)
2021	704,770	704,770	900	6,900	1.0%	98	4,452	0.6%	(2,448)
2022	721,172	721,172	650	7,550	1.0%	341	4,793	0.7%	(2,757)
2023	736,127	736,127	700	8,250	1.1%	480	5,273	0.7%	(2,977)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 480

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	2.01	2.15	963.36	1,033.69
Winter kW Reduction	3.13	3.36	1,504.32	1,614.14
Annual kWh Reduction	1,156	1,221	554,880	585,953

Annual Demand and Energy Savings, Note 1

Participants 480

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	963.36	1,033.69
Winter kW Reduction	1,504.32	1,614.14
Annual kWh Reduction	554,880	585,953

Utility Cost per Installation ($) Note 1: 719
Total Program Cost of the Utility ($000): 2,960.6
Net Benefits of Measures Installed During Reporting Period ($000): 3,171.8
Note 1: Utility costs based upon total program costs and total participation

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL PRIME TIME PLUS (Residential Load Management)
Program Start Date: November 2020
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015									
2016									
2017									
2018									
2019				Program was started on November 2, 2020					
2020									
2021				First customer was brought onto Program in December 2022					
2022	721,172	721,172	15	15	0.0%	1	1	0.0%	(14)
2023	736,127	736,127	450	465	0.1%	537	538	0.1%	73
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan Participants 537

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.93	2.07	1,038.02	1,113.80
Winter kW Reduction	1.89	2.03	1,014.93	1,089.02
Annual kWh Reduction	0	0	0	0

Annual Demand and Energy Savings, Note 1 Participants 537

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	1,038.02	1,113.80
Winter kW Reduction	1,014.93	1,089.02
Annual kWh Reduction	0	0

Utility Cost per Installation ($) Note 1: 2,649
Total Program Cost of the Utility ($000): 1,425.0
Net Benefits of Measures Installed During Reporting Period ($000): 20.4
Note 1: Utility costs based upon total program costs and total participation

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL WINDOW REPLACEMENT
Program Start Date: March 2008
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	628,392	619,895	1,608	1,608	0.3%	1,811	1,811	0.3%	203
2016	640,090	629,783	1,584	3,192	0.5%	1,417	3,228	0.5%	36
2017	651,770	640,046	1,800	4,992	0.8%	1,482	4,710	0.7%	(282)
2018	662,917	649,710	1,600	6,592	1.0%	1,817	6,527	1.0%	(65)
2019	677,922	662,898	1,800	8,392	1.3%	1,878	8,405	1.3%	13
2020	691,719	674,817	1,775	10,167	1.5%	1,875	10,280	1.5%	113
2021	704,770	685,993	1,400	11,567	1.7%	1,176	11,456	1.7%	(111)
2022	721,172	701,219	1,100	12,667	1.8%	1,051	12,507	1.8%	(160)
2023	736,127	715,123	1,350	14,017	2.0%	1,236	13,743	1.9%	(274)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

	Per Installation		Participants Program Total 1,236	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.13	0.14	165.62	177.71
Winter kW Reduction	0.41	0.44	511.70	549.06
Annual kWh Reduction	235	248	290,460	306,726

Annual Demand and Energy Savings

	Participants Program Total 1,236	
	@ Meter	@ Generator
Summer kW Reduction	165.62	177.71
Winter kW Reduction	511.70	549.06
Annual kWh Reduction	290,460	306,726

Utility Cost per Installation ($):	202
Total Program Cost of the Utility ($000):	250.2
Net Benefits of Measures Installed During Reporting Period ($000):	52.9

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: FREE COMMERCIAL/INDUSTRIAL AUDIT
Program Start Date: July 1983
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	80,277	80,277	888	888	1.1%	913	913	1.1%	25
2016	80,875	80,875	860	1,748	2.2%	764	1,677	2.1%	(71)
2017	81,532	81,532	870	2,618	3.2%	1,211	2,888	3.5%	270
2018	81,740	81,740	1,200	3,818	4.7%	797	3,685	4.5%	(133)
2019	82,359	82,359	800	4,618	5.6%	866	4,551	5.5%	(67)
2020	83,332	83,332	500	5,118	6.1%	238	4,789	5.7%	(329)
2021	84,093	84,093	400	5,518	6.6%	101	4,890	5.8%	(628)
2022	89,415	89,415	700	6,218	7.0%	766	5,656	6.3%	(562)
2023	90,567	90,567	950	7,168	7.9%	976	6,632	7.3%	(536)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

	Per Installation		Participants 976 Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.09	0.10	90.77	97.12
Winter kW Reduction	0.09	0.10	91.74	98.17
Annual kWh Reduction	817	859	797,392	838,856

Annual Demand and Energy Savings, Note 1

	Participants 976 Program Total	
	@ Meter	@ Generator
Summer kW Reduction	90.77	97.12
Winter kW Reduction	91.74	98.17
Annual kWh Reduction	797,392	838,856

Utility Cost per Installation ($):	573
Total Program Cost of the Utility ($000):	559.5
Net Benefits of Measures Installed During Reporting Period ($000):	(145.0)

Note 1: Demand and energy savings not included in achievements

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMPREHENSIVE COMMERCIAL/INDUSTRIAL AUDIT
Program Start Date: May 1981
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	80,277	80,277	6	6	0.0%	1	1	0.0%	(5)
2016	80,875	80,875	10	16	0.0%	4	5	0.0%	(11)
2017	81,532	81,532	8	24	0.0%	0	5	0.0%	(19)
2018	81,740	81,740	4	28	0.0%	1	6	0.0%	(22)
2019	82,359	82,359	2	30	0.0%	1	7	0.0%	(23)
2020	83,332	83,332	1	31	0.0%	0	7	0.0%	(24)
2021	84,093	84,093	1	32	0.0%	0	7	0.0%	(25)
2022	89,415	89,415	1	33	0.0%	0	7	0.0%	(26)
2023	90,567	90,567	1	34	0.0%	0	7	0.0%	(27)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan Participants 0

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.09	0.10	0.00	0.00
Winter kW Reduction	0.09	0.10	0.00	0.00
Annual kWh Reduction	817	859	0	0

Annual Demand and Energy Savings, Note 1 Participants 0

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	0	0

Utility Cost per Installation ($): 0
Total Program Cost of the Utility ($000): 0.0
Net Benefits of Measures Installed During Reporting Period ($000): (1.6)
Note 1: Demand and energy savings not included in achievements

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL CHILLERS
Program Start Date: March 2008
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	80,277	7,733	10	10	0.1%	7	7	0.1%	(3)
2016	80,875	8,851	10	20	0.2%	5	12	0.1%	(8)
2017	81,532	8,887	11	31	0.3%	7	19	0.2%	(12)
2018	81,740	9,023	8	39	0.4%	1	20	0.2%	(19)
2019	82,359	9,119	9	48	0.5%	5	25	0.3%	(23)
2020	83,332	9,089	2	50	0.6%	1	26	0.3%	(24)
2021	84,093	9,174	1	51	0.6%	0	26	0.3%	(25)
2022	89,415	9,365	3	54	0.6%	0	26	0.3%	(28)
2023	90,567	9,831	6	60	0.6%	3	29	0.3%	(31)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 3

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	6.16	6.59	18.49	19.78
Winter kW Reduction	2.48	2.65	7.43	7.94
Annual kWh Reduction	17,863	18,792	53,589	56,376

Annual Demand and Energy Savings, Note 1

Participants 3

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	18.49	19.78
Winter kW Reduction	7.43	7.94
Annual kWh Reduction	53,589	56,376

Utility Cost per Installation ($):	2,071
Total Program Cost of the Utility ($000):	6.2
Net Benefits of Measures Installed During Reporting Period ($000):	3.9

Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: CONSERVATION VALUE
Program Start Date: April 1991
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	80,277	80,277	4	4	0.0%	4	4	0.0%	0
2016	80,875	80,875	4	8	0.0%	2	6	0.0%	(2)
2017	81,532	81,532	3	11	0.0%	0	6	0.0%	(5)
2018	81,740	81,740	2	13	0.0%	0	6	0.0%	(7)
2019	82,359	82,359	1	14	0.0%	0	6	0.0%	(8)
2020	83,332	83,332	1	15	0.0%	0	6	0.0%	(9)
2021	84,093	84,093	0	15	0.0%	0	6	0.0%	(9)
2022	89,415	89,415	1	16	0.0%	0	6	0.0%	(10)
2023	90,567	90,567	1	17	0.0%	0	6	0.0%	(11)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan Participants 0

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	185.40	198.38	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	19,244	20,245	0	0

Annual Demand and Energy Savings, Note 1 Participants 0

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	0	0

Utility Cost per Installation ($): 0
Total Program Cost of the Utility ($000): 0.0
Net Benefits of Measures Installed During Reporting Period ($000): 0.4
Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL COOLING - DX
Program Start Date: July 2000
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	80,277	80,277	127	127	0.2%	234	234	0.3%	107
2016	80,875	80,875	130	257	0.3%	9	243	0.3%	(14)
2017	81,532	81,532	16	273	0.3%	0	243	0.3%	(30)
2018	81,740	81,740	5	278	0.3%	25	268	0.3%	(10)
2019	82,359	82,359	5	283	0.3%	15	283	0.3%	0
2020	83,332	83,332	15	298	0.4%	14	297	0.4%	(1)
2021	84,093	84,093	15	313	0.4%	44	341	0.4%	28
2022	89,415	89,415	40	353	0.4%	56	397	0.4%	44
2023	90,567	90,567	80	433	0.5%	174	571	0.6%	138
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan Participants 174

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.98	1.05	170.52	182.46
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	1,717	1,806	298,758	314,293

Annual Demand and Energy Savings, Note 1 Participants 174

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	170.52	182.46
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	298,758	314,293

Utility Cost per Installation ($):	198
Total Program Cost of the Utility ($000):	34.4
Net Benefits of Measures Installed During Reporting Period ($000):	1.1

Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL DEMAND RESPONSE
Program Start Date: March 2008
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	80,277	12,302	1	1	0.0%	4	4	0.0%	3
2016	80,875	12,937	1	2	0.0%	0	4	0.0%	2
2017	81,532	13,383	1	3	0.0%	0	4	0.0%	1
2018	81,740	13,730	1	4	0.0%	1	5	0.0%	1
2019	82,359	13,804	1	5	0.0%	0	5	0.0%	0
2020	83,332	14,079	1	6	0.0%	0	5	0.0%	(1)
2021	84,093	14,561	1	7	0.0%	0	5	0.0%	(2)
2022	89,415	15,066	1	8	0.1%	0	5	0.0%	(3)
2023	90,567	15,294	1	9	0.1%	0	5	0.0%	(4)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan Participants 0

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	404.04	432.32	0.00	0.00
Winter kW Reduction	404.04	432.32	0.00	0.00
Annual kWh Reduction	30,298	31,873	0	0

Annual Demand and Energy Savings, Note 1 Participants 0

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	0	0

Utility Cost per Installation ($), Note 2: 37,377
Total Program Cost of the Utility ($000): 3,849.9
Net Benefits of Measures Installed During Reporting Period ($000): 278.9
Note 1: Savings from measured data
Note 2: Utility costs based upon total program costs and total participation

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: FACILITY ENERGY MANAGEMENT SYSTEM
Program Start Date: November 2020
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015									
2016									
2017									
2018									
2019				Program was started on November 2, 2020					
2020	83,332	83,332	2	2	0.0%	0	0	0.0%	(2)
2021	84,093	84,093	2	4	0.0%	2	2	200.0%	(2)
2022	89,415	89,415	4	8	0.0%	2	4	400.0%	(4)
2023	90,567	90,567	60	68	0.1%	26	30	3000.0%	(38)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan Participants 26

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	15.64	16.73	406.64	435.10
Winter kW Reduction	2.32	2.48	60.32	64.54
Annual kWh Reduction	607,467	639,055	15,794,142	16,615,437

Annual Demand and Energy Savings, Note 1 Participants 26

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	406.64	435.10
Winter kW Reduction	60.32	64.54
Annual kWh Reduction	15,794,142	16,615,437

Utility Cost per Installation ($):	23,857
Total Program Cost of the Utility ($000):	620.3
Net Benefits of Measures Installed During Reporting Period ($000):	43.5

Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: INDUSTRIAL LOAD MANAGEMENT
Program Start Date: September 1999
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
#REF!	79,457	820	0	0	0.0%	0	0	0.0%	0
2016	80,875	848	0	0	0.0%	0	0	0.0%	0
2017	81,532	816	0	0	0.0%	0	0	0.0%	0
2018	81,740	954	0	0	0.0%	1	1	0.1%	1
2019	82,359	981	0	0	0.0%	1	2	0.2%	2
2020	83,332	840	1	1	0.1%	1	3	0.4%	2
2021	84,093	850	0	1	0.1%	0	3	0.4%	2
2022	89,415	856	0	1	0.1%	0	3	0.4%	2
2023	90,567	839	0	1	0.1%	0	3	0.4%	2
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

	Per Installation		Participants 0 Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	5,060.00	5,414.20	0.00	0.00
Winter kW Reduction	4,757.00	5,089.99	0.00	0.00
Annual kWh Reduction	1,184,085	1,245,657	0	0

Annual Demand and Energy Savings, Note 1

	Participants 0 Program Total	
	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	0	0

Utility Cost per Installation ($), Note 2:	784,878
Total Program Cost of the Utility ($000):	22,761.4
Net Benefits of Measures Installed During Reporting Period ($000):	1,186.0

Note 1: Savings from measured data
Note 2: Utility costs based upon total program costs and total participation

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL STREET AND OUTDOOR LIGHTING CONVERSION
Program Start Date: February 2018
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015									
2016									
2017					Program was started in February 2018				
2018	209,821	209,821	42,115	42,115	20.1%	31,936	31,936	15.2%	(10,179)
2019	209,821	177,885	40,000	82,115	46.2%	32,366	64,302	36.1%	(17,813)
2020	209,821	145,519	40,000	122,115	83.9%	25,469	89,771	61.7%	(32,344)
2021	209,821	120,050	24,000	146,115	121.7%	69,231	159,002	132.4%	12,887
2022	209,821	50,819	50,819	196,934	387.5%	41,992	200,994	395.5%	4,060
2023	209,821	8,827	8,827	205,761	2331.0%	8,827	209,821	2377.0%	4,060
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan Participants 8,827

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.13	0.14	1,173.99	1,256.17
Annual kWh Reduction	576	606	5,084,352	5,348,738

Annual Demand and Energy Savings, Note 1 Participants 8,827

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00
Winter kW Reduction	1,173.99	1,256.17
Annual kWh Reduction	5,084,352	5,348,738

Utility Cost per Installation ($): 1
Total Program Cost of the Utility ($000): 12.6
Net Benefits of Measures Installed During Reporting Period ($000): 13,420.0
Note 1: Demand and energy savings not included in achievements

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL LIGHTING - CONDITIONED SPACE
Program Start Date: January 1991
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	80,277	80,277	6	6	0.0%	86	86	0.1%	80
2016	80,875	80,875	57	63	0.1%	159	245	0.3%	182
2017	81,532	81,532	75	138	0.2%	228	473	0.6%	335
2018	81,740	81,740	110	248	0.3%	193	666	0.8%	418
2019	82,359	82,359	475	723	0.9%	421	1,087	1.3%	364
2020	83,332	83,332	200	923	1.1%	186	1,273	1.5%	350
2021	84,093	84,093	150	1,073	1.3%	143	1,416	1.7%	343
2022	89,415	89,415	115	1,188	1.3%	131	1,547	1.7%	359
2023	90,567	90,567	115	1,303	1.4%	79	1,626	1.8%	323
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

	Participants		79	
	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	15.51	16.60	1,225.29	1,311.06
Winter kW Reduction	12.08	12.93	954.32	1,021.12
Annual kWh Reduction	76,757	80,748	6,063,803	6,379,121

Annual Demand and Energy Savings, Note 1

	Participants	79
	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	1,225.29	1,311.06
Winter kW Reduction	954.32	1,021.12
Annual kWh Reduction	6,063,803	6,379,121

Utility Cost per Installation ($):	3,846
Total Program Cost of the Utility ($000):	303.8
Net Benefits of Measures Installed During Reporting Period ($000):	4,233.6

Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL LIGHTING - UNCONDITIONED SPACE
Program Start Date: March 2008
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	80,277	80,277	2	2	0.0%	16	16	0.0%	14
2016	80,875	80,875	13	15	0.0%	60	76	0.1%	61
2017	81,532	81,532	50	65	0.1%	338	414	0.5%	349
2018	81,740	81,740	50	115	0.1%	246	660	0.8%	545
2019	82,359	82,359	200	315	0.4%	132	792	1.0%	477
2020	83,332	83,332	70	385	0.5%	93	885	1.1%	500
2021	84,093	84,093	115	500	0.6%	101	986	1.2%	486
2022	89,415	89,415	85	585	0.7%	100	1,086	1.2%	501
2023	90,567	90,567	50	635	0.7%	38	1,124	1.2%	489
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 38

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	23.83	25.50	905.54	968.93
Winter kW Reduction	23.83	25.50	905.54	968.93
Annual kWh Reduction	138,004	145,180	5,244,152	5,516,848

Annual Demand and Energy Savings, Note 1

Participants 38

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	905.54	968.93
Winter kW Reduction	905.54	968.93
Annual kWh Reduction	5,244,152	5,516,848

Utility Cost per Installation ($): 5,927
Total Program Cost of the Utility ($000): 225.2
Net Benefits of Measures Installed During Reporting Period ($000): 3,089.0
Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL OCCUPANCY SENSORS
Program Start Date: March 2008
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	80,277	80,277	20	20	0.0%	2	2	0.0%	(18)
2016	80,875	80,875	15	35	0.0%	12	14	0.0%	(21)
2017	81,532	81,532	15	50	0.1%	4	18	0.0%	(32)
2018	81,740	81,740	12	62	0.1%	7	25	0.0%	(37)
2019	82,359	82,359	5	67	0.1%	3	28	0.0%	(39)
2020	83,332	83,332	6	73	0.1%	4	32	0.0%	(41)
2021	84,093	84,093	7	80	0.1%	4	36	0.0%	(44)
2022	89,415	89,415	7	87	0.1%	3	39	0.0%	(48)
2023	90,567	90,567	7	94	0.1%	6	45	0.0%	(49)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan Participants 6

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	39.29	42.04	235.74	252.24
Winter kW Reduction	31.43	33.63	188.58	201.78
Annual kWh Reduction	98,486	103,607	590,916	621,644

Annual Demand and Energy Savings, Note 1 Participants 6

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	235.74	252.24
Winter kW Reduction	188.58	201.78
Annual kWh Reduction	590,916	621,644

Utility Cost per Installation ($):	4,995
Total Program Cost of the Utility ($000):	30.0
Net Benefits of Measures Installed During Reporting Period ($000):	23.3

Note 1: Savings from measured data

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL LOAD MANAGEMENT- CYCLIC
Program Start Date: January 1988
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	80,277	80,277	0	0	0.0%	0	0	0.0%	0
2016	80,875	80,875	0	0	0.0%	0	0	0.0%	0
2017	81,532	81,532	0	0	0.0%	0	0	0.0%	0
2018	81,740	81,740	0	0	0.0%	0	0	0.0%	0
2019	82,359	82,359	0	0	0.0%	0	0	0.0%	0
2020	83,332	83,332	0	0	0.0%	0	0	0.0%	0
2021	84,093	84,093	0	0	0.0%	0	0	0.0%	0
2022	89,415	89,415	0	0	0.0%	0	0	0.0%	0
2023	90,567	90,567	0	0	0.0%	0	0	0.0%	0
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan Participants 0

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	13.20	14.12	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

Annual Demand and Energy Savings, Note 1 Participants 0

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	0	0

Utility Cost per Installation ($), Note 1: 2,177
Total Program Cost of the Utility ($000): 6.5
Net Benefits of Measures Installed During Reporting Period ($000): 0.0
Note 1: Utility costs based upon total program costs and total participation

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL LOAD MANAGEMENT- EXTENDED
Program Start Date: January 1988
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	80,277	80,277	0	0	0.0%	0	0	0.0%	0
2016	80,875	80,875	0	0	0.0%	0	0	0.0%	0
2017	81,532	81,532	0	0	0.0%	0	0	0.0%	0
2018	81,740	81,740	0	0	0.0%	0	0	0.0%	0
2019	82,359	82,359	0	0	0.0%	0	0	0.0%	0
2020	83,332	83,332	0	0	0.0%	0	0	0.0%	0
2021	84,093	84,093	0	0	0.0%	0	0	0.0%	0
2022	89,415	89,415	0	0	0.0%	0	0	0.0%	0
2023	90,567	90,567	0	0	0.0%	0	0	0.0%	0
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 0

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	92.00	98.44	0.00	0.00
Winter kW Reduction	60.00	64.20	0.00	0.00
Annual kWh Reduction	0	0	0	0

Annual Demand and Energy Savings

Participants 0

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	0	0

Utility Cost per Installation ($):	0
Total Program Cost of the Utility ($000):	0.0
Net Benefits of Measures Installed During Reporting Period ($000):	0.0

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL SMART THERMOSTATS
Program Start Date: November 2020
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015									
2016									
2017									
2018									
2019				Program was started on November 2, 2020					
2020	83,332	83,332	5	5	0.0%	0	0	0.0%	(5)
2021	84,093	84,093	50	55	0.1%	2	2	0.0%	(53)
2022	89,415	89,415	180	235	0.3%	137	139	0.2%	(96)
2023	90,567	90,567	15	250	0.3%	7	146	0.2%	(104)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

	Per Installation		Participants 7 Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	11.13	11.91	77.91	83.36
Winter kW Reduction	4.06	4.34	28.42	30.41
Annual kWh Reduction	14,600	15,359	102,200	107,514

Annual Demand and Energy Savings

	Participants 7 Program Total	
	@ Meter	@ Generator
Summer kW Reduction	77.91	83.36
Winter kW Reduction	28.42	30.41
Annual kWh Reduction	102,200	107,514

Utility Cost per Installation ($):	3,600
Total Program Cost of the Utility ($000):	25.2
Net Benefits of Measures Installed During Reporting Period ($000):	80.3

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: STANDBY GENERATOR
Program Start Date: January 1991
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	80,277	2,304	0	0	0.0%	4	4	0.2%	4
2016	80,875	2,449	1	1	0.0%	0	4	0.2%	3
2017	81,532	2,430	1	2	0.1%	6	10	0.4%	8
2018	81,740	2,486	1	3	0.1%	1	11	0.4%	8
2019	82,359	2,608	7	10	0.4%	9	20	0.8%	10
2020	83,332	2,490	6	16	0.6%	14	34	1.4%	18
2021	84,093	2,515	5	21	0.8%	6	40	1.6%	19
2022	89,415	2,527	10	31	1.2%	2	42	1.7%	11
2023	90,567	2,585	13	44	1.7%	17	59	2.3%	15
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

	Participants	17		
	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	263.94	282.42	4,486.98	4,801.07
Winter kW Reduction	263.94	282.42	4,486.98	4,801.07
Annual kWh Reduction	26,394	27,766	448,698	472,030

Annual Demand and Energy Savings, Note 1

	Participants	17
	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	4,486.98	4,801.07
Winter kW Reduction	4,486.98	4,801.07
Annual kWh Reduction	448,698	472,030

Utility Cost per Installation ($), Note 2:	39,645
Total Program Cost of the Utility ($000):	5,153.8
Net Benefits of Measures Installed During Reporting Period ($000):	6,188.4

Note 1: Savings from measured data
Note 2: Utility costs based upon total program costs and total participation

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: VARIABLE FREQUENCY DRIVE CONTROL FOR COMPRESSORS
Program Start Date: November 2020
Reporting Period: Annual 2023

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015									
2016									
2017									
2018									
2019				Program was started on November 2, 2020					
2020	83,332	83,332	2	2	0.0%	0	0	0.0%	(2)
2021	84,093	84,093	2	4	0.0%	1	1	0.0%	(3)
2022	89,415	89,415	7	11	0.0%	21	22	0.0%	11
2023	90,567	90,567	20	31	0.0%	16	38	0.0%	7
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

	Per Installation		Participants 16 Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	4.09	4.38	65.44	70.02
Winter kW Reduction	4.09	4.38	65.44	70.02
Annual kWh Reduction	10,251	10,784	164,016	172,545

Annual Demand and Energy Savings, Note 1

	Participants 16 Program Total	
	@ Meter	@ Generator
Summer kW Reduction	65.44	70.02
Winter kW Reduction	65.44	70.02
Annual kWh Reduction	164,016	172,545

Utility Cost per Installation ($):	1,481
Total Program Cost of the Utility ($000):	23.7
Net Benefits of Measures Installed During Reporting Period ($000):	26.8

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL WATER HEATING
Program Start Date: March 2008
Reporting Period: Annual 2020

a	b	c	d	e	f	g	h	i	j
Year	Total Number of Customers	Total Number of Eligible Customers	Total Number of Projected Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % [(e/c)x100]	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % [(h/c)x100]	Actual Participation Over (Under) Projected Participants (h-e)
2015	80,277	80,277	1	1	0.0%	0	0	0.0%	(1)
2016	80,875	80,875	1	2	0.0%	0	0	0.0%	(2)
2017	81,532	81,532	3	5	0.0%	0	0	0.0%	(5)
2018	81,740	81,740	3	8	0.0%	0	0	0.0%	(8)
2019	82,359	82,359	1	9	0.0%	0	0	0.0%	(9)
2020	83,332	83,332	0	9	0.0%	0	0	0.0%	(9)
2021	84,093	84,093	0	9	0.0%	0	0	0.0%	(9)
2022	89,415	89,415	1	10	0.0%	0	0	0.0%	(10)
2023	90,567	90,567	1	11	0.0%	0	0	0.0%	(11)
2024									

Annual Demand and Energy Savings - 2020-2029 DSM Plan

Participants 0

	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.87	0.93	0.00	0.00
Winter kW Reduction	0.58	0.62	0.00	0.00
Annual kWh Reduction	5,128	5,395	0	0

Annual Demand and Energy Savings - Combined

Participants 0

	Program Total	
	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00
Winter kW Reduction	0.00	0.00
Annual kWh Reduction	0	0

Utility Cost per Installation ($):	0
Total Program Cost of the Utility ($000):	0.1
Net Benefits of Measures Installed During Reporting Period ($000):	0.0

Comparison of Annual Achieved kW and kWh Reductions
with Public Service Commission Established Goals
Savings at the Generator

Utility: TAMPA ELECTRIC COMPANY

Residential

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance
2015	12.3	2.6	473.1%	10.8	1.1	981.8%	21.2	1.8	1,177.8%
2016	7.7	4.1	187.8%	5.1	1.6	318.8%	13.2	3.5	377.1%
2017	6.9	5.2	132.7%	4.7	2.2	213.6%	14.9	4.8	310.4%
2018	8.0	6.5	123.0%	5.6	2.7	205.7%	17.1	6.1	280.3%
2019	8.3	7.6	108.8%	5.7	3.1	184.5%	16.8	6.9	243.2%
2020	3.5	7.6	45.5%	2.6	3.3	78.2%	8.9	7.4	120.3%
2021	4.5	8.0	55.8%	6.4	3.3	194.2%	16.4	7.7	213.1%
2022	9.5	7.4	127.8%	11.1	3.0	369.8%	30.4	6.9	441.0%
2023	10.3	6.8	151.2%	12.5	2.9	429.5%	29.6	6.3	469.9%
2024									

Commercial/Industrial

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance
2015	8.1	1.2	675.0%	11.7	1.7	688.2%	12.5	3.9	320.5%
2016	2.9	1.3	223.1%	4.4	2.5	176.0%	17.8	6.0	296.7%
2017	9.2	1.6	575.0%	10.4	2.7	385.2%	30.2	8.0	377.5%
2018	13.0	1.7	767.1%	15.0	3.3	453.6%	33.7	9.2	365.9%
2019	22.4	1.6	1401.9%	29.2	3.3	885.9%	74.6	9.9	753.4%
2020	10.4	1.7	612.5%	11.8	3.5	336.0%	26.1	10.3	253.3%
2021	4.7	1.9	246.2%	5.6	3.6	156.8%	20.4	10.4	196.1%
2022	7.1	1.9	376.0%	12.3	3.3	372.2%	26.6	10.2	261.2%
2023	7.2	1.8	398.1%	8.1	3.5	232.1%	30.3	9.9	305.6%
2024									

Combined

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance
2015	20.4	3.8	536.8%	22.5	2.8	803.6%	33.7	5.7	591.2%
2016	10.6	5.4	196.3%	9.5	4.1	231.7%	31.0	9.5	326.3%
2017	16.1	6.8	236.8%	15.1	4.9	308.2%	45.1	12.8	352.3%
2018	21.0	8.2	256.5%	20.5	6.0	342.1%	50.8	15.3	331.8%
2019	30.7	9.2	333.7%	35.0	6.4	546.2%	91.4	16.8	543.9%
2020	13.9	9.3	149.1%	14.3	6.8	210.9%	35.0	17.7	197.7%
2021	9.1	9.9	92.3%	12.1	6.9	174.7%	36.8	18.1	203.3%
2022	16.6	9.3	178.5%	23.4	6.3	371.0%	57.1	17.1	333.8%
2023	17.4	8.6	202.9%	20.6	6.4	321.6%	59.9	16.2	369.5%
2024									

Comparison of Cumulative Achieved kW and kWh Reductions
with Public Service Commission Established Goals
Savings at the Generator

Utility: TAMPA ELECTRIC COMPANY

Residential

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance
2015	12.3	2.6	473.1%	10.8	1.1	981.8%	21.2	1.8	1,177.8%
2016	20.0	6.7	298.5%	15.9	2.7	588.9%	34.4	5.3	649.1%
2017	26.9	11.9	226.1%	20.6	4.9	420.4%	49.3	10.1	488.1%
2018	34.9	18.4	189.6%	26.2	7.6	344.1%	66.4	16.2	409.9%
2019	43.2	26.0	166.0%	31.9	10.7	297.9%	83.2	23.1	360.1%
2020	46.6	33.6	138.7%	34.5	14.0	246.1%	92.1	30.5	301.9%
2021	51.1	41.6	122.8%	40.9	17.3	236.2%	108.5	38.2	284.0%
2022	60.5	49.0	123.5%	52.0	20.3	256.0%	138.9	45.1	308.0%
2023	70.8	55.8	126.9%	64.4	23.2	277.6%	168.5	51.4	327.9%
2024									

Commercial/Industrial

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance
2015	8.1	1.2	675.0%	11.7	1.7	688.2%	12.5	3.9	320.5%
2016	11.0	2.5	440.0%	16.1	4.2	383.3%	30.3	9.9	306.1%
2017	20.2	4.1	492.7%	26.5	6.9	384.1%	60.5	17.9	338.0%
2018	33.2	5.8	573.1%	41.5	10.2	406.6%	94.2	27.1	347.5%
2019	55.7	7.4	752.3%	70.7	13.5	523.7%	168.7	37.0	456.1%
2020	66.1	9.1	726.2%	82.5	17.0	485.1%	194.8	47.3	411.9%
2021	70.8	11.0	643.3%	88.1	20.6	427.7%	215.2	57.7	373.0%
2022	77.9	12.9	603.9%	100.4	23.9	420.0%	241.9	67.9	356.2%
2023	85.1	14.7	578.7%	108.5	27.4	396.0%	272.1	77.8	349.8%
2024									

Combined

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance
2015	20.4	3.8	536.8%	22.5	2.8	803.6%	33.7	5.7	591.2%
2016	31.0	9.2	337.0%	32.0	6.9	463.8%	64.7	15.2	425.7%
2017	47.1	16.0	294.4%	47.1	11.8	399.2%	109.8	28.0	392.1%
2018	68.1	24.2	281.6%	67.6	17.8	379.9%	160.6	43.3	370.8%
2019	98.8	33.4	295.9%	102.6	24.2	423.9%	251.9	60.1	419.2%
2020	112.7	42.7	263.9%	116.9	31.0	377.2%	286.9	77.8	368.8%
2021	121.8	52.6	231.6%	129.0	37.9	340.3%	323.7	95.9	337.6%
2022	138.4	61.9	223.7%	152.3	44.2	344.7%	380.8	113.0	337.0%
2023	155.9	70.5	221.1%	172.9	50.6	341.8%	440.7	129.2	341.1%
2024									

21 West Church Street
Jacksonville, Florida 32202-3139

ELECTRIC

WATER

SEWER

March 01, 2024

Michael Barrett
Economic Supervisor, Conservation
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850
Phone: (850) 413-6544

Re: Demand Side Management Plan, 2024 FEECA Annual Report

Dear Mr. Barrett:

Enclosed is JEA's 2024 FEECA annual report on Demand Side Management activities.

The data confirms that JEA has exceeded its FEECA goals for 2023. The attached summary contains the relevant details.

If you have any questions, please do not hesitate to contact me at (904) 325-0780.

Sincerely,

/s/ Brian Pippin

Brian Pippin
JEA – Grid Solutions

Encl: 2024 FEECA Annual Report

JEA
2024 Demand Side Management (DSM) FEECA Annual Report

Public Service Commission (PSC) Goals

Sections 366.S0 through 366.S5, and 403.519, Florida Statutes (F.S.), are collectively known as the Florida Energy Efficiency and Conservation Act (FEECA). Section 366.82(2), (F.S.), requires the Florida PSC to adopt appropriate goals designed to increase the conservation of expensive resources, such as petroleum fuels, to reduce and control the growth rates of electric consumption and weather-sensitive peak demand.

In accordance with the FEECA sections noted above, JEA's goals were established in DOCKET NO. 20190020, ORDER NO. PSC-2019-0509-FOF-EG, ISSUED November 26, 2019.

DSM Plan 2020 – 2024

Pursuant to Sections 366.81 and 366.82, F.S., Rule 25-17.0021, Florida Administrative Code (F.A.C.), JEA petitioned the Florida PSC to approve the DSM plan filed on February 24, 2020. Subsequently, JEA's plan was approved on June 24, 2020 under docket number: 20200057.

DSM Reporting Requirements

In accordance with Section 366.82 (10), F.S., Rule 25-17.0021(5), F.A.C., each utility shall submit an annual report by March 1 of each year summarizing its DSM plan and the total actual achieved results for its approved DSM plan in the preceding calendar year.

2023 Total Actual Achieved Results

JEA exceeded all the PSC goals as established in the above-mentioned docket.

Additionally, JEA achieved additional savings from for its non-RIM (i.e., not part of FEECA) DSM programs consistent with data filed on form EIA-861 as required by the U.S. Energy Information Administration (EIA). This information has not been finalized for the filing year but will be available on the EIA website when posted. As a not-for-profit, community-owned utility, JEA will continue to review and adjust its investment in demand side programs.

JEA's DSM FEECA Portfolio

JEA's FEECA portfolio consists of three (3) residential and two (2) commercial programs as described below. Achieved kW and kWh reductions are on page 5.

A. Residential FEECA Programs

- **Residential Energy Audit Program** uses auditors to examine homes, educate customers and make recommendations on low-cost or no-cost energy-saving practices and measures.

- **Residential Solar Water Heating** pays a financial incentive to customers to encourage the use of solar water heating technology.

- **Neighborhood Efficiency Program** offers education concerning the efficient use of energy & water as well as the direct installation of an array of energy & water efficient measures at no cost to income-qualified customers.

B. Commercial FEECA Programs

- **Commercial Energy Audit Program** uses auditors to examine businesses, educate customers and make recommendations on low-cost or no-cost energy-saving practices and measures.

- **Commercial Prescriptive Lighting Program** pays a financial incentive to customers to install high efficiency lighting technology.

JEA's DSM Non-RIM Portfolio

JEA's non-RIM portfolio consists of three (3) residential and three (3) commercial programs as described below.

A. Residential Non-RIM Programs

- **Residential Efficiency Upgrade** pays a financial incentive to encourage the use of high efficiency HVAC and adequate attic insulation to drive reduced energy usage.
- **Energy Efficient Products** pays a financial incentive to encourage the use of high efficiency lighting and battery powered lawn equipment.
- **MyWay Prepaid Program** offers an option for all customers, especially those who prefer to prepay for services vs being billed monthly. It is a consumer-focused experience for environmentally conscious consumers who like to keep their consumption in mind.

B. Commercial Non-RIM Programs

- **Commercial Prescriptive Program** pays a financial incentive to encourage the use of high efficiency HVACR, cooking and water heating products and services.
- **Small Business Direct Install Program** promotes the use high efficiency HVAC, water heating, lighting, and appliances in the small business sector.
- **Custom Commercial Program** promotes the use of custom efficiency measures based on the specific application for each customer.

JEA

Comparison of Achieved kW and kWh Reductions
with Annual Target Included in Public Service Commission Approved Goals
Report Period: **2023**

Total

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance**	Total Achieved	Commission Approved Goal	% Variance**	Total Achieved	Commission Approved Goal	% Variance**
2020	2.38	0.967	145.7%	3.19	1.080	196%	10.18	2.58	294.8%
2021	2.07	0.967	114.2%	2.62	1.080	143%	6.66	2.58	158.1%
2022	2.09	0.967	115.8%	2.58	1.080	139%	6.65	2.58	157.7%
2023	2.03	0.967	109.9%	2.71	1.080	151%	8.16	2.58	216.2%
2024		0.967			1.080			2.58	

Residential

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance**	Total Achieved	Commission Approved Goal	% Variance**	Total Achieved	Commission Approved Goal	% Variance**
2020	1.79	0.960	86.9%	2.00	0.940	113%	3.94	2.50	57.7%
2021	1.83	0.960	91.0%	2.15	0.940	129%	4.20	2.50	68.0%
2022	1.83	0.960	90.7%	2.10	0.940	123%	4.11	2.50	64.3%
2023	1.60	0.960	66.2%	1.84	0.940	96%	3.61	2.50	44.2%
2024		0.960			0.940			2.50	

Commercial/Industrial

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance**	Total Achieved	Commission Approved Goal	% Variance**	Total Achieved	Commission Approved Goal	% Variance**
2020	0.58	0.007	8211%	1.19	0.140	749%	6.24	0.08	7701.9%
2021	0.24	0.007	3295%	0.47	0.140	236%	2.46	0.08	2971%
2022	0.26	0.007	3557%	0.49	0.140	249%	2.54	0.08	3075%
2023	0.43	0.007	6111%	0.87	0.140	521%	4.55	0.08	5590%
2024		0.007			0.140			0.08	

** - Variance calculated based on unrounded values

JEA Annual FEECA Report for 2024

JEA

Program Name: REA: Residential Energy Audits
Program Start Date: 1978
Reporting Period: **2023**

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/cx100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (g/c)	Actual Participation Over (Under) Projected Participants (g-d)
2020	424,939	424,939	5,200	1.2%	13,111	13,111	3.1%	7,911
2021	431,420	431,420	10,400	2.4%	11,405	24,516	5.7%	14,116
2022	437,973	437,973	15,600	3.6%	12,387	36,903	8.4%	21,303
2023	444,544	444,544	20,800	4.7%	10,504	47,407	10.7%	26,607
2024	450,901	450,901	26,000	5.8%				

Estimated Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.100	0.104	1,050.4	1,092.4
Winter kW Reduction	0.100	0.104	1,050.4	1,092.4
kWH Reduction	200	208	2,100,800.0	2,184,832.0

Utility Cost per Installation	$ 102.80
Total Program Cost of the Utility (Administration and Incentives)	$ 4,873,440

JEA Annual FEECA Report for 2024

JEA

Program Name: RSWH: Residential Solar Water Heating
Program Start Date: 2002
Reporting Period: **2023**

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/cx100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (g/c)	Actual Participation Over (Under) Projected Participants (g-d)
2020	424,939	424,939	2	0.000%	0	0	0.0%	(2)
2021	431,420	431,420	4	0.001%	0	0	0.0%	(4)
2022	437,973	437,973	6	0.001%	0	0	0.0%	(6)
2023	444,544	444,544	8	0.002%	1	1	0.0%	(7)
2024	450,901	450,901	10	0.002%				

Estimated Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.420	0.436	0.4	0.4
Winter kW Reduction	0.475	0.493	0.5	0.5
kWH Reduction	2,322	2,410	2,322.3	2,410.0

Utility Cost per Installation	$	1,130
Total Program Cost of the Utility (Administration and Incentives)	$	1,130

JEA

Program Name: NEE: Neighborhood Energy Efficiency
Program Start Date: 2008
Reporting Period: **2023**

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/cx100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (g/c)	Actual Participation Over (Under) Projected Participants (g-d)
2020	424,939	127,482	1,350	1.1%	1,122	1,122	0.9%	(228)
2021	431,420	129,426	2,700	2.1%	1,687	2,809	2.2%	109
2022	437,973	131,392	4,050	3.1%	1,413	4,222	3.2%	172
2023	444,544	133,363	5,400	4.0%	1,308	5,530	4.1%	130
2024	450,901	135,270	6,750	5.0%				

Estimated Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.55	0.571	719.4	746.9
Winter kW Reduction	0.37	0.384	484.0	502.3
kWH Reduction	1,044	1,084	1,365,552.0	1,417,872.0

Utility Cost per Installation	$ 518
Total Program Cost of the Utility (Administration and Incentives)	$ 2,865,093

JEA

Program Name: CEA: Commercial Energy Audits
Program Start Date: 1978
Reporting Period: **2023**

a	b	c	d	e	f	g	h	l
Year	Total Number of Customers	Total Number of Eligible Customers	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (d/cx100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (g/c)	Actual Participation Over (Under) Projected Participants (g-d)
2020	54,298	54,298	100	0.2%	142	142	0.3%	42
2021	54,932	54,932	200	0.4%	173	315	0.6%	115
2022	55,557	55,557	300	0.5%	320	635	1.1%	335
2023	56,173	56,173	400	0.7%	246	881	1.6%	481
2024	56,784	56,784	500	0.9%				

Estimated Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.120	0.125	29.5	30.8
Winter kW Reduction	0.120	0.125	29.5	30.8
kWH Reduction	540	562	132,840.0	138,252.0

Utility Cost per Installation	$ 221
Total Program Cost of the Utility (Administration and Incentives)	$ 194,701

JEA

Program Name: CPL: Commercial Prescriptive Lighting
Program Start Date: 2009
Reporting Period: **2023**

a	b	c	d	e	f	g	h	l
Year	Total Number of Customers	Total Number of Eligible Customers	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (d/cx100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (g/c)	Actual Participation Over (Under) Projected Participants (g-d)
2020	54,298	54,298	20	0.04%	141	141	0.26%	121
2021	54,932	54,932	40	0.07%	54	195	0.35%	155
2022	55,557	55,557	60	0.11%	54	249	0.45%	189
2023	56,173	56,173	80	0.14%	101	350	0.62%	270
2024	56,784	56,784	100	0.18%				

Estimated Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	8.0	8.3	808.0	838.3
Winter kW Reduction	3.9	4.0	393.9	404.0
kWH Reduction	42,100	43,700	4,252,100.0	4,413,700.0

Utility Cost per Installation	$ 1,900
Total Program Cost of the Utility (Administration and Incentives)	$ 665,000

Report
03/01/2024

March 1, 2024

Adam Teitzman
Director, Office of Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Blvd
Tallahassee, Florida 32399-0688

Subject: 2024 Orlando Utilities Commission Annual Conservation Report

Dear Mr. Teitzman

Attached please find an electronic version (in PDF format) of the 2024 Orlando Utilities Commission (OUC) Annual Conservation Report. The 2024 OUC Annual Conservation Report was prepared by nFront Consulting LLC (nFront) and is being submitted by nFront on behalf of OUC.

If you have any questions about this report, please do not hesitate to contact me.

Respectfully submitted,

/s/ Bradley Kushner

Bradley Kushner
Executive Consultant
nFront Consulting LLC
BradKushner@nFrontConsulting.com

Orlando Utilities Commission

2024 Annual Conservation Report

Demand-Side Management and Conservation Programs Offered in Calendar Year 2023

Prepared by:

nFront Consulting LLC

March 2024





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1.0 INTRODUCTION

In accordance with Rule 25-17.0021, Florida Administrative Code, the Florida Public Service Commission (FPSC) must establish numeric conservation goals for the Orlando Utilities Commission (OUC) at least once every five years. In addition, OUC must file an annual report showing the status of its demand-side management (DSM) programs and numeric conservation goals.

1.1 OUC's Current Approved Numeric Conservation Goals

OUC's residential and commercial/industrial numeric conservation goals for the 2020 through 2024 period were established by the FPSC pursuant to Order No. PSC-2019-0509-FOF-EG. The FPSC's Consummating Order (PSC-2020-0177-CO-EG), issued June 5, 2020, approved OUC's 2020 Demand-Side Management Plan (DSM Plan). The Consummating Order confirmed Order No. PSC-2020-0140-PAA-EG, the FPSC Notice of Proposed Agency Action that recommended approval of OUC's DSM Plan. OUC's DSM Plan sets forth the programs that OUC anticipated offering to achieve the numeric conservation goals established by the FPSC. The approved numeric conservation goals are summarized in Section 2.0 of this report, and OUC's actual DSM reductions are presented in Section 3.0 of this report.

1.2 OUC's DSM and Conservation Programs

OUC has been increasingly emphasizing its DSM and conservation programs to grow customer awareness of such programs. Not only do these programs help customers save money by saving energy, the programs help OUC reduce emissions of carbon dioxide (CO_2) and better position OUC to meet possible future greenhouse gas regulations. It should be noted that government mandates have forced manufacturers to increase their efficiency standards of appliances, thereby decreasing the incremental amount of cost-effective energy savings achievable, and the efficiency of new generation has increased. Appliance and generating unit efficiency improvements have mitigated to some degree the effectiveness of DSM and conservation programs, as overall efficiency increases in the marketplace partially offset the benefit of such programs.

The following two sections of this report provide more specific details concerning the DSM and conservation programs offered by OUC in calendar year 2023 (Section 2.0), and present the participation levels and associated numeric savings for each of OUC's quantifiable conservation programs which were offered in 2023 (Section 3.0) consistent with OUC's FPSC-approved DSM Plan. Annual energy reductions associated with OUC's residential and commercial/industrial energy surveys will no longer be counted towards achieving DSM goals; as such, Tables 3-1 through 3-3 do not reflect energy reductions associated with OUC's energy survey programs.

The conservation programs included in the DSM Plan and offered to OUC's customers in 2023 consist of the following:

- Residential Home Energy Survey Program – Walk-Through
- Residential Duct Repair Rebates Program
- Residential Ceiling Insulation Rebates Program
- Residential High Performance Windows Rebates Program
- Residential Efficient Electric Heat Pump Rebates Program
- Residential New Home Rebates Program

- Residential Heat Pump Water Heater Rebates Program
- Residential Efficiency Delivered Program
- Commercial Energy Audits Program
- Commercial Efficient Electric Heat Pump Rebates Program
- Commercial Duct Repair Rebates Program
- Commercial Ceiling Insulation Rebates Program
- Commercial Cool/Reflective Roof Rebates Program
- Commercial Indoor Lighting Billed Solution Program
- Commercial Indoor Lighting Rebates Program
- Commercial Custom Incentive Program

2.0 CONSERVATION GOALS AND DEMAND-SIDE MANAGEMENT PLAN

2.1 Approved Numeric Conservation Goals

Table 2-1 presents the annual peak demand and energy reduction goals established for OUC by the FPSC.

Table 2-1
FPSC's Approved Numeric Conservation Goals for OUC

	Residential Reduction Goals			Commercial/Industrial Reduction Goals		
Year	Summer (MW)	Winter (MW)	Annual Energy (GWh)	Summer (MW)	Winter (MW)	Annual Energy (GWh)
2020	0.21	0.21	0.77	0.39	0.70	0.85
2021	0.21	0.22	0.80	0.40	0.78	0.86
2022	0.19	0.20	0.72	0.37	0.78	0.85
2023	0.19	0.18	0.66	0.39	0.74	0.82
2024	0.16	0.16	0.57	0.36	0.70	0.80
Total	0.96	0.97	3.52	1.91	3.70	4.18

2.2 OUC's DSM and Conservation Programs

The FPSC has established residential and commercial/industrial conservation goals for OUC for the 2020 through 2024 period (refer to Table 2-1). The programs that OUC offered during calendar year 2023 are described in the following subsections. Program incentives included in the descriptions are current as of the time this report was prepared.

2.2.1 Energy Survey Programs[1]

2.2.1.1 Residential Home Energy Survey Program

OUC has been offering home energy surveys dating back to the 1980's. The home energy walk-through surveys were designed to provide residential customers with recommended energy efficiency measures and practices customers can implement and to encourage participation in various OUC rebate programs. The home energy surveys are available to both single family and multi-family residential customers.

[1] As noted in OUC's DSM Plan, discussion of OUC's Residential Home Energy Survey and Commercial Energy Audit programs is included for informational purposes as OUC has continued to offer the programs. Demand and energy reductions associated with the programs have not been quantified for inclusion in this Report, as these programs are not treated as contributing to the numeric conservation goals established by the FPSC for OUC.

The Residential Energy Walk-Through Survey includes a review of the customer electric consumption history as well as a walk-through review of the attic; heating, ventilation, and air conditioning (HVAC) system; air duct and air returns; window caulking; weather stripping around doors; faucets and toilets; and lawn sprinkler systems. OUC provides participating customers specific tips on conserving electricity and water as well as details on customer rebate programs. OUC Conservation Specialists are using this walk-through type audit as a means of motivating OUC customers to participate in other conservation programs and qualify for appropriate rebates.

One of the primary benefits of the Residential Energy Survey Program is the education it provides to customers on energy conservation measures and ways their lifestyle can directly affect their energy use. Customers participating in the Energy Survey Program are informed about their historical energy usage and conservation measures that they can implement, and receive a report that includes estimates of ranges of costs, savings, and payback periods for recommended measures. Customers will benefit from the increased efficiency in their homes, and decreased electric and water bills.

The Home Energy Audit rates how efficient a customer's home energy use is and where one can make improvements to lower utility bills. Participation is tracked through service orders that are produced when appointments are scheduled and completed.

2.2.1.2 Commercial Energy Audit Program

The commercial/industrial Energy Audit Program has been offered for several years and is focused on increasing the energy efficiency of commercial buildings and includes a free survey comprised of a physical walk-through inspection of the commercial facility performed by trained and experienced energy experts. The survey will include a pre walk-through review of historical energy usage as well as a walkthrough to examine heating and air conditioning systems including duct work, refrigeration equipment, lighting, water heating, motors, process equipment, and the thermal characteristics of the building including insulation. Following the inspection, the customer receives a written report (available in both English and Spanish) detailing cost-effective recommendations to make the facility more energy and water efficient. Participating customers are encouraged to participate in other OUC commercial programs and directly benefit from energy conservation, which decreases their electric and water bills.

OUC customers can participate by calling the OUC Customer Service Call Center and requesting an appointment for a Walk-Through Energy Survey. Participation is tracked through service orders that are produced when appointments are scheduled and completed.

2.2.2 Rebate Programs

The following outlines the various rebate programs OUC offers to its customers. Customers can participate by submitting a rebate application online at http://www.OUC.com/rebates or via email, mail, in-person, or facsimile. Proofs of purchase and/or receipts are required to be attached to the application and repairs can be performed by a contractor or the customer. Participation is tracked based on the number of rebates processed. Typically, these rebates are credited on the customer's bill, or a check can be processed and sent to the property owner who may have paid for the improvement.

2.2.2.1 Residential Duct Repair Rebates Program

The residential Duct Repair Rebates Program originated in 2000 and is designed to encourage customers to repair leaking ducts on existing systems. Qualifying customers must have an existing central air conditioning system of 5.5 tons or less and ducts must be sealed with mastic and fabric tape or any other

Underwriters Laboratory (UL) approved duct tape. Participating customers receive a rebate for 100 percent of the cost of duct repairs on their homes, up to $100.

2.2.2.2 Residential Ceiling Insulation Rebates Program

The attic is the easiest place to add insulation and lower total energy costs throughout the seasons. The residential Ceiling Insulation Rebates program has been offered for several years and is designed to encourage customers to upgrade their attic insulation. Participating customers receive $0.10 per square foot for upgrading their attic insulation to R-30 or greater. The program applies to conditioned areas only.

2.2.2.3 Residential High Performance Windows Rebates Program

Energy-efficient windows can help minimize heating, cooling, and lighting costs. The residential High Performance Windows Rebates program has been offered for several years and is designed to encourage customers to install windows that improve energy efficiency in their homes. Customers will receive a $1.50 rebate per square foot for the purchase of ENERGY STAR® rated energy efficient windows.

2.2.2.4 Residential Efficient Electric Heat Pump Rebates Program

The residential Efficient Electric Heat Pump Rebates program provides rebates to qualifying customers in existing homes who install heat pumps having a seasonal energy efficiency ratio (SEER) of 15.0 or higher for systems installed before 04/01/2023 or a (SEER2) 15.2 or higher for systems installed after 04/01/2023. Customers will obtain a rebate in the form of a credit on their bill ranging up to $1,630, depending upon the SEER/SEER2 rating and capacity (tons) of the new heat pump. The following tables illustrate the incentives available depending on the size and efficiency of the Heat Pump installed.

(Table represents rebates for systems installed before 04/01/2023)

	SEER	15	16	17	18	19	20	21	22	23
A / C Size (Tons)	1	$ 5	$ 55	$ 95	$ 135	$ 170	$ 205	$ 230	$ 260	$ 280
	1 1/2	30	105	175	230	285	330	375	415	450
	2	60	160	250	325	400	460	520	570	620
	2 1/2	90	215	325	425	510	590	660	725	785
	3	115	270	400	520	625	720	805	885	955
	3 1/2	145	320	475	615	740	850	950	1,040	1,125
	4	175	375	550	710	850	975	1,090	1,195	1,290
	4 1/2	205	430	630	805	965	1,105	1,235	1,355	1,460
	5	230	485	705	900	1,075	1,235	1,380	1,510	1,630

(Table represents rebates for systems installed after 04/01/2023)

	SEER 2	15.2 - 15.99	16.0 - 16.99	17.0 - 17.99	18.0 - 18.99	19.0 - 19.99	20.0 - 20.99	21.0 - 21.99	22.0 - 22.99
AC Size (Tons)	1	-	-	$ 55	$ 85	$ 115	$ 140	$ 165	$ 185
	1.5	-	55	110	155	200	240	275	305
	2	-	90	165	230	285	340	385	425
	2.5	45	130	220	300	370	435	495	550
	3	65	165	275	370	455	535	605	670
	3.5	90	200	330	440	540	635	715	790
	4	110	235	385	510	625	730	825	910
	5	150	310	490	655	795	925	1,045	1,150

2.2.2.5 Residential New Home Rebates Program

What was previously named the Residential Gold Ring Home Program has been transformed into a more flexible "a la carte" program offering a variety of choices for the builder or home buyer and has been renamed the New Home Rebates program. This transformation was based on feedback OUC received from the residential building community in order to increase the level of participation in OUC's program. The chart below reflects an example of the incentives available.

Rebate	Rate of Rebate	Square Footage	Total
Ceiling Insulation Upgrade to R-38 or higher	$0.03/sq. ft.	2,000	$60
Heat Pump*	Up to $1,630	N/A	$1,630
Energy Star® Heat Pump Water Heater	$500	N/A	$500
Solar Water Heater	$900	N/A	$900

(* Up to $1,630 for SEER before April 1st 2023, up to $1,150 for SEER2 after April 1st 2023)

2.2.2.6 Residential Heat Pump Water Heater Rebates Program

Commonly referred to as hybrid electric heat pump water heaters, such water heaters with a coefficient of performance (COP) of greater than 2.0 can cut water heating electric use and costs by more than half. OUC's Heat Pump Water Heater Rebates program provides rebates for the heat pumps for qualifying installations. The contractor and/or retailer's invoice is required to receive this rebate and must reflect the system model number. If the receipt does not include the model number, a copy of the retailer's item description of product installed should be submitted that can be matched to the proof of purchase. OUC's rebate is $500.

2.2.2.7 Residential Efficiency Delivered Program

What was once referred to as the home energy fix-up program has been revamped and expanded to allow for any OUC customer (energy, water, or both energy and water) to participate and renamed the Efficiency Delivered program. The program is available to residential customers (single family homes) and provides up to $2,500 of energy and water efficiency upgrades based on the needs of the customer's home. A Conservation Specialist from OUC performs a survey at the home and determines which home improvements have the potential of saving the customer the most money. The program is an income based program which is the basis for how much OUC will help contribute toward the cost of improvements and consists of three household income tiers:

Household Income	OUC Contribution
Less than $40,000	85% (not to exceed $2,125)
$40,001–$60,000	50% (not to exceed $1,250)
Greater than $60,000	Rebates only

- $40,000 or less OUC will contribute 85 percent of the total cost (not to exceed $2,125),

- $40,001 to $60,000 OUC will contribute 50 percent of the total cost (not to exceed $1,250),
- greater than $60,000 OUC will contribute the rebate incentives that apply toward the total cost.

Each customer must request and complete a free Residential Energy Survey. Ordinarily, Energy Survey recommendations require a customer to spend money replacing or adding energy conservation measures: however, customers may not have the discretionary income to implement these measures especially those in the lower income tier. Under this program, OUC will arrange for a licensed, approved contractor to perform the necessary repairs based on a negotiated and contracted rate. The remaining portion of the cost the customer is responsible for, can be paid directly to OUC or over an interest-free 24-month period on the participant's monthly electric bill.

To be eligible for this program, the customer's account must be in good credit standing with the exception of our low-income customers who are only required to have a current balance that is not delinquent. Some of the improvements covered under this program are included in the table below:

Air conditioner tune-up	Thermostat replacement with Smart Thermostat	Minor plumbing repairs
Air filter replacement	Duct leak repairs	Toilet replacement
Attic insulation	Evaporator coil cleaning	Water flow restrictors
Window film insulation	Hot water pipe and air conditioner refrigerant line insulation	Blower door testing
Caulking and weatherstripping	Irrigation repairs	Attic stair insulation cover

The purpose of the program is to reduce the energy and water costs especially for low-income households, particularly those households with elderly persons, disabled persons and children. Through this program, OUC helps to lower the bills of customers who may have difficulty paying their bills, thereby decreasing the potential for costly service disconnect fees and late charges. OUC believes that this program will help customers afford other essential living expenses. For others, this program offers a one-stop-shop to facilitate the implementation of a whole suite of conservation measures at reasonable costs and pre-screened qualified contractors.

2.2.2.8 Commercial Efficient Electric Heat Pump Rebates Program

The commercial Efficient Electric Heat Pump Rebates program provides rebates to qualifying customers in existing buildings who install heat pumps having a seasonal energy efficiency ratio (SEER) of 15.0 or higher for systems installed before 04/01/2023 or a (SEER2) 15.2 or higher for systems installed after 04/01/2023. Customers will obtain a rebate in the form of a credit on their bill ranging up to $1,630, depending upon the SEER/SEER2 rating and capacity (tons) of the new heat pump. The following tables illustrate the incentives available depending on the size and efficiency of the Heat Pump installed.

(Table represents rebates for systems installed before 04/01/2023)

	SEER	15	16	17	18	19	20	21	22	23
A / C Size (Tons)	1	$ 5	$ 55	$ 95	$ 135	$ 170	$ 205	$ 230	$ 260	$ 280
	1 1/2	30	105	175	230	285	330	375	415	450
	2	60	160	250	325	400	460	520	570	620
	2 1/2	90	215	325	425	510	590	660	725	785
	3	115	270	400	520	625	720	805	885	955
	3 1/2	145	320	475	615	740	850	950	1,040	1,125
	4	175	375	550	710	850	975	1,090	1,195	1,290
	4 1/2	205	430	630	805	965	1,105	1,235	1,355	1,460
	5	230	485	705	900	1,075	1,235	1,380	1,510	1,630

(Table represents rebates for systems installed after 04/01/2023)

	SEER 2	15.2 - 15.99	16.0 - 16.99	17.0 - 17.99	18.0 - 18.99	19.0 - 19.99	20.0 - 20.99	21.0 - 21.99	22.0 - 22.99
AC Size (Tons)	1	-	-	$ 55	$ 85	$ 115	$ 140	$ 165	$ 185
	1.5	-	55	110	155	200	240	275	305
	2	-	90	165	230	285	340	385	425
	2.5	45	130	220	300	370	435	495	550
	3	65	165	275	370	455	535	605	670
	3.5	90	200	330	440	540	635	715	790
	4	110	235	385	510	625	730	825	910
	5	150	310	490	655	795	925	1,045	1,150

2.2.2.9 Commercial Duct Repair Rebates Program

The commercial Duct Repair Rebates program started in 2009. OUC will rebate 100 percent of cost, up to $100. Qualifying customers must have an existing central air conditioning system of 5.5 tons or less and ducts must be sealed with mastic and fabric tape or Underwriters Laboratory (UL) approved duct tape.

2.2.2.10 Commercial Ceiling Insulation Rebates Program

The commercial Ceiling Insulation Rebates program started in 2009 and was designed to increase a building's resistance to heat loss and gain. Participating customers receive $0.10 per square foot, for upgrading their attic insulation to R-30 or higher.

2.2.2.11 Commercial Cool/Reflective Roof Rebates Program

The commercial Cool/Reflective Roof Rebates program started in 2009 and was designed to reflect the sun's rays and lower roof surface temperature while increasing the lifespan of the roof. OUC will rebate customers at $0.12 per square foot for ENERGY STAR® cool/reflective roofing that has an initial solar reflectance greater than or equal to 0.70.

2.2.2.12 Commercial Indoor Lighting Billed Solution Program

Converting old indoor lights to new lighting technologies is one of the most cost-effective improvements that a commercial customer can make. For some, the lack of capital or budget planning can be major barriers to making cost-effective investments. Since 2002, OUC's commercial Indoor Lighting program has assisted commercial customers with these investments through OUC's commercial Indoor Lighting

Billed Solution program. Through a competitive RFP process, OUC selected a qualified lighting contractor to work with customers to develop proposals. Customers enter into an agreement with OUC to pay back the cost of the project based on the expected savings through monthly charges applied to their bill. Basically, it is a cash-flow neutral billed solution where the monthly savings pay for the project's cost over the pay-back period or term. The term cannot exceed five years.

2.2.2.13 Commercial Indoor Lighting Rebates Program

Commercial customers that upgrade the efficiency of their indoor lighting may be eligible to receive a rebate of $250/kW through the commercial Indoor Lighting Rebates program. Participation is open to facilities located within OUC's service area that receive electric service under an OUC commercial rate. Participants or customers may be any of the following:

- Individual customers who install more efficient lighting in their own facilities.
- National or local companies that install more efficient lighting.
- Local contractors, design/build firms, architectural and engineering firms, and commercial property developers working on behalf of OUC commercial customers.

2.2.2.14 Commercial Custom Incentive Program

Through the commercial Custom Incentive program, commercial customers receive incentives based on the reduction in peak demand their projects achieve plus the first year energy savings. Energy and demand saving incentives are paid for the maximum one-hour average demand reduction that occurs during the Summer Demand period defined as weekdays, between 1 P.M. to 6 P.M., from April through October. Pre- and post-inspections are required. Incentives and other program considerations are summarized below.

- $550 per kW reduction incentive and/or energy reduction measures at $0.032 per kWh will also be incentivized.
- $250 per kW reduction incentive for all lighting measures.
- Incentives shall not exceed 50% of project cost.
- Incentives may be paid at 50% on project completion and remainder at one year depending on performance results.
- All incentives will be paid as a credit appearing on the customer's OUC statement.
- Simple return on investment must be greater than 2 years.
- Energy and demand conservation measure should have a useful life of at least 10 years.
- A maximum incentive of $100,000 per customer annually.

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3.0 STATUS OF OUC'S APPROVED NUMERIC GOALS

Tables 3-1 through 3-3 illustrate OUC's actual demand and energy reductions versus the peak demand and energy reductions approved by the FPSC. As shown in Tables 3-1 through 3-3, OUC exceeded each of the FPSC-approved peak demand and energy reductions in 2023 (i.e. summer and winter peak demand (kW) and annual energy (MWh) for residential and commercial/industrial customer classes). Table 3-4 lists the summer and winter peak demand (kW) and annual energy (MWh) reductions for each of the programs included in the demand and energy reductions presented in Tables 3-1 through 3-3.

As noted in OUC's DSM Plan, annual energy reductions associated with OUC's residential and commercial/industrial energy surveys will not be counted towards achieving DSM goals. As such, Tables 3-1 through 3-4 do not reflect energy reductions associated with OUC's survey programs, which OUC continued to offer during 2023 (with the number of surveys completed, by type, summarized below and including proactive energy audits)[2].

- Residential Energy Surveys – On-Site/Single Family Homes: 1,305
- Residential Energy Surveys – On-Site/Multi Family Homes: 500
- Residential Proactive: 30
- Commercial Energy Audits: 63

[2] Proactive energy audits are audits for which OUC detects a significant increase in a customer's electric consumption and proactively visits the customer's property to offer assistance.

Table 3-1
Comparison of Actual Conservation Reductions to FPSC's Approved Numeric Conservation Goals – Residential Programs

Year	Winter Peak kW Reduction		Summer Peak kW Reduction		MWh Energy Reduction	
	Achieved Reduction	FPSC-Approved Goal	Achieved Reduction	FPSC-Approved Goal	Achieved Reduction	FPSC-Approved Goal
2020	821	210	763	210	1,628	770
2021	659	220	631	210	1,422	800
2022	581	200	531	190	1,137	720
2023	954	180	810	190	1,856	660
2024		160		160		570

Table 3-2
Comparison of Actual Conservation Reductions to FPSC's Approved Numeric Conservation Goals – Commercial/Industrial Programs

Year	Winter Peak kW Reduction		Summer Peak kW Reduction		MWh Energy Reduction	
	Achieved Reduction	FPSC-Approved Goal	Achieved Reduction	FPSC-Approved Goal	Achieved Reduction	FPSC-Approved Goal
2020	1,960	700	2,325	390	9,087	850
2021	1,676	780	1,859	400	11,330	860
2022	1,956	780	1,985	370	4,816	850
2023	1,556	740	1,593	390	8,489	820
2024		700		360		800

Table 3-3
Comparison of Actual Conservation Reductions to FPSC's Approved Numeric Conservation Goals – Residential and Commercial/Industrial Programs

Year	Winter Peak kW Reduction		Summer Peak kW Reduction		MWh Energy Reduction	
	Achieved Reduction	FPSC-Approved Goal	Achieved Reduction	FPSC-Approved Goal	Achieved Reduction	FPSC-Approved Goal
2020	2,782	910	3,087	600	10,715	1,620
2021	2,335	1,000	2,489	610	12,752	1,660
2022	2,537	980	2,515	560	5,953	1,570
2023	2,510	920	2,403	580	10,344	1,480
2024		860		520		1,370

Table 3-4 2022 Program Winter Peak (kW), Summer Peak (kW), and Annual Energy (MWh) Reductions (at the Generator)			
Program	Winter Peak kW Reduction	Summer Peak kW Reduction	MWh Energy Reduction
Residential Programs			
Duct Repair Rebates	82.8	96.6	154.2
Ceiling Insulation Upgrade Rebates	275.8	130.4	99.6
High Performance Windows Rebates	104.4	43.6	56.8
Efficient Electric Heat Pump Rebates	232.3	301.5	539.8
New Home Rebates	21.3	22.2	66.2
Efficiency Delivered	68.4	58.4	124.6
Heat Pump Water Heater Rebates	169.1	157.3	814.3
Residential Programs Total	**954**	**810**	**1,856**
Commercial/Industrial Programs			
Efficient Electric Heat Pump Rebates	1.8	2.5	4.4
Duct Repair Rebates	0.0	0.0	0.0
Ceiling Insulation Upgrade Rebates	0.0	0.0	0.0
Cool/Reflective Roof Rebates	0.0	35.6	188.0
Indoor Lighting Billed Solution	319.0	319.0	2,643.6
Indoor Lighting Rebates	1,025.0	1,025.0	3,358.4
Custom Incentive	210.5	210.5	2,294.2
Commercial/Industrial Programs Total	**1,556**	**1,593**	**8,489**
Residential and Commercial/Industrial Programs Total	**2,510**	**2,403**	**10,344**
Note: Totals may not add due to rounding.			

In addition to the residential and commercial programs previously discussed, OUC continues to do more to reduce energy consumption through supply-side initiatives, including:

- Conservation Voltage Reduction (CVR) - The Conservation Voltage Reduction (CVR) Project is made possible by OUC's investment in its Advanced Meter Infrastructure (AMI) and more sophisticated distribution equipment. The availability of AMI customer load and voltage interval data provides an opportunity to optimize voltage control and thereby reduce energy consumption based on better awareness and monitoring of system conditions at customer service points. Benefits of CVR include conservation related reductions in customer energy

usage and line losses (with associated reductions in fuel usage) and lower demands on generation resources. As of December 2023, OUC had 157 feeders of the total of 190 feeders under CVR control and savings of approximately 28,814,933 kWh annually.

- Power Plant Efficiency Improvements –OUC continues to make investments in improving the energy efficiency at its generation facilities. The energy reduction realized in 2023 due to these efficiency improvements totaled approximately 262,022,000 kWh.
- OUCooling Chilled Water District(s) Efficiency Improvements - OUCooling currently serves over 200 customers and provides more than 61,000 tons of cooling. OUCooling's success has relied on the fact that OUCooling can deliver cooling more efficiently and less costly than what a customer would likely produce on their own. The way OUCooling succeeds is by investing in higher efficiency chillers and equipment and optimizes its operations on a continuous basis. The enhanced efficient operation of OUCooling is estimated to have saved approximately 32,413,886 kWh in 2023.

Table 3-5 provides a summary of the energy reductions realized by OUC in calendar year 2023 associated with conservation programs and efficiency improvements including the residential and commercial programs discussed previously in this report (as reflected in Table 3-1 through Table 3-4), as well as OUC's other demand reduction and efficiency improvement initiatives. Table 3-5 also shows these energy reductions as a percent of OUC's total calendar year 2023 retail sales.

Tables 3-6 through 3-19 present the annual demand and energy savings for the rebate programs (and billed solutions program) offered by OUC during calendar year 2023 (as discussed in Order No. PSC-2020-0140-PAA-EG) and as discussed in Section 2.0 of this report. Each table also includes the actual program costs (non-recurring costs and rebates) and participation for 2023 and participation projections for 2024, unless otherwise noted. The utility costs associated with the programs have been updated based on actual costs incurred during calendar year 2023. Unless otherwise noted, actual cumulative penetration rates for each program reflect 2020 as the base year and do not consider customer participation prior to 2020.

Table 3-5 2022 Annual Energy (kWh) Reductions (at the Generator)	
Program	**kWh Energy Reduction**
Residential Programs	
Duct Repair Rebates	154,192
Ceiling Insulation Upgrade Rebates	99,625
High Performance Windows Rebates	56,751
Efficient Electric Heat Pump Rebates	539,849
New Home Rebates	66,241
Efficiency Delivered	124,559
Heat Pump Water Heater Rebates	814,335
Residential Programs Total	**1,855,551**
Commercial/Industrial Programs	
Efficient Electric Heat Pump Rebates	4,428
Duct Repair Rebates	0
Ceiling Insulation Upgrade Rebates	0
Cool/Reflective Roof Rebates	188,013
Indoor Lighting Billed Solution	2,643,603
Indoor Lighting Rebates	3,358,391
Custom Incentive	2,294,159
Commercial/Industrial Programs Total	**8,488,594**
Residential and Commercial/Industrial Programs Total	**10,344,145**
Customer Facing Non-PSC Goal Programs	
Energy Surveys (Residential + Commercial/Industrial)	548,407
Commercial Window Film	0
Commercial Heat Pump Water Heater Rebates	1,802
Commercial High Performance Windows Rebates	1,134
Residential Window Film	5,137
Residential Solar Thermal Water Heating	4,515
Residential Solar Screening	1,476
Behavior Reports	6,535,310
Pre-Paid PowerPass	11,895,095
Sub-Total of Customer Facing Non-PSC Goal Programs	**18,992,877**
Total Customer Facing Energy Efficiency Programs	**29,337,022**
Non-Customer Facing Programs	
Conservation Voltage Reduction (CVR)	28,814,933
Stanton Energy Center Energy Efficiency Improvements	262,022,000
OUCooling Chilled Water Operations	32,413,886
Sub-Total of Non-Customer Facing Programs	**323,250,819**
Total of All Energy Efficiency Impacts	**352,587,842**
Total of All Energy Efficiency Impacts (% of 2023 Retail Sales)	**4.93%**
Note: Totals may not add due to rounding.	

Table 3-6. Residential Duct Repair Rebates

Program Name:	Residential Duct Repair Rebate
Program Start Date:	2020 (for Reporting Purposes)
Measure:	Residential Duct Repair Rebate
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	221,756	12,862	29	29	0.2%	54	54	0.4%	25
2021	228,707	13,265	29	58	0.4%	40	94	0.7%	36
2022	236,057	13,691	29	87	0.6%	34	128	0.9%	41
2023	242,199	14,048	29	116	0.8%	332	460	3.3%	344
2024	247,288	14,343	29	145	1.0%				

Eligibility Level	5.8%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.28	0.29	92.96	96.59
Winter kW Reduction	0.24	0.25	79.68	82.79
kWh Reduction	447	464	148,404	154,192

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	$266.21	$88,382
Utility Recurring Cost	$0	$0
Utility Nonrecurring Rebate	$100	$33,200
Utility Recurring Rebate	$0	$0

Annual Benefits = $B_{npv} \times d/[1-(1+d)^{-n}] =$ (5,979)

where:

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period

d = 6.5% = discount rate (utility's after tax cost of capital)

n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Table 3-7. Residential Ceiling Insulation Rebates

Program Name:	Residential Ceiling Insulation Rebate
Program Start Date:	2020 (for Reporting Purposes)
Measure:	Residential Ceiling Insulation Rebate
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	221,756	46,778	70	70	0.1%	98	98	0.2%	28
2021	228,707	48,244	72	142	0.3%	84	182	0.4%	40
2022	236,057	49,794	74	216	0.4%	79	261	0.5%	45
2023	242,199	51,090	76	292	0.6%	389	650	1.3%	358
2024	247,288	52,163	77	369	0.7%				

Eligibility Level	21.1%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.32	0.34	125.53	130.43
Winter kW Reduction	0.68	0.71	265.41	275.76
kWh Reduction	246	256	95,885	99,625

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	$146.80	$57,104
Utility Recurring Cost	$0	$0
Utility Nonrecurring Rebate	$98.76	$38,416
Utility Recurring Rebate	$0	$0

Annual Benefits = $B_{npv} \times d/[1-(1+d)^{-n}] = (87,613)$

where:

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period

d = 6.5% = discount rate (utility's after tax cost of capital)

n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Table 3-8. Residential High Performance Windows Rebates

Program Name:	Residential High Performance Window Rebate
Program Start Date:	2020 (for Reporting Purposes)
Measure:	Residential High Performance Window Rebate
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	221,756	17,359	206	206	1.2%	207	207	1.2%	1
2021	228,707	17,903	206	412	2.3%	142	349	1.9%	(63)
2022	236,057	18,478	206	618	3.3%	181	530	2.9%	(88)
2023	242,199	18,959	206	824	4.3%	200	730	3.9%	(94)
2024	247,288	19,357	206	1,030	5.3%				

Eligibility Level	7.8%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.21	0.22	41.99	43.63
Winter kW Reduction	0.50	0.52	100.46	104.38
kWh Reduction	273	284	54,621	56,751

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	$162.65	$32,530
Utility Recurring Cost	$0	$0
Utility Nonrecurring Rebate	$246.63	$49,327
Utility Recurring Rebate	$0	$0

Annual Benefits = $B_{npv} \times d/[1-(1+d)^{-n}]$ = ($180,397)

where:

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period

d = 6.5% = discount rate (utility's after tax cost of capital)

n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Table 3-9. Residential Efficient Electric Heat Pump Rebates

Program Name:	Residential Heat Pump Rebate
Program Start Date:	2020 (for Reporting Purposes)
Measure:	Residential Heat Pump Rebate
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	221,756	7,614	1,078	1,078	14.2%	1,112	1,112	14.6%	34
2021	228,707	7,852	1,078	2,156	27.5%	895	2,007	25.6%	(149)
2022	236,057	8,105	1,078	3,234	39.9%	789	2,796	34.5%	(438)
2023	242,199	8,316	1,078	4,312	51.9%	936	3,732	44.9%	(580)
2024	247,288	8,490	1,078	5,390	63.5%				

Eligibility Level	3.4%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.31	0.32	290.63	301.48
Winter kW Reduction	0.24	0.25	223.54	232.26
kWh Reduction	555	577	519,585	539,849

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	$330.60	$309,438
Utility Recurring Cost	$0	$0
Utility Nonrecurring Rebate	$269.71	$252,445
Utility Recurring Rebate	$0	$0

Annual Benefits = B_{npv} x d/[1-(1+d)$^{-n}$] =	**($212,061)**	**($717,964)**	**($292,707)**	**($305,071)**	**($230,518)**	**($123,817)**	**($28,182)**	**($18,969)**
where:	**(SEER 15)**	**(SEER 16)**	**(SEER 17)**	**(SEER 18)**	**(SEER 19)**	**(SEER 20)**	**(SEER 21)**	**(SEER 22+)**

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period
d = 6.5% = discount rate (utility's after tax cost of capital)
n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Table 3-10. Residential New Home Rebates

Program Name:	New Home Rebate (Formerly Gold Ring)
Program Start Date:	2020 (for Reporting Purposes)
Measure:	New Home Rebate (Formerly Gold Ring)
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	221,756	3,907	116	116	3.0%	184	184	4.7%	68
2021	228,707	4,030	116	232	5.8%	155	339	8.4%	107
2022	236,057	4,159	116	348	8.4%	99	438	10.5%	90
2023	242,199	4,268	116	464	10.9%	86	524	12.3%	60
2024	247,288	4,357	116	580	13.3%				

Eligibility Level	1.8%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.25	0.26	21.34	22.17
Winter kW Reduction	0.24	0.25	20.49	21.29
kWh Reduction	741	770	63,754	66,241

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	$441.50	$37,969
Utility Recurring Cost	$0.00	$0
Utility Nonrecurring Rebate	$269.57	$23,183
Utility Recurring Rebate	$0	$0

Annual Benefits = $B_{npv} \times d/[1-(1+d)^{-n}]$ = ($425,309)

where:

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period

d = 6.5% = discount rate (utility's after tax cost of capital)

n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Table 3-11. Residential Efficiency Delivered

Program Name:	Residential Efficiency Delivered
Program Start Date:	2020 (for Reporting Purposes)
Measure:	Residential Efficiency Delivered
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	221,756	36,546	73	73	0.2%	86	86	0.2%	13
2021	228,707	37,691	73	146	0.4%	93	179	0.5%	33
2022	236,057	38,902	73	219	0.6%	105	284	0.7%	65
2023	242,199	39,915	73	292	0.7%	142	426	1.1%	134
2024	247,288	40,753	73	365	0.9%				

Eligibility Level	16.5%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.40	0.41	56.18	58.37
Winter kW Reduction	0.46	0.48	65.87	68.44
kWh Reduction	844	877	119,883	124,559

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	$502.79	$71,396
Utility Recurring Cost	$0	$0
Utility Nonrecurring Rebate[1]	$1,109.14	$157,497
Utility Recurring Rebate	$0	$0

(1). Includes all rebates and other costs assocaited with OUC's contributions to particiapting customers' costs. All other program costs are included in "Utility Nonrecurring Cost".

Annual Benefits = B_{npv} x d/[1-(1+d)$^{-n}$] = ($73,959)

where:

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period

d = 6.5% = discount rate (utility's after tax cost of capital)

n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Table 3-12. Residential Heat Pump Water Heater Rebates

Program Name:	Residential Heat Pump Water Heaters
Program Start Date:	2020 (for Reporting Purposes)
Measure:	Residential Heat Pump Water Heaters
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	221,756	4,287	182	182	4.25%	196	196	4.57%	14
2021	228,707	4,421	182	364	8.23%	175	371	8.4%	7
2022	236,057	4,564	182	546	11.96%	161	532	11.7%	(14)
2023	242,199	4,682	182	728	15.55%	452	984	21.0%	256
2024	247,288	4,781	182	910	19.03%				

Eligibility Level	1.9%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.34	0.35	151.42	157.33
Winter kW Reduction	0.36	0.37	162.72	169.07
kWh Reduction	1,734	1,802	783,768	814,335

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	$2,899	$466,772
Utility Recurring Cost	$0	$0
Utility Nonrecurring Rebate	$500	$226,000
Utility Recurring Rebate	$0	$0

Annual Benefits = $B_{npv} \times d/[1-(1+d)^{-n}]$ = ($491,767)

where:

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period

d = 6.5% = discount rate (utility's after tax cost of capital)

n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Table 3-13. Commercial Efficient Electric Heat Pump Rebates

Program Name:	Commercial Heat Pump Rebate
Program Start Date:	2020 (for Reporting Purposes)
Measure:	Commercial Heat Pump Rebate
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	31,692	2,189	11	11	0.5%	8	8	0.4%	(3)
2021	32,338	2,234	11	22	1.0%	9	17	0.8%	(5)
2022	33,115	2,288	10	32	1.4%	44	61	2.7%	29
2023	33,140	2,289	9	41	1.8%	5	66	2.9%	25
2024	33,539	2,317	9	50	2.2%				

Eligibility Level	6.9%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.49	0.51	2.44	2.54
Winter kW Reduction	0.36	0.37	1.78	1.85
kWh Reduction	852	886	4,262	4,428

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	$33.80	$169
Utility Recurring Cost	$0	$0
Utility Nonrecurring Rebate	$391.00	$1,955
Utility Recurring Rebate	$0	$0

Annual Benefits = B_{npv} x d/[1-(1+d)$^{-n}$] =	**($1,141)**	**($1,830)**	**($1,773)**	**($2,384)**	**($2,848)**	**($3,307)**	**($3,765)**	**($4,220)**
where:	**(SEER 15)**	**(SEER 16)**	**(SEER 17)**	**(SEER 18)**	**(SEER 19)**	**(SEER 20)**	**(SEER 21)**	**(SEER 22+)**

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period
d = 6.5% = discount rate (utility's after tax cost of capital)
n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Table 3-14. Commercial Duct Repair Rebates

Program Name:	Commercial Duct Repair Rebate
Program Start Date:	2020 (for Reporting Purposes)
Measure:	Commercial Duct Repair Rebate
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	31,692	1,852	4	4	0.2%	0	0	0.0%	(4)
2021	32,338	1,890	4	8	0.4%	0	0	0.0%	(8)
2022	33,115	1,935	4	12	0.6%	1	1	0.1%	(11)
2023	33,140	1,937	4	16	0.8%	0	1	0.1%	(15)
2024	33,539	1,960	4	20	1.0%				

Eligibility Level	5.8%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
kWh Reduction	0	0	0	0

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	$0	$0
Utility Recurring Cost	$0	$0
Utility Nonrecurring Rebate	$0	$0
Utility Recurring Rebate	$0	$0

Annual Benefits = $B_{npv} \times d/[1-(1+d)^{-n}]$ = ($825)

where:

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period

d = 6.5% = discount rate (utility's after tax cost of capital)

n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Table 3-15. Commercial Ceiling Insulation Upgrade Rebates

Program Name:	Commercial Ceiling Insulation Rebate
Program Start Date:	2020 (for Reporting Purposes)
Measure:	Commercial Ceiling Insulation Rebate
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	31,692	1,150	5	5	0.4%	1	1	0.1%	(4)
2021	32,338	1,174	5	10	0.9%	1	2	0.2%	(8)
2022	33,115	1,202	5	15	1.2%	6	8	0.7%	(7)
2023	33,140	1,203	5	20	1.7%	0	8	0.7%	(12)
2024	33,539	1,217	5	25	2.1%				

Eligibility Level	3.6%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
kWh Reduction	0	0	0	0

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	0	$0
Utility Recurring Cost	0	$0
Utility Nonrecurring Rebate	0	$0
Utility Recurring Rebate	0	$0

Annual Benefits = $B_{npv} \times d/[1-(1+d)^{-n}]$ = ($5,346)

where:

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period

d = 6.5% = discount rate (utility's after tax cost of capital)

n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Table 3-16. Commercial Cool/Reflective Roof Rebates

Program Name:	Commercial Cool / Reflective Roof Rebate
Program Start Date:	2020 (for Reporting Purposes)
Measure:	Commercial Cool / Reflective Roof Rebate
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	31,692	23,040	4	4	0.0%	16	16	0.1%	12
2021	32,338	23,510	4	8	0.0%	8	24	0.1%	16
2022	33,115	24,075	4	12	0.0%	2	26	0.1%	14
2023	33,140	24,093	4	16	0.1%	2	28	0.1%	12
2024	33,539	24,383	4	20	0.1%				

Eligibility Level	72.7%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	17.14	17.81	34.27	35.61
Winter kW Reduction	0.00	0.00	0.00	0.00
kWh Reduction	90,478	94,007	180,956	188,013

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	$3,587.44	$7,175
Utility Recurring Cost	$0	$0
Utility Nonrecurring Rebate	$4,112.64	$8,225
Utility Recurring Rebate	$0	$0

Annual Benefits = $B_{npv} \times d/[1-(1+d)^{-n}]$ = ($215,240)

where:

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period

d = 6.5% = discount rate (utility's after tax cost of capital)

n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Table 3-17. Commercial Indoor Lighting Billed Solutions

Program Name:	Commercial Indoor Lighting Billed Solution
Program Start Date:	2020 (for Reporting Purposes)
Measure:	Commercial Indoor Lighting Billed Solution
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	31,692	17,591	5	5	0.0%	4	4	0.0%	(1)
2021	32,338	17,949	5	10	0.1%	5	9	0.1%	(1)
2022	33,115	18,380	5	15	0.1%	8	17	0.1%	2
2023	33,140	18,394	5	20	0.1%	2	19	0.1%	(1)
2024	33,539	18,616	4	24	0.1%				

Eligibility Level	55.5%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	153.50	159.49	307.00	318.97
Winter kW Reduction	153.50	159.49	307.00	318.97
kWh Reduction	1,272,186	1,321,801	2,544,372	2,643,603

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	$50,441.93	$100,884
Utility Recurring Cost	$0	$0
Utility Nonrecurring Rebate	$0	$0
Utility Recurring Rebate	$0	$0

Annual Benefits = $B_{npv} \times d/[1-(1+d)^{-n}]$ = ($205,954)

where:

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period

d = 6.5% = discount rate (utility's after tax cost of capital)

n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Table 3-18. Commercial Indoor Lighting Rebates

Program Name:	Commercial Indoor Lighting Rebate
Program Start Date:	2020 (for Reporting Purposes)
Measure:	Commercial Indoor Lighting Rebate
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	31,692	21,216	16	16	0.1%	28	28	0.1%	12
2021	32,338	21,649	16	32	0.1%	14	42	0.2%	10
2022	33,115	22,169	15	47	0.2%	12	54	0.2%	7
2023	33,140	22,186	15	62	0.3%	10	64	0.3%	2
2024	33,539	22,453	14	76	0.3%				

Eligibility Level	66.9%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	98.65	102.50	986.52	1,024.99
Winter kW Reduction	98.65	102.50	986.52	1,024.99
kWh Reduction	323,233	335,839	3,232,330	3,358,391

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	$12,816.13	$128,161
Utility Recurring Cost	$0	$0
Utility Nonrecurring Rebate	$24,947.19	$249,472
Utility Recurring Rebate	$0	$0

Annual Benefits = $B_{npv} \times d/[1-(1+d)^{-n}]$ = ($195,263)

where:

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period

d = 6.5% = discount rate (utility's after tax cost of capital)

n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Table 3-19. Commercial Custom Incentive

Program Name:	Commercial Custom Incentive
Program Start Date:	2020 (for Reporting Purposes)
Measure:	Commercial Custom Incentive
Reporting Period:	2023

A	B	C	D	E	F	G	H	I	J
Calendar Year	Total Number of Customers	Total Number of Eligible Customers	Projected Annual Average Number of Program Participants	Projected Cumulative Number of Program Participants	Projected Cumulative Penetration Level % (E/C*100)	Actual Annual Number of Program Participants	Actual Cumulative Number of Program Participants	Actual Cumulative Penetration Level % (H/C*100)	Actual Participation Over (Under) Projected Participants (H-E)
2020	31,692	31,186	13	13	0.0%	26	26	0.1%	13
2021	32,338	31,822	13	26	0.1%	15	41	0.1%	15
2022	33,115	32,586	13	39	0.1%	9	50	0.2%	11
2023	33,140	32,611	12	51	0.2%	11	61	0.2%	10
2024	33,539	33,004	12	63	0.2%				

Eligibility Level	98.4%

Annual Demand and Energy Savings	Per Installation		Program Total	
	@meter	@generator	@meter	@generator
Summer kW Reduction	18.41	19.13	202.55	210.45
Winter kW Reduction	18.41	19.13	202.55	210.45
kWh Reduction	200,731	208,560	2,208,045	2,294,159

Costs	Per Participant	Program Total
Utility Nonrecurring Cost	$7,958.96	$87,549
Utility Recurring Cost	$0	$0
Utility Nonrecurring Rebate	$13,815.33	$151,969
Utility Recurring Rebate	$0	$0

Annual Benefits = $B_{npv} \times d/[1-(1+d)^{-n}]$ = $67,089

where:

B_{npv} = cumulative present value of the net benefits over the life of the program for measures installed during the reporting period

d = 6.5% = discount rate (utility's after tax cost of capital)

n = 10 = life of the program

The Annual Benefits calculation is based on the Total Resource Cost (TRC) test results presented in OUC's 2020 DSM Plan [approved by Consummating Order issued June 5, 2020 (Order No. PSC-2020-0177-CO-EG)] and utilizes the 6.5% discount rate and 10-year program life, consistent with the TRC calculations presented in OUC's 2020 DSM Plan.

Ten Year Power Plant Site Plan
2024 – 2033



Schedule 2.1
History of Energy Consumption
And Number of Customers by Customer Class

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
			Rural & Residential			Commercial		
Year	Population	Members per Household	GWh	Average No. of Customers	Average kWh Consumption Per Customer	GWh	Average No. of Customers	Average kWh Consumption Per Customer
2014	10,586,615	2.32	60,565	4,555,793	13,294	49,522	580,341	85,333
2015	10,758,616	2.33	64,211	4,618,890	13,902	51,266	587,965	87,193
2016	10,937,941	2.34	64,045	4,680,566	13,683	51,224	596,232	85,913
2017	11,075,378	2.34	63,418	4,740,017	13,379	50,964	604,336	84,331
2018	11,171,510	2.33	64,616	4,798,780	13,465	51,223	610,454	83,909
2019	11,256,787	2.30	65,845	4,886,791	13,474	51,853	622,212	83,336
2020	11,332,537	2.28	69,197	4,960,827	13,949	49,685	628,861	79,007
2021	11,441,385	2.27	67,162	5,036,950	13,334	50,506	636,044	79,407
2022	11,630,105	2.27	69,348	5,113,455	13,562	51,851	641,613	80,813
2023	11,827,634	2.28	70,206	5,179,816	13,554	52,507	642,772	81,689

Historical Values (2014 - 2023):

Col. (2) represents population in the area served by the consolidated system.

Col. (4) and Col. (7) represent actual energy sales including the impacts of existing conservation.
These values are at the meter.

Col. (5) and Col. (8) represent the annual average of the twelve monthly values.

Schedule 2.1
Forecast of Energy Consumption
And Number of Customers by Customer Class

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
			Rural & Residential			Commercial		
Year	Population	Members per Household	GWh	Average No. of Customers	Average kWh Consumption Per Customer	GWh	Average No. of Customers	Average kWh Consumption Per Customer
2024	11,993,837	2.29	68,593	5,245,403	13,077	51,642	649,222	79,544
2025	12,133,534	2.28	69,195	5,313,401	13,023	51,809	655,600	79,025
2026	12,257,559	2.28	70,041	5,381,547	13,015	52,097	661,594	78,744
2027	12,377,799	2.27	70,890	5,450,738	13,006	52,404	667,349	78,525
2028	12,497,918	2.26	72,054	5,521,018	13,051	52,659	671,986	78,364
2029	12,620,793	2.26	73,408	5,592,417	13,126	53,041	677,426	78,298
2030	12,747,013	2.25	74,805	5,664,447	13,206	53,344	682,635	78,144
2031	12,876,189	2.24	76,370	5,736,250	13,314	53,598	687,730	77,935
2032	13,007,101	2.24	78,130	5,808,531	13,451	53,817	692,717	77,690
2033	13,138,954	2.23	79,850	5,881,588	13,576	53,991	697,594	77,396

Projected Values (2024 - 2033):

Col. (2) represents population in the area served by the consolidated system.

Col. (4) and Col. (7) represent forecasted energy sales that do not include the impact of incremental conservation. These values are at the meter.

Col. (5) and Col. (8) represent the annual average of the twelve monthly values.

Schedule 2.2
History of Energy Consumption
And Number of Customers by Customer Class

(1)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	Industrial			Railroads &	Street & Highway	Sales to Public	Sales to Ultimate
Year	GWh	Average No. of Customers	Average kWh Consumption Per Customer	Railways GWh	Lighting GWh	Authorities GWh	Consumers GWh
2014	4,790	10,673	448,832	91	471	24	115,464
2015	4,840	11,566	418,477	92	473	23	120,906
2016	4,889	12,018	406,809	92	472	23	120,744
2017	4,701	11,909	394,738	83	473	41	119,680
2018	4,770	11,855	402,350	80	475	23	121,186
2019	4,750	12,049	394,249	82	455	23	123,008
2020	4,749	12,244	387,863	71	445	20	124,166
2021	4,721	12,790	369,087	68	433	19	122,908
2022	4,714	14,094	334,458	71	427	39	126,450
2023	4,617	15,625	295,521	67	420	86	127,904

Historical Values (2014 - 2023):

Col. (11) represents the annual average of the twelve monthly values.

Col. (16) represents actual energy sales including the impacts of existing conservation. These values are at the meter.

Col. (16) = Schedule 2.1 Col. (4) + Schedule 2.1 Col. (7) + Col. (10) + Col. (13) + Col. (14) + Col. (15).

Schedule 2.2
Forecast of Energy Consumption
And Number of Customers by Customer Class

(1)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	Industrial			Railroads &	Street & Highway	Sales to Public	Sales to Ultimate
Year	GWh	Average No. of Customers	Average kWh Consumption Per Customer	Railways GWh	Lighting GWh	Authorities GWh	Consumers GWh
2024	4,773	15,522	307,519	74	438	91	125,612
2025	4,998	15,664	319,103	74	448	91	126,615
2026	5,103	15,720	324,589	74	458	91	127,863
2027	5,125	15,691	326,602	74	468	91	129,052
2028	5,175	15,659	330,466	74	479	91	130,533
2029	5,174	15,642	330,771	74	491	91	132,279
2030	5,170	15,619	331,006	74	491	91	133,974
2031	5,171	15,583	331,845	74	491	91	135,795
2032	5,172	15,532	332,976	74	491	91	137,775
2033	5,172	15,448	334,785	74	491	91	139,668

Projected Values (2024 - 2033):

Col. (10) and Col.(15) represent forecasted energy sales that do not include the impact of incremental conservation. These values are at the meter.

Col. (11) represents the annual average of the twelve monthly values.

Col. (16) = Schedule 2.1 Col. (4) + Schedule 2.1 Col. (7) + Col. (10) + Col. (13) + Col. (14) + Col. (15).

Schedule 2.3
History of Energy Consumption
And Number of Customers by Customer Class

(1)	(17)	(18)	(19)	(20)	(21)
Year	Sales for Resale GWh	Utility Use & Losses GWh	Net Energy For Load GWh	Average No. of Other Customers	Total Average Number of Customers
2014	5,707	6,833	128,004	4,393	5,151,199
2015	6,940	6,906	134,752	4,517	5,222,938
2016	6,953	5,951	133,649	4,603	5,293,419
2017	6,724	6,056	132,460	4,674	5,360,936
2018	7,091	6,227	134,504	4,923	5,426,012
2019	7,571	6,585	137,165	5,357	5,526,409
2020	8,503	6,514	139,183	5,743	5,607,675
2021	7,081	6,779	136,768	6,151	5,691,935
2022	8,476	5,990	140,916	6,688	5,775,850
2023	8,565	7,287	143,756	6,947	5,845,160

Historical Values (2014 - 2023):

Col. (19) represents actual energy sales including the impacts of existing conservation.

Col. (19) = Schedule 2.2 Col. (16) + Col. (17) + Col. (18). Historical NEL includes the impacts of existing conservation and agrees to Col. (5) on schedule 3.3.

Col. (20) represents the annual average of the twelve monthly values.

Col. (21) = Schedule 2.1 Col. (5) + Schedule 2.1 Col. (8) + Schedule 2.2 Col. (11) + Col. (20)

Schedule 2.3
Forecast of Energy Consumption
And Number of Customers by Customer Class

(1)	(17)	(18)	(19)	(20)	(21)
Year	Sales for Resale GWh	Utility se & Losses GWh	Net Energy For Load GWh	Average No. of Other Customers	Total Average Number of Customers
2024	8,524	6,328	140,464	7,148	5,917,295
2025	8,549	6,591	141,755	7,363	5,992,028
2026	8,551	6,572	142,986	7,609	6,066,470
2027	8,405	6,591	144,048	7,891	6,141,670
2028	7,926	6,638	145,096	8,223	6,216,886
2029	7,521	6,745	146,546	8,613	6,294,098
2030	7,507	6,803	148,285	8,613	6,371,313
2031	6,915	6,863	149,573	8,609	6,448,172
2032	6,917	6,981	151,672	8,609	6,525,390
2033	6,942	7,070	153,681	8,609	6,603,239

Projected Values (2024 - 2033):

Col. (19) represents forecasted energy sales that do not include the impact of incremental conservation and agrees to Col. (2) on Schedule 3.3.

Col. (19) = Schedule 2.2 Col. (16) + Col. (17) + Col. (18).

Col. (20) represents the annual average of the twelve monthly values.

Col. (21) = Schedule 2.1 Col. (5) + Schedule 2.1 Col. (8)
+ Schedule 2.2 Col. (11) + Col. (20).

Duke Energy Florida, LLC
Ten-Year Site Plan

April 2024

2024-2033

Submitted to:
Florida Public Service Commission



DUKE ENERGY FLORIDA

SCHEDULE 2.1.1

HISTORY AND FORECAST OF ENERGY CONSUMPTION AND

NUMBER OF CUSTOMERS BY CUSTOMER CLASS

BASE CASE FORECAST

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	RURAL AND RESIDENTIAL					COMMERCIAL		
YEAR	DEF POPULATION	MEMBERS PER HOUSEHOLD	GWh	AVERAGE NO. OF CUSTOMERS	AVERAGE KWh CONSUMPTION PER CUSTOMER	GWh	AVERAGE NO. OF CUSTOMERS	AVERAGE KWh CONSUMPTION PER CUSTOMER
HISTORY:								
2014	3,747,160	2.492	19,003	1,503,758	12,637	11,789	167,253	70,485
2015	3,794,138	2.489	19,932	1,524,605	13,074	12,070	169,147	71,359
2016	3,837,436	2.485	20,265	1,543,967	13,126	12,094	170,999	70,724
2017	3,906,975	2.483	19,791	1,573,260	12,579	11,918	173,695	68,612
2018	3,968,241	2.485	20,636	1,597,132	12,920	12,172	175,848	69,216
2019	4,037,435	2.483	20,775	1,626,117	12,776	12,198	178,036	68,514
2020	4,089,498	2.471	21,459	1,655,304	12,964	11,522	179,666	64,129
2021	4,130,929	2.448	21,192	1,687,471	12,558	11,785	182,195	64,686
2022	4,253,325	2.473	21,508	1,719,905	12,505	12,220	184,453	66,248
2023	4,308,553	2.457	21,750	1,753,583	12,403	12,450	186,524	66,749
FORECAST:								
2024	4,338,254	2.439	21,660	1,778,702	12,177	12,031	189,760	63,400
2025	4,383,772	2.420	21,850	1,811,476	12,062	12,232	192,439	63,564
2026	4,431,461	2.403	21,583	1,844,137	11,704	12,268	195,108	62,879
2027	4,481,068	2.388	21,717	1,876,494	11,573	12,383	197,753	62,617
2028	4,534,352	2.375	21,981	1,909,201	11,513	12,599	200,426	62,859
2029	4,591,824	2.364	22,446	1,942,396	11,556	12,849	203,140	63,252
2030	4,651,193	2.354	22,949	1,975,868	11,614	13,097	205,875	63,617
2031	4,711,426	2.345	23,390	2,009,137	11,642	13,322	208,595	63,865
2032	4,772,194	2.337	23,646	2,042,017	11,580	13,568	211,282	64,217
2033	4,830,765	2.329	24,422	2,074,180	11,774	13,847	213,911	64,734

DUKE ENERGY FLORIDA

SCHEDULE 2.1.2

HISTORY AND FORECAST OF ENERGY CONSUMPTION AND

NUMBER OF CUSTOMERS BY CUSTOMER CLASS

HIGH CASE FORECAST

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	RURAL AND RESIDENTIAL					COMMERCIAL		
YEAR	DEF POPULATION	MEMBERS PER HOUSEHOLD	GWh	AVERAGE NO. OF CUSTOMERS	AVERAGE KWh CONSUMPTION PER CUSTOMER	GWh	AVERAGE NO. OF CUSTOMERS	AVERAGE KWh CONSUMPTION PER CUSTOMER
HISTORY:								
2014	3,747,160	2.492	19,003	1,503,758	12,637	11,789	167,253	70,485
2015	3,794,138	2.489	19,932	1,524,605	13,074	12,070	169,147	71,359
2016	3,837,436	2.485	20,265	1,543,967	13,126	12,094	170,999	70,724
2017	3,906,975	2.483	19,791	1,573,260	12,579	11,918	173,695	68,612
2018	3,968,241	2.485	20,636	1,597,132	12,920	12,172	175,848	69,216
2019	4,037,435	2.483	20,775	1,626,117	12,776	12,198	178,036	68,514
2020	4,089,498	2.471	21,459	1,655,304	12,964	11,522	179,666	64,129
2021	4,130,929	2.448	21,192	1,687,471	12,558	11,785	182,195	64,686
2022	4,253,325	2.473	21,508	1,719,905	12,505	12,220	184,453	66,248
2023	4,308,553	2.457	21,750	1,753,583	12,403	12,450	186,524	66,749
FORECAST:								
2024	4,352,608	2.439	24,377	1,784,587	13,660	12,719	190,241	66,858
2025	4,413,787	2.420	24,708	1,823,879	13,547	12,977	193,453	67,080
2026	4,469,921	2.403	24,607	1,860,142	13,228	13,052	196,417	66,452
2027	4,526,156	2.388	24,808	1,895,375	13,088	13,213	199,296	66,301
2028	4,586,538	2.375	25,175	1,931,174	13,036	13,444	202,222	66,484
2029	4,651,704	2.364	25,613	1,967,726	13,017	13,650	205,210	66,516
2030	4,719,116	2.354	26,146	2,004,722	13,042	13,880	208,234	66,658
2031	4,786,708	2.345	26,627	2,041,240	13,045	14,107	211,218	66,790
2032	4,853,400	2.337	26,977	2,076,765	12,990	14,351	214,122	67,024
2033	4,916,610	2.329	27,723	2,111,039	13,133	14,617	216,923	67,382

DUKE ENERGY FLORIDA

SCHEDULE 2.1.3

HISTORY AND FORECAST OF ENERGY CONSUMPTION AND

NUMBER OF CUSTOMERS BY CUSTOMER CLASS

LOW CASE FORECAST

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	RURAL AND RESIDENTIAL					COMMERCIAL		
YEAR	DEF POPULATION	MEMBERS PER HOUSEHOLD	GWh	AVERAGE NO. OF CUSTOMERS	AVERAGE KWh CONSUMPTION PER CUSTOMER	GWh	AVERAGE NO. OF CUSTOMERS	AVERAGE KWh CONSUMPTION PER CUSTOMER
HISTORY:								
2014	3,747,160	2.492	19,003	1,503,758	12,637	11,789	167,253	70,485
2015	3,794,138	2.489	19,932	1,524,605	13,074	12,070	169,147	71,359
2016	3,837,436	2.485	20,265	1,543,967	13,126	12,094	170,999	70,724
2017	3,906,975	2.483	19,791	1,573,260	12,579	11,918	173,695	68,612
2018	3,968,241	2.485	20,636	1,597,132	12,920	12,172	175,848	69,216
2019	4,037,435	2.483	20,775	1,626,117	12,776	12,198	178,036	68,514
2020	4,089,498	2.471	21,459	1,655,304	12,964	11,522	179,666	64,129
2021	4,130,929	2.448	21,192	1,687,471	12,558	11,785	182,195	64,686
2022	4,253,325	2.473	21,508	1,719,905	12,505	12,220	184,453	66,248
2023	4,308,553	2.457	21,750	1,753,583	12,403	12,450	186,524	66,749
FORECAST:								
2024	4,336,457	2.439	19,369	1,777,965	10,894	11,583	189,700	61,060
2025	4,377,461	2.420	19,473	1,808,868	10,765	11,679	192,226	60,757
2026	4,415,587	2.403	19,370	1,837,531	10,541	11,828	194,569	60,792
2027	4,453,353	2.388	19,550	1,864,888	10,483	12,021	196,805	61,082
2028	4,496,433	2.375	19,840	1,893,235	10,479	12,251	199,121	61,527
2029	4,546,275	2.364	20,183	1,923,128	10,495	12,459	201,565	61,811
2030	4,600,010	2.354	20,572	1,954,125	10,528	12,693	204,098	62,191
2031	4,655,643	2.345	20,909	1,985,349	10,532	12,908	206,650	62,464
2032	4,711,960	2.337	21,129	2,016,243	10,479	13,139	209,175	62,812
2033	4,767,593	2.329	21,739	2,047,056	10,620	13,388	211,694	63,242

DUKE ENERGY FLORIDA

SCHEDULE 2.2.1

HISTORY AND FORECAST OF ENERGY CONSUMPTION AND

NUMBER OF CUSTOMERS BY CUSTOMER CLASS

BASE CASE FORECAST

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		INDUSTRIAL					
		AVERAGE	AVERAGE KWh	RAILROADS	STREET & HIGHWAY	OTHER SALES TO PUBLIC	TOTAL SALES TO ULTIMATE
YEAR	GWh	NO. OF CUSTOMERS	PER CUSTOMER	AND RAILWAYS GWh	LIGHTING GWh	AUTHORITIES GWh	CONSUMERS GWh
HISTORY:							
2014	3,267	2,280	1,432,895	0	25	3,157	37,240
2015	3,293	2,243	1,468,123	0	24	3,234	38,553
2016	3,197	2,178	1,467,860	0	24	3,194	38,774
2017	3,120	2,137	1,459,991	0	24	3,171	38,023
2018	3,107	2,080	1,493,750	0	24	3,206	39,144
2019	2,963	2,025	1,463,210	0	24	3,227	39,187
2020	3,147	1,999	1,574,287	0	23	3,079	39,230
2021	3,292	1,978	1,664,307	0	24	3,158	39,451
2022	3,508	1,868	1,877,916	0	33	3,244	40,512
2023	3,396	1,773	1,915,141	0	31	3,205	40,832
FORECAST:							
2024	3,230	1,786	1,808,343	0	31	3,111	40,063
2025	3,360	1,765	1,903,655	0	31	3,185	40,658
2026	3,423	1,758	1,946,910	0	30	3,185	40,489
2027	3,453	1,756	1,966,388	0	29	3,196	40,777
2028	3,507	1,759	1,993,696	0	29	3,220	41,336
2029	3,500	1,762	1,986,265	0	28	3,234	42,057
2030	3,509	1,764	1,989,180	0	28	3,249	42,832
2031	3,515	1,767	1,989,291	0	27	3,239	43,493
2032	3,523	1,772	1,987,977	0	26	3,232	43,995
2033	3,288	1,776	1,851,436	0	26	3,231	44,815

DUKE ENERGY FLORIDA

SCHEDULE 2.2.2

HISTORY AND FORECAST OF ENERGY CONSUMPTION AND

NUMBER OF CUSTOMERS BY CUSTOMER CLASS

HIGH CASE FORECAST

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		INDUSTRIAL					
					STREET &	OTHER SALES	TOTAL SALES
		AVERAGE	AVERAGE KWh	RAILROADS	HIGHWAY	TO PUBLIC	TO ULTIMATE
YEAR	GWh	NO. OF CUSTOMERS	CONSUMPTION PER CUSTOMER	AND RAILWAYS GWh	LIGHTING GWh	AUTHORITIES GWh	CONSUMERS GWh
HISTORY:							
2014	3,267	2,280	1,432,895	0	25	3,157	37,240
2015	3,293	2,243	1,468,123	0	24	3,234	38,553
2016	3,197	2,178	1,467,860	0	24	3,194	38,774
2017	3,120	2,137	1,459,991	0	24	3,171	38,023
2018	3,107	2,080	1,493,750	0	24	3,206	39,144
2019	2,963	2,025	1,463,210	0	24	3,227	39,187
2020	3,147	1,999	1,574,287	0	23	3,079	39,230
2021	3,292	1,978	1,664,307	0	24	3,158	39,451
2022	3,508	1,868	1,877,916	0	33	3,244	40,512
2023	3,396	1,773	1,915,141	0	31	3,205	40,832
FORECAST:							
2024	3,266	1,786	1,828,571	0	31	3,177	43,570
2025	3,398	1,765	1,924,953	0	31	3,251	44,363
2026	3,460	1,758	1,967,978	0	30	3,249	44,398
2027	3,489	1,756	1,986,894	0	29	3,254	44,794
2028	3,543	1,759	2,014,133	0	29	3,275	45,465
2029	3,536	1,762	2,006,629	0	28	3,277	46,104
2030	3,545	1,764	2,009,498	0	28	3,284	46,883
2031	3,551	1,767	2,009,524	0	27	3,268	47,580
2032	3,558	1,772	2,008,105	0	26	3,254	48,168
2033	3,324	1,776	1,871,458	0	26	3,246	48,936

DUKE ENERGY FLORIDA

SCHEDULE 2.2.3

HISTORY AND FORECAST OF ENERGY CONSUMPTION AND

NUMBER OF CUSTOMERS BY CUSTOMER CLASS

LOW CASE FORECAST

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		INDUSTRIAL					
		AVERAGE	AVERAGE KWh	RAILROADS	STREET & HIGHWAY	OTHER SALES TO PUBLIC	TOTAL SALES TO ULTIMATE
YEAR	GWh	NO. OF CUSTOMERS	PER CUSTOMER	AND RAILWAYS GWh	LIGHTING GWh	AUTHORITIES GWh	CONSUMERS GWh
HISTORY:							
2014	3,267	2,280	1,432,895	0	25	3,157	37,240
2015	3,293	2,243	1,468,123	0	24	3,234	38,553
2016	3,197	2,178	1,467,860	0	24	3,194	38,774
2017	3,120	2,137	1,459,991	0	24	3,171	38,023
2018	3,107	2,080	1,493,750	0	24	3,206	39,144
2019	2,963	2,025	1,463,210	0	24	3,227	39,187
2020	3,147	1,999	1,574,287	0	23	3,079	39,230
2021	3,292	1,978	1,664,307	0	24	3,158	39,451
2022	3,508	1,868	1,877,916	0	33	3,244	40,512
2023	3,396	1,773	1,915,141	0	31	3,205	40,832
FORECAST:							
2024	3,202	1,786	1,792,981	0	31	3,030	37,216
2025	3,334	1,765	1,888,814	0	31	3,098	37,615
2026	3,400	1,758	1,934,233	0	30	3,086	37,715
2027	3,432	1,756	1,954,492	0	29	3,089	38,122
2028	3,487	1,759	1,982,346	0	29	3,106	38,712
2029	3,480	1,762	1,974,753	0	28	3,118	39,268
2030	3,488	1,764	1,977,382	0	28	3,134	39,914
2031	3,494	1,767	1,977,407	0	27	3,116	40,454
2032	3,502	1,772	1,976,094	0	26	3,102	40,898
2033	3,267	1,776	1,839,499	0	26	3,094	41,515

DUKE ENERGY FLORIDA

SCHEDULE 2.3.1

HISTORY AND FORECAST OF ENERGY CONSUMPTION AND
NUMBER OF CUSTOMERS BY CUSTOMER CLASS

BASE CASE FORECAST

(1)	(2)	(3)	(4)	(5)	(6)
YEAR	SALES FOR RESALE GWh	UTILITY USE & LOSSES GWh	NET ENERGY FOR LOAD GWh	OTHER CUSTOMERS (AVERAGE NO.)	TOTAL NO. OF CUSTOMERS
HISTORY:					
2014	1,333	2,402	40,975	25,800	1,699,091
2015	1,243	2,484	42,280	25,866	1,721,861
2016	1,803	2,277	42,854	26,005	1,743,149
2017	2,196	2,700	42,919	26,248	1,775,340
2018	2,304	2,776	44,224	26,504	1,801,564
2019	2,910	2,704	44,801	26,707	1,832,885
2020	2,887	2,697	44,814	26,845	1,863,814
2021	3,302	2,311	45,064	27,082	1,898,726
2022	3,673	1,956	46,141	26,834	1,933,060
2023	1,396	1,821	44,049	26,343	1,968,222
FORECAST:					
2024	1,119	2,237	43,418	26,304	1,996,552
2025	904	1,956	43,519	26,402	2,032,082
2026	904	2,190	43,584	26,501	2,067,504
2027	900	2,098	43,775	26,586	2,102,589
2028	889	2,279	44,504	26,680	2,138,066
2029	887	2,177	45,121	26,765	2,174,063
2030	887	2,258	45,977	26,847	2,210,354
2031	70	2,260	45,824	26,926	2,246,425
2032	71	2,536	46,602	27,014	2,282,085
2033	70	2,209	47,094	27,110	2,316,977

DUKE ENERGY FLORIDA

SCHEDULE 2.3.2

HISTORY AND FORECAST OF ENERGY CONSUMPTION AND
NUMBER OF CUSTOMERS BY CUSTOMER CLASS

HIGH CASE FORECAST

(1)	(2)	(3)	(4)	(5)	(6)
YEAR	SALES FOR RESALE GWh	UTILITY USE & LOSSES GWh	NET ENERGY FOR LOAD GWh	OTHER CUSTOMERS (AVERAGE NO.)	TOTAL NO. OF CUSTOMERS
HISTORY:					
2014	1,333	2,402	40,975	25,800	1,699,091
2015	1,243	2,484	42,280	25,866	1,721,861
2016	1,803	2,277	42,854	26,005	1,743,149
2017	2,196	2,700	42,919	26,248	1,775,340
2018	2,304	2,776	44,224	26,504	1,801,564
2019	2,910	2,704	44,801	26,707	1,832,885
2020	2,887	2,697	44,814	26,845	1,863,814
2021	3,302	2,311	45,064	27,082	1,898,726
2022	3,673	1,956	46,141	26,834	1,933,060
2023	1,396	1,821	44,049	26,343	1,968,222
FORECAST:					
2024	1,119	2,799	47,488	26,108	2,002,722
2025	904	2,584	47,852	26,148	2,045,245
2026	904	2,775	48,077	26,243	2,084,560
2027	900	2,731	48,425	26,321	2,122,748
2028	889	2,894	49,248	26,401	2,161,556
2029	887	2,823	49,814	26,432	2,201,130
2030	887	2,902	50,671	26,474	2,241,194
2031	70	2,922	50,572	26,524	2,280,749
2032	71	3,136	51,375	26,570	2,319,229
2033	70	2,905	51,911	26,626	2,356,364

DUKE ENERGY FLORIDA

SCHEDULE 2.3.3

HISTORY AND FORECAST OF ENERGY CONSUMPTION AND
NUMBER OF CUSTOMERS BY CUSTOMER CLASS

LOW CASE FORECAST

(1)	(2)	(3)	(4)	(5)	(6)
YEAR	SALES FOR RESALE GWh	UTILITY USE & LOSSES GWh	NET ENERGY FOR LOAD GWh	OTHER CUSTOMERS (AVERAGE NO.)	TOTAL NO. OF CUSTOMERS
HISTORY:					
2014	1,333	2,402	40,975	25,800	1,699,091
2015	1,243	2,484	42,280	25,866	1,721,861
2016	1,803	2,277	42,854	26,005	1,743,149
2017	2,196	2,700	42,919	26,248	1,775,340
2018	2,304	2,776	44,224	26,504	1,801,564
2019	2,910	2,704	44,801	26,707	1,832,885
2020	2,887	2,697	44,814	26,845	1,863,814
2021	3,302	2,311	45,064	27,082	1,898,726
2022	3,673	1,956	46,141	26,834	1,933,060
2023	1,396	1,821	44,049	26,343	1,968,222
FORECAST:					
2024	1,119	1,760	40,094	26,056	1,995,507
2025	904	1,512	40,031	26,062	2,028,921
2026	904	1,688	40,308	26,038	2,059,896
2027	900	1,640	40,662	26,071	2,089,520
2028	889	1,782	41,383	26,118	2,120,233
2029	887	1,701	41,856	26,217	2,152,672
2030	887	1,762	42,564	26,318	2,186,305
2031	70	1,770	42,294	26,364	2,220,130
2032	71	1,961	42,929	26,405	2,253,595
2033	70	1,732	43,317	26,471	2,286,997

DUKE ENERGY FLORIDA

SCHEDULE 3.1.1

HISTORY AND FORECAST OF SUMMER PEAK DEMAND (MW)

BASE CASE FORECAST

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(OTH)	(10)
YEAR	TOTAL	WHOLESALE	RETAIL	INTERRUPTIBLE	RESIDENTIAL LOAD MANAGEMENT	RESIDENTIAL CONSERVATION	COMM. / IND. LOAD MANAGEMENT	COMM. / IND. CONSERVATION	OTHER DEMAND REDUCTIONS	NET FIRM DEMAND
HISTORY:										
2014	10,067	814	9,253	232	355	404	108	313	132	8,523
2015	10,058	772	9,286	303	360	435	124	324	80	8,431
2016	10,530	893	9,637	235	366	466	100	339	80	8,946
2017	10,220	808	9,412	203	342	498	95	349	80	8,653
2018	10,271	812	9,459	257	386	532	83	387	80	8,545
2019	11,029	1021	10,008	230	394	566	86	414	80	9,260
2020	10,765	901	9,864	250	393	599	83	440	80	8,921
2021	10,835	1,010	9,825	375	394	623	85	451	80	8,826
2022	11,012	1,045	9,966	341	361	513	85	441	80	9,190
2023	11,357	827	10,530	476	352	550	88	459	80	9,352
FORECAST:										
2024	10,958	730	10,228	402	358	566	91	461	80	9,000
2025	10,824	451	10,372	402	364	581	94	467	80	8,836
2026	10,805	451	10,354	402	370	593	97	473	80	8,790
2027	10,822	451	10,371	402	376	605	100	477	80	8,781
2028	10,969	451	10,518	402	377	618	103	480	80	8,908
2029	11,174	451	10,723	402	378	630	107	484	80	9,093
2030	11,361	451	10,910	402	379	642	110	488	80	9,260
2031	11,493	401	11,093	402	380	653	113	492	80	9,374
2032	11,733	401	11,332	402	381	663	116	496	80	9,595
2033	11,967	401	11,566	402	382	674	119	499	80	9,811

Historical Values (2014 - 2023):

Col. (2) = recorded peak + implemented load control + residential and commercial/industrial conservation and customer-owned self-service cogeneration.

Cols. (5) - (9) = Represent total cumulative capabilities at peak. Col. (8) includes commercial load management and standby generation.

Col. (OTH) =Customer-owned self-service cogeneration.

Col. (10) = (2) - (5) - (6) - (7) - (8) - (9) - (OTH).

Projected Values (2024 - 2033):

Cols. (2) - (4) = forecasted peak without load control, cumulative conservation, and customer-owned self-service cogeneration.

Cols. (5) - (9) = cumulative conservation and load control capabilities at peak. Col. (8) includes commercial load management and standby generation.

Col. (OTH) = customer-owned self-service cogeneration.

Col. (10) = (2) - (5) - (6) - (7) - (8) - (9) - (OTH).

TAMPA ELECTRIC COMPANY
UNDOCKETED: REVIEW OF
TYSP'S FIRST DATA REQUEST
REQUEST NO. 1
BATES PAGE(S): 1-108
FILED: APRIL 1, 2024



Schedule 2.1

History and Forecast of Energy Consumption and Number of Customers by Customer Class
Base Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Rural and Residential					Commercial		
Year	Hillsborough County Population	Members Per Household	GWH	Customers*	Average KWH Consumption Per Customer	GWH	Customers*	Average KWH Consumption Per Customer
	1,301,887	2.6	8,656	623,846	13,875	6,142	72,647	84,548
2015	1,325,563	2.6	9,045	635,403	14,235	6,301	73,556	85,658
2016	1,352,797	2.6	9,187	646,221	14,217	6,310	74,313	84,911
2017	1,379,302	2.6	9,029	659,387	13,693	6,362	74,998	84,830
2018	1,408,864	2.6	9,418	670,517	14,046	6,266	74,895	83,664
2019	1,444,870	2.6	9,584	685,122	13,989	6,239	76,038	82,057
2020	1,459,762	2.6	10,122	698,493	14,491	6,058	76,790	78,890
2021	1,490,374	2.6	9,941	713,135	13,940	6,144	78,115	78,653
2022	1,520,529	2.6	10,109	729,334	13,861	6,300	79,610	79,131
2023	1,541,531	2.6	10,307	742,575	13,880	6,462	80,622	80,154
2024	1,569,983	2.6	10,200	755,744	13,497	6,289	81,520	77,145
2025	1,597,332	2.5	10,299	768,913	13,395	6,351	82,465	77,013
2026	1,624,239	2.5	10,413	781,870	13,318	6,415	83,413	76,907
2027	1,650,693	2.5	10,534	794,608	13,257	6,470	84,369	76,687
2028	1,676,455	2.5	10,662	807,013	13,212	6,524	85,342	76,451
2029	1,701,455	2.5	10,801	819,051	13,187	6,579	86,323	76,218
2030	1,725,605	2.5	10,948	830,679	13,179	6,634	87,304	75,982
2031	1,748,484	2.5	11,096	841,697	13,183	6,691	88,287	75,792
2032	1,770,488	2.5	11,249	852,292	13,198	6,752	89,270	75,641
2033	1,791,686	2.4	11,403	862,499	13,221	6,813	90,256	75,484

Notes:
December 31, 2023 Status
*Average of end-of-month customers for the calendar year.
Values shown may be affected due to rounding.

Schedule 2.1

History and Forecast of Energy Consumption and Number of Customers by Customer Class
High Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Rural and Residential					Commercial		
Year	Hillsborough County Population	Members Per Household	GWH	Customers*	Average KWH Consumption Per Customer	GWH	Customers*	Average KWH Consumption Per Customer
2024	1,585,472	2.6	10,261	759,455	13,511	6,292	81,539	77,164
2025	1,621,017	2.6	10,421	776,487	13,421	6,356	82,504	77,039
2026	1,656,429	2.6	10,598	793,455	13,357	6,422	83,472	76,942
2027	1,691,690	2.6	10,785	810,351	13,309	6,480	84,447	76,729
2028	1,726,550	2.6	10,982	827,055	13,278	6,536	85,443	76,499
2029	1,760,929	2.6	11,191	843,528	13,267	6,594	86,445	76,274
2030	1,794,728	2.6	11,410	859,723	13,272	6,650	87,449	76,046
2031	1,827,498	2.6	11,633	875,425	13,289	6,711	88,455	75,864
2032	1,859,633	2.6	11,863	890,823	13,317	6,774	89,462	75,719
2033	1,891,196	2.6	12,096	905,947	13,352	6,837	90,473	75,570

Notes:
*Average of end-of-month customers for the calendar year.
Values shown may be affected due to rounding.

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Schedule 2.1

History and Forecast of Energy Consumption and Number of Customers by Customer Class
Low Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Rural and Residential					Commercial		
Year	Hillsborough County Population	Members Per Household	GWH	Customers*	Average KWH Consumption Per Customer	GWH	Customers*	Average KWH Consumption Per Customer
2024	1,554,570	2.5	10,140	752,032	13,483	6,286	81,502	77,127
2025	1,573,878	2.5	10,178	761,375	13,368	6,346	82,428	76,985
2026	1,592,521	2.5	10,229	770,397	13,278	6,408	83,356	76,873
2027	1,610,496	2.4	10,287	779,095	13,204	6,460	84,291	76,645
2028	1,627,578	2.4	10,350	787,362	13,146	6,513	85,244	76,402
2029	1,643,710	2.4	10,423	795,168	13,107	6,565	86,203	76,162
2030	1,658,822	2.4	10,502	802,481	13,086	6,617	87,163	75,919
2031	1,672,522	2.4	10,581	809,111	13,077	6,673	88,124	75,722
2032	1,685,208	2.3	10,663	815,249	13,080	6,731	89,085	75,562
2033	1,696,958	2.3	10,746	820,935	13,090	6,789	90,048	75,398

Notes:
*Average of end-of-month customers for the calendar year.
Values shown may be affected due to rounding.

TAMPA ELECTRIC COMPANY
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Schedule 2.2

History and Forecast of Energy Consumption and Number of Customers by Customer Class
Base Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Industrial						
Year	GWH	Customers*	Average KWH Consumption Per Customer	Railroads and Railways GWH	Street & Highway Lighting GWH **	Other Sales to Public Authorities GWH	Total Sales to Ultimate Consumers GWH
2014	1,901	1,572	1,208,831	0	75	1,752	18,526
2015	1,870	1,586	1,179,087	0	77	1,714	19,006
2016	1,928	1,616	1,193,504	0	78	1,730	19,234
2017	2,024	1,608	1,259,094	0	0	1,771	19,186
2018	2,014	1,588	1,268,262	0	0	1,933	19,631
2019	2,021	1,516	1,332,913	0	0	1,939	19,783
2020	1,891	1,408	1,342,642	0	0	1,883	19,954
2021	2,122	1,382	1,535,835	0	0	1,886	20,093
2022	2,111	1,357	1,556,126	0	0	1,947	20,467
2023	2,082	1,330	1,565,053	0	0	1,939	20,791
2024	1,856	1,327	1,398,511	0	0	1,970	20,315
2025	1,837	1,325	1,386,481	0	0	1,979	20,466
2026	1,834	1,323	1,386,313	0	0	1,989	20,651
2027	1,833	1,322	1,387,137	0	0	1,998	20,835
2028	1,833	1,320	1,388,348	0	0	2,008	21,027
2029	1,832	1,319	1,389,525	0	0	2,017	21,229
2030	1,831	1,317	1,389,863	0	0	2,026	21,438
2031	1,830	1,316	1,390,405	0	0	2,036	21,653
2032	1,829	1,315	1,390,860	0	0	2,045	21,875
2033	1,828	1,314	1,391,549	0	0	2,055	22,098

Notes:
December 31, 2023 Status
*Average of end-of-month customers for the calendar year.
**Sales shown for Street and Highway Lighting from 2017 forward are now included with Other Sales to Public Authorities.
Values shown may be affected due to rounding.

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Schedule 2.2

History and Forecast of Energy Consumption and Number of Customers by Customer Class
High Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Industrial						
Year	GWH	Customers*	Average KWH Consumption Per Customer	Railroads and Railways GWH	Street & Highway Lighting GWH **	Other Sales to Public Authorities GWH	Total Sales to Ultimate Consumers GWH
2024	1,856	1,327	1,398,711	0	0	1,970	20,379
2025	1,837	1,325	1,386,061	0	0	1,979	20,593
2026	1,834	1,323	1,386,195	0	0	1,989	20,844
2027	1,833	1,322	1,386,648	0	0	1,998	21,096
2028	1,833	1,320	1,388,487	0	0	2,008	21,359
2029	1,832	1,319	1,389,182	0	0	2,017	21,634
2030	1,831	1,317	1,390,211	0	0	2,027	21,918
2031	1,830	1,316	1,390,421	0	0	2,036	22,209
2032	1,829	1,315	1,390,665	0	0	2,045	22,511
2033	1,828	1,314	1,391,083	0	0	2,055	22,816

Notes:
*Average of end-of-month customers for the calendar year.
**Sales for Street and Highway Lighting from 2017 forward are now included with Other Sales to Public Authorities.
Values shown may be affected due to rounding.

TAMPA ELECTRIC COMPANY
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Schedule 2.2

History and Forecast of Energy Consumption and Number of Customers by Customer Class
Low Case

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Industrial						
Year	GWH	Customers*	Average KWH Consumption Per Customer	Railroads and Railways GWH	Street & Highway Lighting GWH **	Other Sales to Public Authorities GWH	Total Sales to Ultimate Consumers GWH
2024	1,856	1,327	1,398,711	0	0	1,970	20,251
2025	1,837	1,325	1,386,061	0	0	1,979	20,340
2026	1,834	1,323	1,386,195	0	0	1,989	20,460
2027	1,833	1,322	1,386,648	0	0	1,998	20,579
2028	1,833	1,320	1,388,487	0	0	2,007	20,703
2029	1,832	1,319	1,389,182	0	0	2,017	20,837
2030	1,831	1,317	1,390,211	0	0	2,026	20,976
2031	1,830	1,316	1,390,421	0	0	2,035	21,119
2032	1,829	1,315	1,390,665	0	0	2,045	21,268
2033	1,828	1,314	1,391,083	0	0	2,054	21,417

Notes:
*Average of end-of-month customers for the calendar year.
**Sales for Street and Highway Lighting from 2017 forward are now included with Other Sales to Public Authorities.
Values shown may be affected due to rounding.

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Schedule 2.3

History and Forecast of Energy Consumption and Number of Customers by Customer Class
Base Case

(1)	(2)	(3)	(4)	(5)	(6)
Year	Sales for * Resale GWH	Utility Use ** & Losses GWH	Net Energy *** for Load GWH	Other **** Customers	Total **** Customers
2014	0	789	19,315	8,095	706,161
2015	0	1,098	20,105	8,168	718,713
2016	9	930	20,173	8,353	730,503
2017	2	1,110	20,298	8,698	744,690
2018	0	1,031	20,662	9,254	756,254
2019	0	986	20,770	9,283	771,960
2020	0	1,101	21,055	9,356	786,047
2021	0	940	21,033	9,418	802,049
2022	0	1,105	21,572	9,466	819,766
2023	0	976	21,767	9,616	834,144
2024	0	1,040	21,355	9,668	848,259
2025	0	1,047	21,513	9,740	862,443
2026	0	1,056	21,706	9,810	876,416
2027	0	1,065	21,900	9,879	890,177
2028	0	1,074	22,100	9,947	903,622
2029	0	1,083	22,313	10,015	916,774
2030	0	1,094	22,532	10,082	929,450
2031	0	1,104	22,757	10,149	941,516
2032	0	1,115	22,990	10,217	953,161
2033	0	1,126	23,224	10,284	954,069

Notes:
December 31, 2023 Status
*Includes sales to St. Cloud (STC), Reedy Creek (RCID) and Florida Power & Light (FPL).
RCID contract from 2016 to 2017.
**Utility Use and Losses include accrued sales.
***Net Energy for Load includes output to line including energy supplied by purchased cogeneration.
****Average of end-of-month customers for the calendar year.
Values shown may be affected due to rounding.

Schedule 2.3

History and Forecast of Energy Consumption and Number of Customers by Customer Class
High Case

(1)	(2)	(3)	(4)	(5)	(6)
Year	Sales for Resale GWH	Utility Use * & Losses GWH	Net Energy ** for Load GWH	Other *** Customers	Total *** Customers
2024	0	1,043	21,422	9,668	851,989
2025	0	1,054	21,647	9,740	870,056
2026	0	1,065	21,909	9,810	888,060
2027	0	1,078	22,174	9,879	905,999
2028	0	1,090	22,449	9,947	923,765
2029	0	1,104	22,738	10,015	941,307
2030	0	1,118	23,036	10,082	958,571
2031	0	1,133	23,342	10,149	975,345
2032	0	1,147	23,658	10,217	991,817
2033	0	1,163	23,979	10,284	1,008,018

Notes:
*Utility Use and Losses include accrued sales.
**Net Energy for Load includes output to line including energy supplied by purchased cogeneration.
***Average of end-of-month customers for the calendar year.
Values shown may be affected due to rounding.

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Schedule 2.3

History and Forecast of Energy Consumption and Number of Customers by Customer Class
Low Case

(1)	(2)	(3)	(4)	(5)	(6)
Year	Sales for Resale GWH	Utility Use * & Losses GWH	Net Energy ** for Load GWH	Other *** Customers	Total *** Customers
2024	0	1,037	21,288	9,668	844,529
2025	0	1,040	21,380	9,740	854,868
2026	0	1,046	21,506	9,810	864,886
2027	0	1,051	21,630	9,879	874,587
2028	0	1,057	21,760	9,947	883,873
2029	0	1,063	21,900	10,015	892,705
2030	0	1,070	22,046	10,082	901,043
2031	0	1,076	22,195	10,149	908,700
2032	0	1,083	22,351	10,217	915,866
2033	0	1,091	22,508	10,284	922,581

Notes:

*Utility Use and Losses include accrued sales.
**Net Energy for Load includes output to line including energy supplied by purchased cogeneration.
***Average of end-of-month customers for the calendar year.
Values shown may be affected due to rounding.



TEN-YEAR SITE PLAN

April 2024

Schedule 2.1: History and Forecast of Energy Consumption and Number of Customers by Class

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Calendar Year	Rural and Residential			Commercial			Industrial		
	GWH Sales	Average Number of Customers	Average kWh/ Customer	GWH Sales	Average Number of Customers	Average kWh/ Customer	GWH Sales	Average Number of Customers	Average kWh/ Customer
2014	5,162	383,998	13,443	3,882	49,364	78,642	2,785	215	12,984,365
2015	5,197	391,219	13,285	4,001	50,821	78,733	2,806	207	13,531,924
2016	5,351	398,387	13,431	4,064	51,441	78,994	2,692	202	13,322,934
2017	5,199	404,806	12,842	4,011	51,970	77,176	2,777	202	13,717,349
2018	5,460	412,070	13,251	4,042	52,525	76,954	2,765	196	14,081,384
2019	5,479	420,831	13,019	4,060	53,153	76,389	2,733	194	14,085,278
2020	5,679	429,575	13,220	3,886	53,701	72,363	2,698	196	13,759,522
2021	5,551	438,470	12,660	3,848	54,374	70,767	2,612	196	13,348,722
2022	5,723	447,308	12,795	4,005	55,082	72,717	2,708	199	13,641,119
2023	5,658	458,764	12,334	3,968	55,946	70,922	2,614	199	13,151,607
2024	5,738	464,202	12,360	3,976	56,705	70,115	2,702	200	13,508,157
2025	5,824	470,100	12,389	4,004	57,460	69,686	2,718	201	13,521,706
2026	5,904	476,433	12,393	4,040	58,213	69,395	2,722	201	13,542,903
2027	5,972	482,695	12,372	4,078	58,964	69,164	2,742	202	13,574,253
2028	6,032	488,640	12,345	4,118	59,711	68,958	2,748	202	13,604,039
2029	6,091	494,249	12,323	4,155	60,455	68,726	2,766	203	13,627,834
2030	6,146	499,480	12,305	4,190	61,194	68,479	2,769	203	13,641,554
2031	6,196	504,323	12,285	4,226	61,930	68,236	2,785	204	13,650,781
2032	6,240	508,813	12,264	4,262	62,662	68,021	2,785	204	13,654,261
2033	6,280	512,980	12,243	4,297	63,391	67,787	2,785	204	13,652,068

Schedule 2.2: History and Forecast of Energy Consumption and Number of Customers by Class

Calendar Year	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	Street & Highway Lighting	Other Sales to Ultimate Customers	Total Sales to Ultimate Customers	Sales for Resale	Utility Use & Losses	Net Energy for Load	Other Customers	Total Number of Customers
	GWH	GWH	GWH	GWH	GWH	GWH	(Avg. Number)	
2014	105	0	11,934	472	252	12,658	2	433,578
2015	87	0	12,091	392	385	12,868	2	442,249
2016	77	0	12,184	490	263	12,937	2	450,033
2017	63	0	12,050	288	334	12,672	2	456,981
2018	59	0	12,326	82	405	12,813	1	464,793
2019	57	0	12,328	58	411	12,797	0	474,178
2020	56	0	12,319	7	414	12,740	0	483,471
2021	55	0	12,066	25	449	12,540	0	493,039
2022	55	0	12,491	30	408	12,930	0	502,588
2023	55	0	12,295	63	376	12,733	0	514,909
2024	55	0	12,470	0	429	12,899	0	521,107
2025	56	0	12,602	0	434	13,036	0	527,761
2026	57	0	12,723	0	438	13,161	0	534,848
2027	57	0	12,849	0	442	13,291	0	541,861
2028	58	0	12,956	0	446	13,401	0	548,554
2029	58	0	13,070	0	450	13,520	0	554,907
2030	59	0	13,165	0	453	13,618	0	560,878
2031	59	0	13,266	0	456	13,722	0	566,458
2032	60	0	13,348	0	459	13,807	0	571,679
2033	60	0	13,423	0	462	13,885	0	576,574

Schedule 3.1: History and Forecast of Summer Peak Demand

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Calendar Year	Total Net Demand (MW)	Interruptible Load	Load Management		QF Load Served by QF Generation	Cumulative Conservation		Net Firm Peak Demand (MW)
			Residential	Comm/Ind.		Residential	Comm/Ind.	
2014	2,591	0	0	0	0	0	0	2,591
2015	2,618	0	0	0	0	0	0	2,618
2016	2,689	0	0	0	0	0	0	2,689
2017	2,631	0	0	0	0	0	0	2,631
2018	2,495	0	0	0	0	0	0	2,495
2019	2,591	0	0	0	0	0	0	2,591
2020	2,582	0	0	0	0	0	0	2,582
2021	2,511	0	0	0	0	0	0	2,511
2022	2,728	0	0	0	0	0	0	2,728
2023	2,756	0	0	0	0	0	0	2,756
2024	2,713	107	0	0	0	3	3	2,600
2025	2,742	107	0	0	0	6	5	2,624
2026	2,768	107	0	0	0	13	9	2,639
2027	2,794	107	0	0	0	17	11	2,659
2028	2,817	107	0	0	0	20	13	2,677
2029	2,840	107	0	0	0	23	16	2,694
2030	2,858	107	0	0	0	23	16	2,712
2031	2,879	107	0	0	0	25	17	2,730
2032	2,895	107	0	0	0	37	26	2,725
2033	2,910	107	0	0	0	38	26	2,739

Note: All projections coincident at time of peak.

Orlando Utilities Commission

2024 Ten-Year Site Plan

Prepared by:
nFront Consulting LLC
April 2024





Schedule 2.1
History and Forecast of Energy Consumption and Number of Customers by Customer Class

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
			Rural and Residential				Commercial	
Year	Population	Members per Household	GWH	Average No. of Customers	Average KWH Consumption Per Customer	GWH	Average No. of Customers	Average KWH Consumption Per Customer
HISTORY:								
2014	485,016	2.55	2,264	190,279	11,899	379	23,376	16,230
2015	496,659	2.54	2,430	195,606	12,423	393	23,705	16,579
2016	514,813	2.56	2,491	201,424	12,369	401	23,991	16,719
2017	576,536	2.79	2,481	206,959	11,987	424	24,323	17,440
2018	577,895	2.74	2,576	210,899	12,212	475	25,020	18,966
2019	615,376	2.85	2,599	216,113	12,026	474	25,751	18,424
2020	634,982	2.86	2,750	221,756	12,402	459	26,391	17,408
2021	631,387	2.76	2,701	228,707	11,808	461	27,128	16,997
2022	642,220	2.72	2,798	236,057	11,851	484	28,013	17,285
2023	633,874	2.62	2,857	242,199	11,795	506	28,065	18,020
FORECAST:								
2024	654,745	2.65	2,777	247,288	11,230	500	28,427	17,571
2025	672,935	2.68	2,815	251,490	11,192	504	28,763	17,539
2026	688,180	2.69	2,886	256,292	11,261	510	29,068	17,544
2027	700,363	2.68	2,987	261,331	11,431	516	29,363	17,590
2028	712,735	2.68	3,098	266,220	11,637	524	29,654	17,655
2029	725,412	2.68	3,211	271,053	11,847	531	29,936	17,733
2030	737,857	2.67	3,312	275,940	12,003	537	30,206	17,786
2031	749,850	2.67	3,422	280,935	12,180	544	30,464	17,853
2032	761,840	2.66	3,543	285,925	12,390	552	30,713	17,968
2033	773,806	2.66	3,669	290,938	12,610	560	30,953	18,099

Notes:
Represents total of OUC and St. Cloud.

Schedule 2.2
History and Forecast of Energy Consumption and Number of Customers by Customer Class

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Year	GWH	Industrial Average No. of Customers	Average KWH Consumption Per Customer	Railroads and Railways GWH	Street & Highway Lighting GWH	Other Sales to Public Authorities GWH	Total Sales to Ultimate Consumers GWH
HISTORY:							
2014	3,489	5,618	621,007	0	30	29	6,191
2015	3,514	5,793	606,594	0	61	139	6,537
2016	3,506	5,811	603,333	0	61	142	6,601
2017	3,480	5,839	595,929	0	59	124	6,568
2018	3,513	5,709	615,262	0	61	146	6,769
2019	3,544	5,579	635,318	0	61	145	6,823
2020	3,336	5,301	629,406	0	62	131	6,740
2021	3,447	5,210	661,681	0	62	136	6,807
2022	3,557	5,102	697,124	0	63	141	7,042
2023	3,587	5,075	706,729	0	44	162	7,155
FORECAST:							
2024	3,554	5,112	695,214	0	61	141	7,033
2025	3,709	5,160	718,839	0	62	175	7,265
2026	3,799	5,204	730,066	0	62	194	7,452
2027	3,846	5,247	732,967	0	62	195	7,607
2028	3,896	5,287	736,913	0	63	196	7,776
2029	3,960	5,327	743,333	0	63	197	7,962
2030	4,047	5,364	754,402	0	63	198	8,157
2031	4,094	5,397	758,530	0	63	199	8,322
2032	4,150	5,430	764,241	0	64	200	8,508
2033	4,209	5,461	770,718	0	64	201	8,702

Notes:
Represents total of OUC and St. Cloud.

Schedule 2.3
History and Forecast of Energy Consumption and Number of Customers by Customer Class

(1)	(2)	(3)	(4)	(5)	(6)
Year	Sales for Resale GWH	Utility Use & Losses GWH	Net Energy for Load GWH	Other Customers (Average No.)	Total No. of Customers
HISTORY:					
2014	1,000	332	7,523	0	219,272
2015	1,317	268	8,122	0	225,104
2016	1,100	278	7,979	0	231,226
2017	1,032	302	7,902	0	237,121
2018	1,040	189	7,998	0	241,628
2019	644	295	7,762	0	247,443
2020	665	220	7,625	0	253,448
2021	534	206	7,547	0	261,045
2022	505	217	7,764	0	269,172
2023	578	239	7,972	0	275,339
FORECAST:					
2024	635	229	7,896	0	280,827
2025	592	233	8,090	0	285,413
2026	243	239	7,933	0	290,564
2027	147	247	8,001	0	295,941
2028	112	254	8,143	0	301,161
2029	114	262	8,337	0	306,316
2030	116	269	8,542	0	311,510
2031	0	276	8,598	0	316,796
2032	0	284	8,791	0	322,068
2033	0	292	8,994	0	327,352

Notes:
Represents total of OUC and St. Cloud.
Historical "Sales for Resale" includes sales to various entities to which OUC provided power.
Forecast "Sales for Resale" includes aggregated projected sales to City of Winter Park, City of Lake Worth Beach, City Mt. Dora, City of Chattahoochee, and Lakeland
"Net Energy for Load" may not match other Schedules due to rounding.

Total Combined							
Utility	Total GWh Savings @ Generator	Correction Factor	GWh Savings @ meter	Total Retail Sales (@ meter)	Energy Savings as %of Total Retail Sales	US Average*	*2021 SACE EE Report
FPL	83.92	0.951655848	79.86295878	127,904	0.062439766	0.68	
Duke	61	0.950086593	57.95528219	40,832	0.141935938		
OUC	10.34	0.96246387	9.951876419	7,155	0.139089817		
TECO	59.9	0.946969671	56.72348329	20,791	0.272827104		
JEA	8.16	0.963386728	7.861235698	12295	0.063938477		

Residential					
Utility	Total GWh Savings @ Generator	Correction Factor	GWh Savings @ meter	Total Retail Sales (@ meter)	Energy Savings as %of Total Retail Sales
FPL	33.97	0.951655848	32.32774916	127,904	0.02527501
Duke	50	0.950086593	47.50432966	40,832	0.116340933
OUC	1.856	0.96246387	1.786332943	7,155	0.024966219
TECO	29.6	0.946969671	28.03030226	20,791	0.134819404
JEA	3.61	0.963386728	3.477826087	12,295	0.028286507

Commercial and Industrial					
Utility	Total GWh Savings @ Generator	Correction Factor	GWh Savings @ meter	Total Retail Sales (@ meter)	Energy Savings as %of Total Retail Sales
FPL	49.95	0.951655848	47.53520962	127,904	0.037164756
Duke	10	0.950086593	9.500865932	40,832	0.023268187
OUC	8.489	0.96246387	8.170355795	7,155	0.114190857
TECO	30.3	0.946969671	28.69318103	20,791	0.138007701
JEA	4.55	0.963386728	4.383409611	12295	0.035651969

Total					
Utility	Total GWh Savings	Residential GWh Savings	Commercial and Industrial GWh Savings	Residential Savings% of Total	Commercial Savings % of Total
FPL	83.92	33.97	49.95	40.48%	59.52%
Duke	61	50	10	81.97%	16.39%
OUC	10.34	1.856	8.489	17.95%	82.10%
TECO	59.9	29.6	30.3	49.42%	50.58%
JEA	8.16	3.61	4.55	44.24%	55.76%

Correction Factor Calculation Chart				
Utitlity	@ Meter	@ Generator	Correction Factor	Source of Data
FPL	15,093,375	15,860,119	0.951655848	Residential Low Income (Pg. 9)
Duke	22,587,714	23,774,374	0.950086593	Home Energy Check (Pg. 3)
OUC	3,232,330	3,358,391	0.96246387	Commerical Indoor Lighting Rebate (Pg. 3-19)
TECO	15,954,456	16,847,906	0.946969671	Neighborhood Weatherization (Pg. 47)
JEA	4,252,100	4,413,700	0.963386728	Commercial Perscriptive Lighting (Pg. 10)

Row Labels	Average of Summer Peak Savings (Kw)	Average of Winter Peak Savings (Kw)	Average of Savings EUI (kWh)	Average of Incremental Cost per Measure	Average of Full Measure Life (yrs)
Bathroom Faucet Aerators	0.01	0.03	107.64	3.09	10
Duct Repair	0.11	0.12	327.96	342.505	20
Hot Water Pipe Insulation	0.01	0.02	81.36	18.52	15
Kitchen Faucet Aerators	0.02	0.06	215.28	3.09	10
Low Flow Showerhead	0.016	0.038	142.68	12.34	10
Weather stripping	0.003	0.014	14.775	8.47	10
Window Caulking	0.003	0.014	14.775	2.14	10
LED - 9W_CFL Baseline	0	0	4.48	0.25	10
Grand Total	**0.026090909**	**0.041060606**	**115.1315152**	**67.59272727**	**12.27272727**

FPL 002732
20240012-EG
0.7
1.6
0.6
0.7
1.6
1.4
1.4

Plan B (Updated Factors)	Measure	Per Measure Savings @ Gen			Per Measure @ Meter		
Measure Level	Installation	S kW	W kW	kWh	S kW	W kW	kWh
Weatherization	4,583	0.26	0.1	528.21	0.244315	0.093967	503.2968
Duct Testing & Repair	1,121	0.42	0.12	814.17	0.394663	0.112761	775.7694
AC Unit Maintenance	5,988	0.18	0	282.03	0.169141	0	268.728
Outdoor Coil Cleaning	168	0.11	0	288.61	0.103364	0	274.9976
Low Flow Shower Heads	4,719	0.02	0.05	264.52	0.018793	0.046984	252.0438
Faucet Aerator	6,932	0.01	0.01	58.03	0.009397	0.009397	55.293
WH Pipe Wrap	4,823	0.01	0.03	150.76	0.009397	0.02819	143.6494
LED	26,229	0	0	9.99	0	0	9.518818

2022	
Expansion Factors	
MW =	**1.0642**
GWh =	**1.0495**

LED number of bulbs 5

					@ the Meter			@ the Generator		
Row Labels	Average of Summer Peak Savings (Kw)	Average of Winter Peak Savings (Kw)	Average of Savings EUI (kWh)	% Contribution	SkW	WkW	kWh	SkW	WkW	kWh
Bathroom Faucet Aerators	0.01	0.03	107.64	7%	0.0008	0.0020	7.5346	0.0009	0.0021	7.8646
Duct Repair	0.11	0.12	327.96	8%	0.0085	0.0100	26.2365	0.0090	0.0105	27.3857
Hot Water Pipe Insulation	0.01	0.02	81.36	4%	0.0004	0.0009	3.2544	0.0004	0.0009	3.3969
Kitchen Faucet Aerators	0.02	0.06	215.28	7%	0.0017	0.0040	15.0694	0.0018	0.0042	15.7294
Low Flow Showerhead	0.02	0.04	142.68	16%	0.0026	0.0061	22.8288	0.0027	0.0064	23.8287
Weather stripping	0.00	0.01	14.78	14%	0.0004	0.0020	2.0685	0.0004	0.0021	2.1591
Window Caulking	0.00	0.01	14.78	14%	0.0004	0.0020	2.0685	0.0004	0.0021	2.1591
LED	0.00	0.00	22.40	19%	0.0000	0.0000	4.2560	0.0000	0.0000	4.4424
Measures Not Included in new Resource Innovation Potential										
Outdoor Coil Cleaning	0.10	0.00	275.00	11%	0.0114	0.0000	30.2497	0.012	0.000	31.5747
Sub Total Resource Innovations				100%	0.0262	0.0269	113.5664	0.028	0.028	118.5406
Addition of Ceiling Insulation				Expected percent of homes with ceiling insulation						
Ceiling Insulation R2 to R10	1.51	0.15	2,584.99	30%	0.4536	0.0459	775.4970	0.479	0.048	809.4638

Spray cleaner on outdoor coils

2024	
Expansion Factors	
MW =	1.0558
GWh =	1.0438

Total per Installation Factors

@ the Meter			@ the Generator		
SkW	WkW	kWh	SkW	WkW	kWh
0.4798	0.0728	889.0634	0.507	0.077	928.0044

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March 2, 2020

-VIA ELECTRONIC FILING-

Adam Teitzman
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

RE: Docket 20200000-OT
Florida Power & Light Company 2019 DSM Annual Report

Dear Mr. Teitzman:

In accordance with Rule 25-17.0021(5), Florida Administrative Code, Florida Power & Light Company ("FPL") submits its 2019 DSM Annual Report. The report includes the results of FPL's DSM Plan as approved by Order No. PSC-15-0331-PAA-EG (consummated by Order No. PSC-15-0384-CO-EG). In the enclosed report, FPL's performance is compared to the demand and energy goals established by Order No. PSC-14-0696-FOF-EU, issued December 16, 2014, in Docket No. 130199-EI. The results are summarized on page one.

If there are any questions regarding this transmittal, please contact me at (561) 304-5662.

Sincerely,

/s/ *William P. Cox*
William P. Cox
Fla. Bar No. 0093531

Enclosure

FLORIDA POWER & LIGHT COMPANY
2019 DEMAND-SIDE MANAGEMENT
ANNUAL REPORT

March 2, 2020

FLORIDA POWER & LIGHT COMPANY
2019 DEMAND-SIDE MANAGEMENT ANNUAL REPORT

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FLORIDA POWER & LIGHT COMPANY Page 1
Comparison of Achieved MW and GWh Savings v. Commission Goals Established December 16, 2014
Reporting Period: 2019

Residential and Business Combined (@ Generator)									
	Summer Peak MW Savings			Winter Peak MW Savings			GWh Energy Savings		
Year	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance
2015	86.0	48.1	79%	44.5	29.2	52%	156.2	41.2	279%
2016	52.2	49.6	5%	32.9	30.1	9%	62.6	45.6	37%
2017	62.0	50.8	22%	39.6	30.9	28%	71.4	47.5	50%
2018	82.4	51.5	60%	52.9	31.5	68%	85.9	49.5	73%
2019	59.4	52.3	14%	38.5	32.1	20%	54.2	51.5	5%
2020		53.1			32.8			53.7	
2021		53.9			33.4			55.8	
2022		54.7			34.1			58.1	
2023		55.5			34.8			60.5	
2024		56.5			35.5			63.0	

Residential (@ Generator)									
	Summer Peak MW Savings			Winter Peak MW Savings			GWh Energy Savings		
Year	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance
2015	58.7	25.3	132%	32.9	15.6	111%	107.7	21.6	398%
2016	26.1	25.6	2%	18.0	15.8	14%	22.5	22.2	1%
2017	26.2	25.9	1%	17.6	16.0	10%	23.6	22.8	4%
2018	26.5	26.2	1%	17.5	16.2	8%	22.4	23.5	-5%
2019	29.8	26.5	12%	19.7	16.4	20%	21.7	24.2	-10%
2020		26.9			16.7			25.0	
2021		27.3			16.9			25.7	
2022		27.6			17.2			26.5	
2023		28.0			17.5			27.4	
2024		28.5			17.8			28.3	

Business (@ Generator)									
	Summer Peak MW Savings			Winter Peak MW Savings			GWh Energy Savings		
Year	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance	Total Achieved	Commission Established Goal	% Variance
2015	27.3	22.8	20%	11.6	13.6	-15%	48.6	19.6	148%
2016	26.1	24.0	9%	14.9	14.3	4%	40.1	23.4	71%
2017	35.8	24.9	44%	21.9	14.9	47%	47.7	24.7	93%
2018	55.9	25.3	121%	35.4	15.3	131%	63.5	26.0	144%
2019	29.7	25.8	15%	18.8	15.7	20%	32.5	27.3	19%
2020		26.2			16.1			28.7	
2021		26.6			16.5			30.1	
2022		27.1			16.9			31.6	
2023		27.5			17.3			33.1	
2024		28.0			17.7			34.7	

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 2

Utility: Florida Power & Light Company
Program Name: **Residential Home Energy Survey**
Program Start Date: January 1981
Reporting Period: 2019

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2015	4,228,484	4,228,484	100,000	2%	149,405	149,405	4%	49,405
2016	4,289,564	4,289,564	200,000	5%	112,878	262,283	6%	62,283
2017	4,350,874	4,350,874	300,000	7%	111,618	373,901	9%	73,901
2018	4,411,411	4,411,411	400,000	9%	66,409	440,310	10%	40,310
2019	4,470,700	4,470,700	500,000	11%	117,361	557,671	12%	57,671
2020	4,527,847	4,527,847	600,000	13%				
2021	4,581,557	4,581,557	700,000	15%				
2022	4,635,494	4,635,494	800,000	17%				
2023	4,690,133	4,690,133	900,000	19%				
2024	4,745,553	4,745,553	1,000,000	21%				

2019	
Utility Cost per Installation	$114
Total Utility Program Cost ($000)	$13,425
Net Benefits ($000)	N/A

- No kW or kWh savings attributed to this program

[(1)] Cumulative participants before 2015 = 3,540,682

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 3

Utility: Florida Power & Light Company
Program Name: **Residential Load Management (On Call®)**
Program Start Date: July 1986
Reporting Period: 2019

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2015	4,228,484	3,418,006	12,000	0%	4,422	4,422	0%	(7,578)
2016	4,289,564	3,479,086	24,000	1%	7,302	11,724	0%	(12,276)
2017	4,350,874	3,540,396	36,000	1%	7,226	18,950	1%	(17,050)
2018	4,411,411	3,600,933	48,000	1%	7,771	26,721	1%	(21,279)
2019	4,470,700	3,660,222	60,000	2%	8,631	35,352	1%	(24,648)
2020	4,527,847	3,717,369	72,000	2%				
2021	4,581,557	3,771,079	84,000	2%				
2022	4,635,494	3,825,016	96,000	3%				
2023	4,690,133	3,879,655	108,000	3%				
2024	4,745,553	3,935,075	120,000	3%				

2019	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Summer kW Savings	2.16	2.30	18,643	19,862
Winter kW Savings	1.78	1.90	15,389	16,395
kWh Savings	1	1	9,257	9,730

2019	
Utility Cost per Installation [2]	$65
Total Utility Program Cost ($000) [3]	$45,527
Net Benefits ($000)	$389

[1] Cumulative participants before 2015 = 810,074

[2] Based on cumulative active participants at year-end = 703,601

[3] Includes depreciation, return & incentives paid in 2019 to active participants who signed up in 2019 & prior years

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 4

Utility: Florida Power & Light Company
Program Name: **Residential Air Conditioning**
Program Start Date: October 1990
Reporting Period: 2019

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2015	4,228,484	2,200,756	23,398	1%	93,077	93,077	4%	69,679
2016	4,289,564	2,215,785	53,092	2%	26,574	119,651	5%	66,559
2017	4,350,874	2,247,102	83,432	4%	26,590	146,241	7%	62,809
2018	4,411,411	2,257,195	114,360	5%	23,125	169,366	8%	55,006
2019	4,470,700	2,286,386	145,852	6%	20,082	189,448	8%	43,596
2020	4,527,847	2,306,455	178,074	8%				
2021	4,581,557	2,323,925	210,900	9%				
2022	4,635,494	2,319,715	243,975	11%				
2023	4,690,133	2,351,899	277,422	12%				
2024	4,745,553	2,384,533	311,449	13%				

2019	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Summer kW Savings	0.31	0.33	6,153	6,555
Winter kW Savings	0.00	0.00	0	0
kWh Savings	615	647	12,356,542	12,987,961

2019	
Utility Cost per Installation	$169
Total Utility Program Cost ($000)	$3,396
Net Benefits ($000)	$7

(1) Cumulative participants before 2015 = 1,780,764

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 5

Utility: Florida Power & Light Company
Program Name: **Residential New Construction (BuildSmart®)**
Program Start Date: February 1996
Reporting Period: 2019

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2015	4,228,484	80,224	1,463	2%	3,000	3,000	4%	1,537
2016	4,289,564	85,647	3,022	2%	2,399	5,399	3%	2,377
2017	4,350,874	86,246	4,699	2%	2,648	8,047	3%	3,348
2018	4,411,411	86,310	6,595	2%	3,514	11,561	3%	4,966
2019	4,470,700	86,461	8,720	2%	3,498	15,059	4%	6,339
2020	4,527,847	86,260	11,079	2%				
2021	4,581,557	85,119	13,643	2%				
2022	4,635,494	84,269	16,641	2%				
2023	4,690,133	83,932	20,099	3%				
2024	4,745,553	84,994	23,926	3%				

2019	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Savings	0.36	0.38	1,261	1,343
Winter kW Savings	0.13	0.14	451	480
kWh Savings	1,064	1,118	3,721,601	3,911,775

2019	
Utility Cost per Installation	$149
Total Utility Program Cost ($000)	$520
Net Benefits ($000)	$7

(1) Cumulative participants before 2015 = 35,967

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 6

Utility: Florida Power & Light Company
Program Name: **Residential Ceiling Insulation**
Program Start Date: October 1981
Reporting Period: 2019

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2015	4,228,484	1,257,387	3,748	0%	9,105	9,105	1%	5,357
2016	4,289,564	1,253,639	8,601	1%	3,909	13,014	1%	4,413
2017	4,350,874	1,248,786	13,674	1%	3,600	16,614	1%	2,940
2018	4,411,411	1,243,713	18,973	2%	3,378	19,992	2%	1,019
2019	4,470,700	1,238,414	24,506	2%	3,662	23,654	2%	(852)
2020	4,527,847	1,232,881	30,288	2%				
2021	4,581,557	1,227,099	36,313	3%				
2022	4,635,494	1,221,074	42,605	3%				
2023	4,690,133	1,214,782	49,156	4%				
2024	4,745,553	1,208,231	56,009	5%				

2019	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Summer kW Savings	0.28	0.30	1,043	1,111
Winter kW Savings	0.67	0.71	2,457	2,618
kWh Savings	750	788	2,744,907	2,885,172

2019	
Utility Cost per Installation	$210
Total Utility Program Cost ($000)	$770
Net Benefits ($000)	$3

[(1)] Cumulative participants before 2015 = 559,104

Note: 2015 & 2016 data reflects ceiling insulation plus the other measures with which it was previously bundled under the now discontinued Building Envelope program

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 7

Utility: Florida Power & Light Company
Program Name: **Residential Low Income**
Program Start Date: March 2005
Reporting Period: 2019

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2015	4,228,484	837,884	2,000	0%	264	264	0%	(1,736)
2016	4,289,564	850,100	4,000	0%	1,054	1,318	0%	(2,682)
2017	4,350,874	862,362	6,000	1%	2,376	3,694	0%	(2,306)
2018	4,411,411	874,469	8,000	1%	2,295	5,989	1%	(2,011)
2019	4,470,700	886,327	10,000	1%	2,796	8,785	1%	(1,215)
2020	4,527,847	897,756	12,000	1%				
2021	4,581,557	908,498	14,000	2%				
2022	4,635,494	919,286	16,000	2%				
2023	4,690,133	930,214	18,000	2%				
2024	4,745,553	941,298	20,000	2%				

2019	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Summer kW Savings	0.30	0.32	849	905
Winter kW Savings	0.08	0.08	212	226
kWh Savings	644	677	1,801,768	1,893,838

2019	
Utility Cost per Installation	$170
Total Utility Program Cost ($000)	$475
Net Benefits ($000)	($48)

(1) Cumulative participants before 2015 = 8,697

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 8

Utility: Florida Power & Light Company
Program Name: **Business Energy Evaluation**
Program Start Date: October 1990
Reporting Period: 2019

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2015	549,662	549,662	12,000	2%	12,253	12,253	2%	253
2016	558,880	558,880	24,000	4%	12,108	24,361	4%	361
2017	567,607	567,607	36,000	6%	11,514	35,875	6%	(125)
2018	575,757	575,757	48,000	8%	8,510	44,385	8%	(3,615)
2019	583,702	583,702	60,000	10%	6,655	51,040	9%	(8,960)
2020	591,470	591,470	72,000	12%				
2021	599,138	599,138	84,000	14%				
2022	606,879	606,879	96,000	16%				
2023	614,519	614,519	108,000	18%				
2024	622,036	622,036	120,000	19%				

2019	
Utility Cost per Installation	$1,146
Total Utility Program Cost ($000)	$7,628
Net Benefits ($000)	N/A

- No kW or kWh savings attributed to this program

[(1)] Cumulative participants before 2015 = 203,124

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 9

Utility: Florida Power & Light Company
Program Name: **Business On Call®**
Program Start Date: June 1995
Reporting Period: 2019

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2015	8,238,975	1,362,434	3,000	0%	3,087	3,087	0%	87
2016	8,377,160	1,384,939	6,000	0%	2,628	5,715	0%	(285)
2017	8,507,971	1,406,204	9,000	1%	1,396	7,111	1%	(1,889)
2018	8,630,118	1,426,011	12,000	1%	714	7,824	1%	(4,176)
2019	8,749,222	1,445,305	15,000	1%	366	8,190	1%	(6,810)
2020	8,865,658	1,464,151	18,000	1%				
2021	8,980,595	1,482,744	21,000	1%				
2022	9,096,626	1,501,521	24,000	2%				
2023	9,211,144	1,520,044	27,000	2%				
2024	9,323,821	1,538,256	30,000	2%				

2019	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Summer kW Savings	1.00	1.07	366	390
Winter kW Savings	0.00	0.00	0	0
kWh Savings	1	1	370	388

2019	
Utility Cost per Installation [2]	$45
Total Utility Program Cost ($000) [3]	$3,435
Net Benefits ($000)	$14

[1] Cumulative participants (MW) before 2015 = 104.0

[2] Based on cumulative active participants at year-end = 76.4

[3] Includes depreciation, return & incentives paid in 2019 to active participants who signed up in 2019 & prior years

Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 10

Utility: Florida Power & Light Company
Program Name: **Commercial/Industrial Demand Reduction**
Program Start Date: May 2000
Reporting Period: 2019

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2015	8,238,975	2,914,414	7,500	0%	7,635	7,635	0%	135
2016	8,377,160	2,955,795	15,000	1%	7,598	15,233	1%	233
2017	8,507,971	2,994,451	23,000	1%	21,882	37,115	1%	14,115
2018	8,630,118	3,029,441	31,000	1%	36,528	73,643	2%	42,643
2019	8,749,222	3,063,250	39,000	1%	12,349	85,992	3%	46,992
2020	8,865,658	3,096,017	47,000	2%				
2021	8,980,595	3,128,154	55,000	2%				
2022	9,096,626	3,160,571	63,000	2%				
2023	9,211,144	3,192,359	71,000	2%				
2024	9,323,821	3,240,739	79,000	2%				

2019	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Summer kW Savings	1.00	1.07	12,349	13,157
Winter kW Savings	0.64	0.69	7,942	8,461
kWh Savings	11	11	135,100	142,004

2019	
Utility Cost per Installation [2]	$82
Total Utility Program Cost ($000) [3]	$26,683
Net Benefits ($000)	$269

[1] Cumulative participants (MW) before 2015 = 239.0

[2] Based on cumulative active participants at year-end = 327.4

[3] Includes incentives paid in 2019 to active participants who signed up in 2019 & prior years

Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 11

Utility: Florida Power & Light Company
Program Name: **Business Heating, Ventilating & Air Conditioning**
Program Start Date: February 1990
Reporting Period: 2019

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2015	8,238,975	3,062,593	6,999	0%	5,487	5,487	0%	(1,512)
2016	8,377,160	3,113,463	15,646	1%	9,552	15,038	0%	(608)
2017	8,507,971	3,159,595	24,450	1%	4,580	19,619	1%	(4,832)
2018	8,630,118	3,201,943	33,418	1%	5,756	25,375	1%	(8,043)
2019	8,749,222	3,242,852	42,557	1%	10,651	36,026	1%	(6,531)
2020	8,865,658	3,282,474	51,874	2%				
2021	8,980,595	3,328,373	61,377	2%				
2022	9,096,626	3,378,291	71,072	2%				
2023	9,211,144	3,432,086	80,967	2%				
2024	9,323,821	3,486,564	91,067	3%				

2019	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Summer kW Savings	1.00	1.07	10,651	11,348
Winter kW Savings	0.64	0.68	6,817	7,263
kWh Savings	785	825	8,356,133	8,783,132

2019	
Utility Cost per Installation	$657
Total Utility Program Cost ($000)	$6,999
Net Benefits ($000)	$35

(1) Cumulative participants (MW) before 2015 = 387,649

Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 12

Utility: Florida Power & Light Company
Program Name: **Business Lighting**
Program Start Date: June 1984
Reporting Period: 2019

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2015	8,238,975	1,731,118	2,104	0%	1,700	1,700	0%	(404)
2016	8,377,160	1,764,214	4,674	0%	1,612	3,312	0%	(1,361)
2017	8,507,971	1,793,756	7,421	0%	4,380	7,692	0%	271
2018	8,630,118	1,821,101	10,354	1%	9,099	16,791	1%	6,436
2019	8,749,222	1,846,534	13,480	1%	4,474	21,265	1%	7,785
2020	8,865,658	1,872,615	16,806	1%				
2021	8,980,595	1,896,621	20,341	1%				
2022	9,096,626	1,919,617	24,093	1%				
2023	9,211,144	1,943,381	28,072	1%				
2024	9,323,821	1,968,007	32,286	2%				

2019	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Summer kW Savings	1.00	1.07	4,474	4,767
Winter kW Savings	0.64	0.68	2,855	3,041
kWh Savings	5,009	5,265	22,412,414	23,557,688

2019	
Utility Cost per Installation	$105
Total Utility Program Cost ($000)	$470
Net Benefits ($000)	$20

(1) Cumulative participants (MW) before 2015 = 288,007

Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT Page 13

Utility: Florida Power & Light Company
Program Name: **Business Custom Incentive**
Program Start Date: April 1993
Reporting Period: 2019

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[(1)]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2015	8,238,975	411,949	451	0%	2,210	2,210	1%	1,758
2016	8,377,160	418,858	1,001	0%	2,760	4,969	1%	3,968
2017	8,507,971	425,399	1,552	0%	1,509	6,478	2%	4,926
2018	8,630,118	431,506	2,125	0%	585	7,062	2%	4,938
2019	8,749,222	437,461	2,797	1%	0	7,062	2%	4,265
2020	8,865,658	443,283	3,462	1%				
2021	8,980,595	449,030	4,104	1%				
2022	9,096,626	454,831	4,800	1%				
2023	9,211,144	460,557	5,441	1%				
2024	9,323,821	466,191	6,105	1%				

2019	Per Installation @ Meter	Per Installation @ Generator	Program Total @ Meter	Program Total @ Generator
Summer kW Savings	0.0	0.0	0.0	0.0
Winter kW Savings	0.0	0.0	0.0	0.0
kWh Savings	0.0	0.0	0.0	0.0

2019	
Utility Cost per Installation	N/A
Total Utility Program Cost ($000)	$30
Net Benefits ($000)	N/A

[(1)] Cumulative participants (MW) before 2015 = 47,251

Note: One Customer, Participant or Installation equals one Summer kW

CONSERVATION RESEARCH & DEVELOPMENT ("CRD") PROGRAM

CRD is an umbrella program under which FPL researches a wide variety of new technologies to evaluate their potential for reductions in peak load and energy as well as customer bill savings. Florida's climatic conditions are unique so the studies must reflect the effects of the hot and humid environment. Favorable evaluation results can lead to incorporation in FPL's DSM programs. Examples of technologies that have been included are: Energy Recovery Ventilators; Demand Control Ventilation; and Residential Air Conditioning Duct Plenum Seal.

FPL participates in relevant co-funded projects such as Electric Power Research Institute ("EPRI"). This co-funding enables FPL to gain the learnings from larger research projects at a fraction of the total cost. In 2019, FPL continued its participation in EPRI's on-going readiness assessment of multiple technologies in various stages of development which enables comparisons among these technologies.

OTHER CONSERVATION ACTIVITIES

Cogeneration & Small Power Production: The objective of this program is to facilitate cogeneration and small power production facilities. In 2019, there were purchases from 16 facilities which produced summer demand of 594 MW, winter demand of 593 MW and 1,197 GWh.

March 2, 2015

Shevie Brown
Division of Economics
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: 2014 Demand-Side Management (DSM) Annual Report

Dear Mr. Brown:

In accordance with Rule 25-17.0021(5), Florida Administrative Code, Florida Power & Light Company ("FPL") is submitting its 2014 DSM Annual Report. The Report includes the results of FPL's DSM Plan as approved by Order No. PSC-11-0346-PAA-EG (consummated by Order No. PSC-11-0590-FOF-EG). FPL's DSM Plan consists of the DSM programs approved by the Commission in 2004 and subsequent modifications approved by the Commission in 2006.

FPL developed internal demand and energy targets ("FPL Targets") following the Commission's approval of its current DSM Plan. The FPL Targets are based on the incentive levels and a similar program mix contained in FPL's approved DSM Plan as well as adjustments for 2012 Florida Building Code changes. Below is a table comparing FPL's 2014 performance to the FPL Targets:

	Residential and Business Combined			Residential			Business		
	Actual Total Achieved	FPL Target	% Variance	Actual Total Achieved	FPL Target	% Variance	Actual Total Achieved	FPL Target	% Variance
Summer Peak MW	142.1	131.1	8%	99.1	80.3	23%	43.0	50.8	-15%
Winter Peak MW	66.6	79.0	-16%	51.1	56.0	-9%	15.5	23.1	-33%
GWh Energy	222.1	156.4	42%	162.6	101.1	61%	59.4	55.3	7%

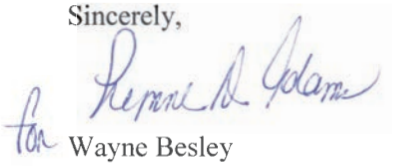
On a combined basis, FPL achieved the Summer MW and GWh targets. The value of demand and energy savings for FPL's general body of customers is unrelated to whether the savings occur in the residential or business sector.

In the enclosed report, FPL's performance is compared to the demand and energy goals established by Order No. PSC-09-0855-FOF-EG, issued December 30, 2009, in Docket No. 080407-EG ("2009 Goals"). The results are summarized on page one of the attached report. In

2014, FPL achieved DSM savings within 15% of the residential Summer MW and business Winter MW goals. On a combined basis, FPL's 2014 achievements exceeded 2013. FPL's 2014 residential and business sector-level achievements also exceeded 2013, with the exception of business GWh. Achievement in the business sector continues to be affected by customers deferring projects due to budget constraints as a result of the slow economic recovery. As indicated in the transmittal letter accompanying last year's DSM Annual Report, variances from the 2009 DSM Goals are expected because FPL's approved DSM Plan was not designed to meet the 2009 Goals.

Please do not hesitate to contact me should you have any questions.

Sincerely,



for Wayne Besley
Director, Demand-Side Management Programs

Enclosures

FLORIDA POWER & LIGHT COMPANY
2014 DEMAND-SIDE MANAGEMENT
ANNUAL REPORT

March 2, 2015

FLORIDA POWER & LIGHT COMPANY
2014 DEMAND-SIDE MANAGEMENT ANNUAL REPORT

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FLORIDA POWER & LIGHT COMPANY
Comparison of Achieved MW and GWh Reductions
v. Annual Commission Goals Established December 30, 2009
Reporting Period: 2014

Residential and Business Combined (@ Generator)

	Summer Peak MW Reduction			Winter Peak MW Reduction			GWh Energy Reduction		
Year	Annual Total Achieved	Annual Commission Established Goal	% Variance	Annual Total Achieved	Annual Commission Established Goal	% Variance	Annual Total Achieved	Annual Commission Established Goal	% Variance
2010	129.2	110.4	17%	59.4	41.3	44%	204.1	204.3	0%
2011	146.2	142.2	3%	64.2	52.3	23%	261.1	295.2	-12%
2012	139.9	166.5	-16%	70.9	61.9	15%	211.0	360.3	-41%
2013	127.0	179.8	-29%	55.6	69.4	-20%	214.2	389.4	-45%
2014	142.1	183.6	-23%	66.6	74.6	-11%	222.1	394.1	-44%
2015		172.2			71.0			360.5	
2016		155.9			66.3			317.6	
2017		140.1			61.1			279.0	
2018		128.7			56.4			253.3	
2019		118.3			51.4			228.5	

Residential (@ Generator)

	Summer Peak MW Reduction			Winter Peak MW Reduction			GWh Energy Reduction		
Year	Annual Total Achieved	Annual Commission Established Goal	% Variance	Annual Total Achieved	Annual Commission Established Goal	% Variance	Annual Total Achieved	Annual Commission Established Goal	% Variance
2010	92.9	67.7	37%	38.2	33.2	15%	141.3	119.6	18%
2011	109.5	79.7	37%	46.2	42.4	9%	196.1	145.8	35%
2012	88.5	90.2	-2%	40.7	50.3	-19%	140.9	168.8	-17%
2013	84.7	98.5	-14%	40.7	56.3	-28%	138.7	186.7	-26%
2014	99.1	104.3	-5%	51.1	60.2	-15%	162.6	200.0	-19%
2015		100.7			55.9			193.0	
2016		95.9			51.3			183.4	
2017		91.4			47.0			174.2	
2018		87.4			43.2			166.4	
2019		83.3			39.4			157.5	

Business (@ Generator)

	Summer Peak MW Reduction			Winter Peak MW Reduction			GWh Energy Reduction		
Year	Annual Total Achieved	Annual Commission Established Goal	% Variance	Annual Total Achieved	Annual Commission Established Goal	% Variance	Annual Total Achieved	Annual Commission Established Goal	% Variance
2010	36.2	42.7	-15%	21.3	8.1	162%	62.8	84.7	-26%
2011	36.8	62.5	-41%	18.0	9.9	82%	64.9	149.4	-57%
2012	51.4	76.3	-33%	30.3	11.6	161%	70.1	191.5	-63%
2013	42.3	81.3	-48%	14.9	13.1	14%	75.5	202.7	-63%
2014	43.0	79.3	-46%	15.5	14.4	8%	59.4	194.1	-69%
2015		71.5			15.1			167.5	
2016		60.0			15.0			134.2	
2017		48.7			14.1			104.8	
2018		41.3			13.2			86.9	
2019		35.0			12.0			71.0	

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Residential Building Envelope**
Program Start Date: January 1981
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	4,010,837	2,483,638	18,159	0.7%	14,041	14,041	0.6%	(4,118)
2011	4,056,428	2,493,710	36,448	1.5%	13,675	27,716	1.1%	(8,732)
2012	4,141,910	2,528,354	54,891	2.2%	11,639	39,355	1.6%	(15,536)
2013	4,226,978	2,562,588	73,508	2.9%	8,420	47,775	1.9%	(25,733)
2014	4,311,223	2,596,138	92,321	3.6%	8,752	56,527	2.2%	(35,794)
2015	4,394,802	2,629,080	111,135	4.2%				
2016	4,477,937	2,661,746	129,948	4.9%				
2017	4,560,569	2,694,101	148,761	5.5%				
2018	4,642,575	2,726,069	167,575	6.1%				
2019	4,720,827	2,755,712	186,388	6.8%				

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.27	0.29	2,391	2,577
Winter kW Reduction	0.37	0.40	3,217	3,467
kWh Reduction	663	703	5,801,116	6,155,390

2014	
Utility Cost per Installation	$377
Total Utility Program Cost ($000)	$3,299
Net Benefits ($000)	$98

[1] Cumulative participants prior to 2010 = 502,577

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Residential Duct System Testing and Repair**
Program Start Date: August 1991
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	4,010,837	1,708,376	17,741	1.0%	16,348	16,348	1.0%	(1,393)
2011	4,056,428	1,710,053	35,772	2.1%	3,575	19,923	1.2%	(15,849)
2012	4,141,910	1,728,433	54,093	3.1%	1,277	21,200	1.2%	(32,893)
2013	4,226,978	1,746,346	72,704	4.2%	1,294	22,494	1.3%	(50,210)
2014	4,311,223	1,763,618	91,608	5.2%	2,032	24,526	1.4%	(67,082)
2015	4,394,802	1,780,313	110,513	6.2%				
2016	4,477,937	1,796,819	129,418	7.2%				
2017	4,560,569	1,813,111	148,323	8.2%				
2018	4,642,575	1,829,136	167,227	9.1%				
2019	4,720,827	1,843,562	186,132	10.1%				

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.17	0.19	355	383
Winter kW Reduction	0.19	0.21	394	424
kWh Reduction	378	401	768,520	815,454

2014	
Utility Cost per Installation	$449
Total Utility Program Cost ($000)	$913
Net Benefits ($000)	$1

[1] Cumulative participants prior to 2010 = 478,515

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Residential Air Conditioning**
Program Start Date: October 1990
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	4,010,837	3,172,427	106,731	3.4%	99,897	99,897	3.1%	(6,834)
2011	4,056,428	3,180,593	221,154	7.0%	113,907	213,804	6.7%	(7,350)
2012	4,141,910	3,206,087	343,459	10.7%	101,156	314,960	9.8%	(28,499)
2013	4,226,978	3,227,951	473,914	14.7%	105,164	420,124	13.0%	(53,790)
2014	4,311,223	3,225,622	612,872	19.0%	121,349	541,473	16.8%	(71,399)
2015	4,394,802	3,219,715	751,830	23.4%				
2016	4,477,937	3,212,539	890,787	27.7%				
2017	4,560,569	3,205,241	1,029,745	32.1%				
2018	4,642,575	3,176,065	1,168,703	36.8%				
2019	4,720,827	3,158,213	1,307,661	41.4%				

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.53	0.57	64,568	69,593
Winter kW Reduction	0.19	0.20	22,523	24,276
kWh Reduction	1,131	1,200	137,258,649	145,641,035

2014	
Utility Cost per Installation	$630
Total Utility Program Cost ($000)	$76,399
Net Benefits ($000)	$353

[1] Cumulative participants prior to 2010 = 1,239,291

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Residential Load Management (On Call)**
Program Start Date: July 1986
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	4,010,837	3,225,872	15,900	0.5%	6,826	6,826	0.2%	(9,074)
2011	4,056,428	3,255,563	33,100	1.0%	8,021	14,847	0.5%	(18,253)
2012	4,141,910	3,323,845	51,600	1.6%	13,910	28,757	0.9%	(22,843)
2013	4,226,978	3,390,413	71,400	2.1%	15,370	44,127	1.3%	(27,273)
2014	4,311,223	3,454,858	94,700	2.7%	10,395	54,522	1.6%	(40,178)
2015	4,394,802	3,515,137	118,000	3.4%				
2016	4,477,937	3,574,972	141,300	4.0%				
2017	4,560,569	3,634,304	164,600	4.5%				
2018	4,642,575	3,693,010	187,900	5.1%				
2019	4,720,827	3,747,962	211,200	5.6%				

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.98	2.14	20,604	22,207
Winter kW Reduction	1.88	2.03	19,548	21,069
kWh Reduction	2	2	17,100	18,144

2014	
Utility Cost per Installation [2]	$68
Total Utility Program Cost ($000) [3]	$55,462
Net Benefits ($000)	$473

[1] Cumulative participants prior to 2010 = 784,965
[2] Based on cumulative active participants at year-end = 810,074
[3] Includes depreciation, return & rebates paid in 2014 to active participants who signed up in 2014 & prior years

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Residential New Construction (BuildSmart©)**
Program Start Date: February 1996
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	4,010,837	18,505	1,612	8.7%	2,089	2,089	11.3%	477
2011	4,056,428	30,508	3,282	6.7%	2,317	4,406	9.0%	1,124
2012	4,141,910	36,750	5,431	6.3%	2,943	7,349	8.6%	1,918
2013	4,225,978	39,597	7,582	6.0%	2,600	9,949	7.9%	2,367
2014	4,311,223	41,313	9,635	5.8%	3,503	13,452	8.1%	3,817
2015	4,394,802	43,189	11,581	5.5%				
2016	4,477,937	43,800	13,528	5.3%				
2017	4,560,569	44,274	15,474	5.2%				
2018	4,642,575	45,278	17,421	5.1%				
2019	4,720,827	46,918	19,368	5.0%				

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.78	0.85	2,750	2,964
Winter kW Reduction	0.28	0.30	982	1,059
kWh Reduction	1,273	1,351	4,459,000	4,731,311

2014	
Utility Cost per Installation	$209
Total Utility Program Cost ($000)	$732
Net Benefits ($000)	$199

[1] Cumulative participants prior to 2010 = 22,515

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Residential Low Income Weatherization**
Program Start Date: April 2004
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	4,010,837	693,875	581	0.1%	837	837	0.1%	256
2011	4,056,428	701,181	1,190	0.2%	1,666	2,503	0.4%	1,313
2012	4,141,910	715,361	1,828	0.3%	2,505	5,008	0.7%	3,180
2013	4,226,978	729,439	2,496	0.3%	844	5,852	0.8%	3,356
2014	4,311,223	743,345	3,197	0.4%	884	6,736	0.9%	3,539
2015	4,394,802	757,104	3,897	0.5%				
2016	4,477,937	770,786	4,598	0.6%				
2017	4,560,569	784,380	5,299	0.7%				
2018	4,642,575	797,867	5,999	0.8%				
2019	4,720,827	810,704	6,700	0.8%				

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.22	0.23	192	206
Winter kW Reduction	0.07	0.08	66	71
kWh Reduction	474	503	418,808	444,385

2014	
Utility Cost per Installation	$142
Total Utility Program Cost ($000)	$126
Net Benefits ($000)	$5

[1] Cumulative participants prior to 2010 = 1,961

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Residential Home Energy Surveys**
Program Start Date: January 1981
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	4,010,837	4,010,837	75,000 - 100,000	1.9% - 2.5%	139,837	139,837	3.5%	64,837 - 39,837
2011	4,056,428	4,056,428	150,000 - 200,000	3.7% - 4.9%	159,620	299,457	7.4%	149,457 - 99,457
2012	4,141,910	4,141,910	225,000 - 300,000	5.4% - 7.2%	145,069	444,526	10.7%	219,526 - 144,526
2013	4,226,978	4,226,978	300,000 - 400,000	7.1% - 9.5%	147,012	591,538	14.0%	291,820 - 191,820
2014	4,311,223	4,311,223	375,000 - 500,000	8.7% - 11.6%	197,794	789,332	18.3%	414,332 - 289,332
2015	4,394,802	4,394,802	450,000 - 600,000	10.2% - 13.6%				
2016	4,477,937	4,477,937	525,000 - 700,000	11.7% - 15.6%				
2017	4,560,569	4,560,569	600,000 - 800,000	13.2% - 17.5%				
2018	4,642,575	4,642,575	675,000 - 900,000	14.5% - 19.4%				
2019	4,720,827	4,720,827	750,000 - 1,000,000	15.9% - 21.2%				

2014	
Utility Cost per Installation	$60
Total Utility Program Cost ($000)	$11,919
Net Benefits ($000)	N/A

- No kW or kWh reductions attributed to this program

[1] Cumulative participants prior to 2010 = 2,751,350

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Business Heating, Ventilating & Air Conditioning**
Program Start Date: February 1990
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	605,498	378,692	18,668	4.9%	10,611	10,611	2.8%	(8,057)
2011	620,548	369,436	38,212	10.3%	8,789	19,400	5.3%	(18,812)
2012	635,972	340,406	57,831	17.0%	12,224	31,625	9.3%	(26,207)
2013	651,779	349,806	77,380	22.1%	12,936	44,561	12.7%	(32,819)
2014	667,980	340,390	97,364	28.6%	12,932	57,493	16.9%	(39,871)
2015	684,583	330,789	117,349	35.5%				
2016	701,598	321,447	137,333	42.7%				
2017	719,037	312,369	157,318	50.4%				
2018	736,909	303,562	177,302	58.4%				
2019	755,226	295,033	197,286	66.9%				

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.00	1.08	12,932	13,939
Winter kW Reduction	0.38	0.41	4,930	5,313
kWh Reduction	1,343	1,425	17,369,491	18,430,245

2014	
Utility Cost per Installation	$494
Total Utility Program Cost ($000)	$6,386
Net Benefits ($000)	$299

[1] Cumulative participants prior to 2010 (@ Generator) = 325,170

Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Business Efficient Lighting**
Program Start Date: June 1984
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	842,587	449,346	1,489	0.3%	3,810	3,810	0.8%	2,321
2011	863,530	459,025	3,104	0.7%	3,509	7,320	1.6%	4,216
2012	884,994	468,857	4,837	1.0%	4,397	11,716	2.5%	6,880
2013	906,991	478,855	6,681	1.4%	2,742	14,458	3.0%	7,777
2014	929,535	489,033	8,630	1.8%	1,411	15,869	3.2%	7,239
2015	952,639	499,405	10,579	2.1%				
2016	976,317	510,084	12,528	2.5%				
2017	1,000,584	521,076	14,477	2.8%				
2018	1,025,454	532,390	16,427	3.1%				
2019	1,050,943	544,034	18,376	3.4%				

2014	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.00	1.08	1,411	1,521
Winter kW Reduction	0.63	0.68	892	961
kWh Reduction	5,033	5,340	7,102,339	7,536,079

2014	
Utility Cost per Installation	$364
Total Utility Program Cost ($000)	$513
Net Benefits ($000)	$65

[1] Cumulative participants prior to 2010 (@ Generator) = 270,713

Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Business Building Envelope**
Program Start Date: June 1995
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	455,771	455,771	8,602	1.9%	6,358	6,358	1.4%	(2,244)
2011	467,099	458,497	17,720	3.9%	5,864	12,222	2.7%	(5,498)
2012	478,709	460,989	27,329	5.9%	6,765	18,987	4.1%	(8,342)
2013	490,608	463,279	37,404	8.1%	6,760	25,747	5.6%	(11,657)
2014	502,802	465,398	47,922	10.3%	7,466	33,213	7.1%	(14,709)
2015	515,300	467,377	58,440	12.5%				
2016	528,108	469,667	68,958	14.7%				
2017	541,234	472,276	79,476	16.8%				
2018	554,687	475,210	89,994	18.9%				
2019	568,474	478,479	100,512	21.0%				

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.00	1.08	7,466	8,047
Winter kW Reduction [2]	0.00	0.00	-16.59	-17.88
kWh Reduction	1,951	2,070	14,563,373	15,452,758

2014	
Utility Cost per Installation	$1,013
Total Utility Program Cost ($000)	$7,563
Net Benefits ($000)	$219

[1] Cumulative participants prior to 2010 (@ Generator) = 80,192

[2] The negative value is the result of the proportionately large participation in the Window Treatment measure

Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Business Custom Incentive**
Program Start Date: April 1993
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	139,467	90,912	282	0.3%	2,586	2,586	2.8%	2,304
2011	142,934	92,890	564	0.6%	2,098	4,684	5.0%	4,120
2012	146,487	94,924	846	0.9%	2,335	7,019	7.4%	6,173
2013	150,128	97,015	1,128	1.2%	3,795	10,814	11.1%	9,686
2014	153,859	99,165	1,410	1.4%	1,220	12,034	12.1%	10,624
2015	157,683	101,376	1,692	1.7%				
2016	161,603	103,649	1,974	1.9%				
2017	165,619	105,985	2,256	2.1%				
2018	169,736	108,387	2,538	2.3%				
2019	173,955	110,855	2,820	2.5%				

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.00	1.08	1,220	1,315
Winter kW Reduction	1.07	1.16	1,311	1,413
kWh Reduction	7,766	8,241	9,477,099	10,055,865

2014	
Utility Cost per Installation	$237
Total Utility Program Cost ($000)	$289
Net Benefits ($000)	$106

[1] Cumulative participants prior to 2010 (@ Generator) = 34,162

Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Business Water Heating**
Program Start Date: May 2006
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	80,321	73,863	187	0.3%	25	25	0.0%	(162)
2011	82,317	75,512	383	0.5%	6	31	0.0%	(352)
2012	84,363	77,197	589	0.8%	23	54	0.1%	(535)
2013	86,460	78,920	802	1.0%	34	88	0.1%	(713)
2014	88,609	80,683	1,021	1.3%	3	92	0.1%	(930)
2015	90,812	82,488	1,241	1.5%				
2016	93,069	84,344	1,461	1.7%				
2017	95,382	86,252	1,681	1.9%				
2018	97,753	88,212	1,900	2.2%				
2019	100,182	90,227	2,120	2.3%				

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.00	1.08	3	3
Winter kW Reduction	0.62	0.67	2	2
kWh Reduction	4,304	4,566	13,341	14,156

2014	
Utility Cost per Installation	$3,517
Total Utility Program Cost ($000)	$11
Net Benefits ($000)	$0

[1] Cumulative participants prior to 2010 (@ Generator) = 180

Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Business Refrigeration**
Program Start Date: May 2006
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	87,601	45,200	304	0.7%	40	40	0.1%	(263)
2011	89,778	46,020	607	1.3%	141	181	0.4%	(426)
2012	92,010	46,868	906	1.9%	60	242	0.5%	(665)
2013	94,297	47,749	1,196	2.5%	66	308	0.6%	(889)
2014	96,641	48,668	1,474	3.0%	958	1,266	2.6%	(208)
2015	99,043	49,630	1,751	3.5%				
2016	101,505	50,623	2,029	4.0%				
2017	104,028	51,647	2,307	4.5%				
2018	106,613	52,703	2,584	4.9%				
2019	109,263	53,793	2,862	5.3%				

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.00	1.08	958	1,033
Winter kW Reduction	0.86	0.93	824	888
kWh Reduction	4,871	5,169	4,667,858	4,952,924

2014	
Utility Cost per Installation	$125
Total Utility Program Cost ($000)	$120
Net Benefits ($000)	$67

[1] Cumulative participants prior to 2010 (@ Generator) = 546

Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Business On Call**
Program Start Date: June 1995
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	1,723,593	1,632,987	6,524	0.4%	1,901	1,901	0.1%	(4,623)
2011	1,766,434	1,667,052	13,048	0.8%	5,662	7,562	0.5%	(5,486)
2012	1,810,340	1,702,125	19,572	1.1%	4,473	12,035	0.7%	(7,537)
2013	1,855,337	1,738,233	26,096	1.5%	6,073	18,108	1.0%	(7,988)
2014	1,901,452	1,775,401	32,620	1.8%	4,914	23,023	1.3%	(9,597)
2015	1,948,714	1,813,654	39,144	2.2%				
2016	1,997,150	1,853,020	45,668	2.5%				
2017	2,046,791	1,893,527	52,192	2.8%				
2018	2,097,665	1,935,203	58,716	3.0%				
2019	2,149,804	1,978,077	65,240	3.3%				

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.00	1.08	4,914	5,297
Winter kW Reduction	0.00	0.00	0	0
kWh Reduction	1.0	1.2	4,963	5,676

2014	
Utility Cost per Installation [2]	$38
Total Utility Program Cost ($000) [3]	$3,965
Net Benefits ($000)	$164

[1] Cumulative participants prior to 2010 (@ Generator) = 90.6
[2] Based on cumulative active participants at year-end = 104.0
[3] Includes depreciation, return & rebates paid in 2014 to active participants who signed up in 2014 & prior years
Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Commercial/Industrial Demand Reduction**
Program Start Date: May 2000
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	4,895,780	3,780,346	6,333	0.2%	7,786	7,786	0.2%	1,453
2011	5,017,468	3,867,976	12,666	0.3%	7,038	14,825	0.4%	2,159
2012	5,142,180	3,957,941	18,999	0.5%	16,255	31,080	0.8%	12,081
2013	5,269,992	4,050,300	25,332	0.6%	5,657	36,737	0.9%	11,405
2014	5,400,981	4,145,112	31,665	0.8%	10,129	46,866	1.1%	15,201
2015	5,535,225	4,242,438	37,998	0.9%				
2016	5,672,807	4,342,340	44,331	1.0%				
2017	5,813,808	4,444,883	50,664	1.1%				
2018	5,958,314	4,550,133	56,997	1.3%				
2019	6,106,411	4,658,155	63,330	1.4%				

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.00	1.08	10,129	10,917
Winter kW Reduction	0.64	0.69	6,457	6,960
kWh Reduction	10.93	11.60	110,710	117,471

2014	
Utility Cost per Installation [2]	$74
Total Utility Program Cost ($000) [3]	$17,633
Net Benefits ($000)	$65

[1] Cumulative participants prior to 2010 (@ Generator) = 210.5
[2] Based on cumulative active participants at year-end = 238.8
[3] Includes rebates paid in 2014 to active participants who signed up in 2014 & prior years
Note: One Customer, Participant or Installation equals one Summer kW

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Business Energy Evaluation**
Program Start Date: October 1990
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants[1]	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	534,490	534,490	6,000	1.1%	13,228	13,228	2.5%	7,228
2011	547,697	541,775	12,000	2.2%	11,690	24,918	4.6%	12,918
2012	561,576	549,390	18,000	3.3%	12,089	37,007	6.7%	19,007
2013	575,598	557,344	24,000	4.3%	12,101	49,108	8.8%	25,108
2014	590,087	565,645	30,000	5.3%	12,822	61,930	10.9%	31,930
2015	604,956	574,301	36,000	6.3%				
2016	620,071	583,321	42,000	7.2%				
2017	635,559	592,714	48,000	8.1%				
2018	651,590	602,491	54,000	9.0%				
2019	667,785	612,659	60,000	9.8%				

2014	
Utility Cost per Installation	$592
Total Utility Program Cost ($000)	$7,588
Net Benefits ($000)	N/A

- No kW or kWh reductions attributed to this program

[1] Cumulative participants prior to 2010 = 141,194

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Residential Solar Water Heating Pilot**
Program Start Date: May 2011
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants [1]	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	4,010,837	4,010,837	0	0.0%	0	0	0.0%	0
2011	4,056,428	4,056,428	4,588	0.1%	523	523	0.0%	(4,065)
2012	4,141,910	4,137,322	9,470	0.2%	1,145	1,668	0.0%	(7,802)
2013	4,226,978	4,217,507	14,444	0.3%	1,084	2,752	0.1%	(11,692)
2014	4,311,223	4,296,778	15,344	0.4%	1,118	3,870	0.1%	(11,474)
2015	4,394,802	4,379,458	16,244	0.4%				
2016								
2017								
2018								
2019								

	Per Installation[2]		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.22	0.24	242	261
Winter kW Reduction	0.45	0.49	495	533
kWh Reduction	1,482	1,573	1,628,718	1,728,184

2014	
Utility Cost per Installation	$1,306
Total Utility Program Cost ($000)	$1,460
Net Benefits ($000)	($108)

[1] Original Dec. 2014 expiration (Order No. PSC-11-0079-PAA-EG) extended through year-end 2015 (Order No. PSC-14-0632-FOF-EG)
[2] Reflects only the 1,099 electric water heaters replaced (gas = 19 replacements)

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Residential Solar Water Heating (Low Income New Construction) Pilot**
Program Start Date: May 2011
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants [1]	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	4,010,837	404	0	0.0%	0	0	0.0%	0
2011	4,056,428	404	200	24.8%	0	0	0.0%	(200)
2012	4,141,910	404	400	33.0%	113	113	9.3%	(287)
2013	4,226,978	404	600	37.1%	103	216	13.4%	(384)
2014	4,311,223	404	800	39.6%	266	482	23.9%	(318)
2015	4,394,802	404	920	38.0%				
2016								
2017								
2018								
2019								

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.22	0.24	59	63
Winter kW Reduction	0.45	0.49	120	129
kWh Reduction	1,482	1,573	394,212	418,287

2014	
Utility Cost per Installation	$4,022
Total Utility Program Cost ($000)	$1,070
Net Benefits ($000)	($108)

[1] Original Dec. 2014 expiration (Order No. PSC-11-0079-PAA-EG) extended through year-end 2015 (Order No. PSC-14-0632-FOF-EG)

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Business Solar Water Heating Pilot**
Program Start Date: May 2011
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants [1]	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	534,490	534,490	0	0.0%	0	0	0.0%	0
2011	547,697	547,697	43	0.0%	9	9	0.0%	(34)
2012	561,576	561,533	94	0.0%	22	31	0.0%	(63)
2013	575,598	575,503	157	0.0%	7	38	0.0%	(119)
2014	590,087	589,930	233	0.0%	3	41	0.0%	(192)
2015	604,956	604,724	243	0.0%				
2016								
2017								
2018								
2019								

	Per Installation[2]		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.90	0.97	3	3
Winter kW Reduction	0.06	0.07	0	0
kWh Reduction	3,301	3,502	9,902	10,507

2014	
Utility Cost per Installation	$22,969
Total Utility Program Cost ($000)	$69
Net Benefits ($000)	($1)

[1] Original Dec. 2014 expiration (Order No. PSC-11-0079-PAA-EG) extended through year-end 2015 (Order No. PSC-14-0632-FOF-EG)
[2] Reflects only the 3 electric water heaters replaced (gas = 0 replacements)

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Residential Photovoltaic Pilot**
Program Start Date: May 2011
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants [1]	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	4,010,837	4,010,837	0	0.0%	0	0	0.0%	0
2011	4,056,428	4,056,428	340	0.0%	271	271	0.0%	(69)
2012	4,141,910	4,141,570	680	0.0%	225	496	0.0%	(184)
2013	4,226,978	4,226,298	1,020	0.0%	278	774	0.0%	(246)
2014	4,311,223	4,310,203	1,360	0.0%	257	1,031	0.0%	(329)
2015	4,394,802	4,393,442	1,760	0.0%				
2016								
2017								
2018								
2019								

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	3.01	3.24	773	833
Winter kW Reduction	0.11	0.12	28	30
kWh Reduction	9,854	10,456	2,532,499	2,687,159

2014	
Utility Cost per Installation	$18,006
Total Utility Program Cost ($000)	$4,628
Net Benefits ($000)	($144)

[1] Original Dec. 2014 expiration (Order No. PSC-11-0079-PAA-EG) extended through year-end 2015 (Order No. PSC-14-0632-FOF-EG)

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Business Photovoltaic Pilot**
Program Start Date: May 2011
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		**Actual**			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants [1]	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	534,490	534,490	0	0.0%	0	0	0.0%	0
2011	547,697	547,697	63	0.0%	31	31	0.0%	(32)
2012	561,576	561,512	130	0.0%	66	97	0.0%	(33)
2013	575,598	575,468	201	0.0%	56	153	0.0%	(48)
2014	590,087	589,886	281	0.0%	51	204	0.0%	(77)
2015	604,956	604,676	361	0.1%				
2016								
2017								
2018								
2019								

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	11.96	12.89	610	657
Winter kW Reduction	0.36	0.38	18	20
kWh Reduction	37,798	40,107	1,927,722	2,045,448

2014	
Utility Cost per Installation	$40,242
Total Utility Program Cost ($000)	$2,052
Net Benefits ($000)	($77)

[1] Original Dec. 2014 expiration (Order No. PSC-11-0079-PAA-EG) extended through year-end 2015 (Order No. PSC-14-0632-FOF-EG)

DEMAND-SIDE MANAGEMENT ANNUAL REPORT

Utility: Florida Power & Light Company
Program Name: **Business Photovoltaic for Schools Pilot**
Program Start Date: May 2011
Reporting Period: 2014

a	b	c	d	e (d/c)	f	g	h (g/c)	i (g-d)
			Projected		Actual			
Year	Total Number of Customers	Total Number of Eligible Customers	Cumulative Number of Program Participants [1]	Cumulative Penetration Level %	Annual Number of Program Participants	Cumulative Number of Program Participants	Cumulative Penetration Level %	Cumulative Participation Over (Under) Projected Participants
2010	534,490	1,334	0	0.0%	0	0	0.0%	0
2011	547,697	1,334	18	1.3%	0	0	0.0%	(18)
2012	561,576	1,334	40	3.0%	0	0	0.0%	(40)
2013	575,598	1,334	61	4.6%	29	29	2.2%	(32)
2014	590,087	1,334	79	5.9%	63	92	6.9%	13
2015	604,956	1,334	107	8.0%				
2016								
2017								
2018								
2019								

	Per Installation		Program Total	
2014	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	3.88	4.18	245	264
Winter kW Reduction	0.12	0.12	7	8
kWh Reduction	12,268	13,017	772,863	820,062

2014	
Utility Cost per Installation	$21,537
Total Utility Program Cost ($000) [2]	$1,357
Net Benefits ($000)	($376)

[1] Original Dec. 2014 expiration (Order No. PSC-11-0079-PAA-EG) extended through year-end 2015 (Order No. PSC-14-0632-FOF-EG)
[2] Includes depreciation & return in 2014 for participants who signed up since inception

RESEARCH & DEVELOPMENT

Conservation Research & Development ("CRD") Program: CRD is an umbrella program under which FPL researches a wide variety of new technologies to evaluate their potential for reductions in peak load and energy as well as customer bill savings. Florida's climatic conditions are unique so the studies must incorporate the effects of our hot humid environment. Favorable evaluation results can lead to incorporation in FPL's DSM programs. Examples of technologies that have been included are: Energy Recovery Ventilators; Demand Control Ventilation; and Residential Air Conditioning Duct Plenum Seal. Examples of other potentially viable candidates currently being considered are: variable speed pool pumps; hotel occupancy sensors; and residential heat pump water heaters.

FPL partners in its research projects with the Florida Solar Energy Center and engineering departments of several Florida universities. In 2014, FPL had active research projects with five universities. In addition, FPL participates in relevant co-funded projects through the U.S. Department of Energy ("DOE"). This co-funding enables FPL to participate in larger research projects at a fraction of the total cost.

In 2014, two CRD projects were completed. The first was field testing of a water misting system for the condenser coils of air-cooled large HVAC and refrigeration equipment at a supermarket. The second was Phase I of the co-funded DOE Building America Deep Retrofit project which is aimed at improving energy efficiency of existing homes with low-cost ("shallow") and higher-cost ("deep") retrofits.

Two projects began in 2014 which will be completed in 2015. First is Phase II of the DOE project which is focusing on a new set of deep retrofit measures. Equipment was installed in 2014 and data collection and analysis will be conducted in 2015. Second is a field research project at a supermarket to quantify the savings of a control system which varies the speed of the evaporator fan and the position of the supply air damper on a large rooftop HVAC unit.

Renewable Research & Demonstration ("RRD"): RRD's overall objectives are to: (a) increase awareness of mainstream solar technologies; and (b) evaluate emerging renewable technologies and their applications. The three strategies to meet these objectives are:

1. Demonstrate commercially-available photovoltaic ("PV") or solar water heating ("SWH") systems in real-world field installations.
2. Conduct specific research projects to quantify the performance of renewable products which are less well known, but worthy of closer examination.
3. Educate contractors and the public about the proper way to install solar systems for best performance.

To achieve these, FPL has: installed PV systems and educational displays at public facilities with large numbers of visitors, funding scientific research conducted by Florida universities or other qualified laboratories to test emerging renewable energy technologies, and partnering with universities and technical centers to increase access for solar contractors' training and providing education to FPL's residential and business customers.

In 2014, FPL completed four renewable demonstration installations – the Central Florida Zoo in Sanford, Equine Assisted Therapies at Tradewinds Park in Coconut Creek, Florida Gateway College in Lake City, and the Palm Beach Zoo. FPL also completed four renewable research projects – a solar tracker, hybrid thin film PV, hybrid solar thermal panels, and a solar thermal assisted residential HVAC. Data will continue to be collected on several of the sites for longer term analysis.

OTHER CONSERVATION ACTIVITIES

Cogeneration & Small Power Production: The objective of this program is to facilitate cogeneration and small power production facilities. In 2014, there were purchases from thirteen facilities. These facilities produced 2,503 GWh, summer demand of 748 MW and winter demand of 214 MW.

Florida Power & Light Company
Docket No. 20240012-EG
FEL's First Set of Interrogatories
Interrogatory No. 1
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QUESTION:
Please indicate the season and time of day during which peak demands for FPL typically occur.

RESPONSE:
FPL forecasts its Summer peak demand to typically occur between 4pm and 5pm. FPL forecasts its Winter peak demand to typically occur between 7am and 8am.

Florida Power & Light Company
Docket No. 20240012-EG
FEL's First Set of Interrogatories
Interrogatory No. 2
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QUESTION:
Please identify FPL's year by year assumptions regarding avoided energy costs that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

RESPONSE:
Please see Attachment No. 1 to this response for the requested information. All values are nominal dollars. The source of these outputs is an hourly production cost model used to develop projections for marginal fuel costs, the fuel used in the avoided unit, and the replacement fuel needed to replace the energy from the unit that has been avoided. All of these factors comprise the avoided energy costs FPL uses to evaluate the cost-effectiveness of DSM measures.

Florida Power & Light Company
Docket No. 20240012-EG
FEL's First Set of Interrogatories
Interrogatory No. 3
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QUESTION:
Please identify FPL's year by year assumptions regarding avoided capacity costs that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

RESPONSE:
Please see the table below for the requested information. The source for FPL's avoided capacity cost is direction and input from FPL's Engineering and Construction (E&C) department. FPL's E&C department estimates the cost of future resource options based on current and projected market trends for the construction and material costs associated with those resource options.

Avoided Generating Unit Information

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Year of DSM Goals Docket	**Type of Generating Unit**	**Projected In-Service Year**	**Projected Summer MW**	**Projected Capital Cost ($/kW)**	**Projected Fixed Annual Costs ($/kW) ***	**Projected Variable O&M (c/kWh)**
2024	Combined Cycle	2033	1,991	786	11.87	0.008

All values are in 2024$ and escalate at 2.5% per year

* Projected Fixed Annual Costs include: fixed O&M and capital replacement

Florida Power & Light Company
Docket No. 20240012-EG
FEL's First Set of Interrogatories
Interrogatory No. 4
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QUESTION:
Please identify FPL's year by year assumptions regarding avoided capacity reserves, if not included in avoided capacity costs, that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. If avoided capacity reserves were included in avoided capacity costs, please explain how that was done and what assumptions were used. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

RESPONSE:
FPL does not have "year by year" assumptions for avoided capacity reserves. FPL factors its 20% total Reserve Margin criterion into its projection of resource needs and the kW reduction of DSM measures. Please see witness Whitley's direct testimony, pages 11 and 15.

Florida Power & Light Company
Docket No. 20240012-EG
FEL's First Set of Interrogatories
Interrogatory No. 5
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QUESTION:
Please identify FPL's year by year assumptions regarding avoided environmental compliance costs, if not included in avoided capacity and/or avoided energy costs, that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. If avoided capacity reserves were included in avoided capacity costs, please explain how that was done and what assumptions were used. If avoided future environmental compliance costs were included in such other costs, please explain how that was done and what assumptions were used. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

RESPONSE:
Please see witness Whitley's Exhibit AWW-4 for information on yearly nominal environmental compliance costs for SO_2 and NO_X. The source for these compliance costs is FPL's Environmental business unit, which obtains market prices for emissions allowances based on current environmental laws and regulations, net of the allowances that FPL is allocated.

Florida Power & Light Company
Docket No. 20240012-EG
FEL's First Set of Interrogatories
Interrogatory No. 6
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QUESTION:
Please identify FPL's year by year assumptions regarding costs of carbon emissions that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

RESPONSE:
Please see witness Whitley's Exhibit AWW-4 for information on environmental compliance costs. Consistent with the direction provided in the Order Establishing Procedure for this docket (Order No. PSC-2024-0022-PCO-EG), FPL is not accounting for projected CO_2 compliance costs in FPL's base case analyses. FPL is analyzing the impact of projected CO_2 compliance costs in sensitivity screening analyses.

FPL uses information from ICF International for its CO_2 compliance cost forecast. ICF is a consulting firm with extensive experience in forecasting the cost of complying with the regulation of air emissions and is recognized as one of the industry leaders in this field. FPL has utilized ICF's CO_2 emission compliance cost forecast in all of its resource planning analyses since 2007. In the fourth quarter of 2022, ICF provided updated CO_2 compliance cost projections through the year 2070. The compliance cost values were provided by ICF in real dollars and, following the direction from ICF, were converted by FPL to nominal dollars using an inflation factor. FPL has been using this forecast in all of its 2023 and 2024 analyses.

Florida Power & Light Company
Docket No. 20240012-EG
FEL's First Set of Interrogatories
Interrogatory No. 7
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QUESTION:
Please identify FPL's year by year assumptions regarding avoided transmission capacity costs (in $/kW) that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

RESPONSE:
FPL utilized an avoided transmission capital cost of $499/kW and an avoided transmission O&M cost of $3/kW. These nominal values are in 2024 dollars and are escalated at 3% per year for capital and 2.5% per year for O&M. The source of these values is the budget forecasts from FPL's Transmission Planning department. These forecasts were reviewed to identify future transmission expenditures that could theoretically be eliminated if future load growth on FPL's system was non-existent. These expenditures are then viewed as costs that might potentially be avoidable and/or deferrable by future demand-side management (DSM) savings.

Florida Power & Light Company
Docket No. 20240012-EG
FEL's First Set of Interrogatories
Interrogatory No. 8
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QUESTION:
Please identify FPL's year by year assumptions regarding avoided distribution capacity costs (in $/kW) that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

RESPONSE:
FPL utilized an avoided distribution capital cost of $197/kW and an avoided distribution O&M cost of $4/kW. These nominal values are in 2024 dollars and are escalated at 3% per year for capital and 2.5% per year for O&M. The source of these values is the budget forecasts from FPL's Distribution Planning department. These forecasts were reviewed to identify future distribution expenditures that could theoretically be eliminated if future load growth on FPL's system was non-existent. These expenditures are then viewed as costs that might potentially be avoidable and/or deferrable by future demand-side (DSM) management savings.

Florida Power & Light Company
Docket No. 20240012-EG
FEL's First Set of Interrogatories
Interrogatory No. 9
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QUESTION:
Please identify FPL's year by year assumptions regarding line loss that were used to convert savings on the customers' side of the meter to generation, for as many future years as have been forecast. Please include assumptions for both energy and peak demand, and specify whether these assumptions are based on average or marginal line loss rates. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

RESPONSE:
FPL utilizes a peak demand line loss factor of 5.28% and an energy line loss factor of 4.19%. Both of these values are based off a line loss study based on real-world performance of FPL's system that uses average annual usage and marginal usage on peak. FPL does not perform forecasts or projections of future line losses.

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QUESTION:
Were avoided line losses captured in cost-effectiveness analyses? If so:

a. Please indicate whether higher loss rates were used for peak kW savings than for energy (kWh) savings. If higher loss rates were not used for peak savings than energy savings, please explain why.

b. Please indicate whether marginal (rather than average) loss rates were used. If marginal loss rates were not used, please explain why.

RESPONSE:
a. As explained in FPL's response to FEL's Interrogatory No. 9, FPL's peak demand line loss factor is higher than its energy line loss factor.

b. Line losses at the peak are generally higher during periods of high system load, therefore peak loads represent system loads at the margin. Consequently, line losses based on peak load conditions represent line losses at the margin. However, annual energy sales occur during each of the annual 8,760 hours and in a wide variety of system conditions. As a result, there is no single "marginal" line loss number that would be appropriate to use for energy sales for all hours of the year. Therefore, it is appropriate to use average annual line losses to adjust the energy impact of DSM.

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QUESTION:
Please identify FPL's year by year assumptions regarding avoided ancillary services that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

RESPONSE:
FPL does not include separate avoided ancillary services in its cost-effectiveness evaluations. In its production costing modeling for both supply-side and demand-side analyses, FPL does not isolate the costs of providing ancillary services from its overall variable system costs (fuel, VOM and startup cost and emission costs). Therefore, any modeling of ancillary services is included in the overall variable system costs.

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QUESTION:
Please identify FPL's year by year assumptions regarding value of reduced risk that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Here, value of reduced risk includes, but is not limited to: reduced exposure to future fuel price volatility, future environmental regulation compliance costs, uncertainties of demand forecasts and related capital investments. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

RESPONSE:
FPL does not directly include assumptions regarding either the value of reduced risk or the cost of increased risk from additional DSM. FPL does address the risk of fuel price volatility in all of its planning through the use of different fuel price sensitivities from FPL's Energy Marketing and Trading business unit. Also, the forecast for environmental compliance used by FPL incorporates a probabilistic method of judging the risk of a variety of carbon compliance scenarios from ICF, the consultant FPL uses to produce carbon compliance projections. Finally, all of FPL's capital estimates from FPL's Engineering and Construction business unit include an amount of contingency to account for possible increases in cost.

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QUESTION:
Please identify FPL's year by year assumptions regarding discount rate that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether the discount rate used is real or nominal. Please also identify the source of these assumptions.

RESPONSE:
FPL used two discount rates in its evaluations of DSM:

1) For the initial cost-effectiveness screenings, a discount rate of 8.10% was used. This discount rate is based on an incremental capital structure of 40.40% debt and 59.60% equity, with a cost of debt of 3.51% and a cost of capital of 10.6%.

2) For the final comparison of DSM portfolios on a levelized rate basis, a discount rate of 8.14% was used. This discount rate is based on an incremental capital structure of 40.40% debt and 59.60% equity, with a cost of debt of 5.66% and a cost of capital of 10.8%.

All of the discount rates used in the analysis are nominal rates. The source for these rates is FPL's Financial Planning and Analysis group.

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QUESTION:
Please identify FPL's year by year assumptions regarding reduced credit and collection costs as result of customers who participate in efficiency programs being better able to meet future bill payment obligations, that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

RESPONSE:
FPL does not include assumptions for reduced credit and collection costs in any of its cost-effectiveness analyses, nor does it include a cost for increased credit and collection costs resulting from higher rate impacts. FPL's intent is to include only objective, reasonably quantifiable benefits and costs in its cost-effectiveness analyses. FPL does not have information demonstrating a reduction in credit and collection costs due to customers who participate in energy efficiency programs.

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QUESTION:
Please provide FPL's loss of load probability (LOLP) for each year of the study period without any capacity expansion or DSM additions. Please identify any documents supporting these figures.

RESPONSE:
FPL does not produce LOLP projections without future capacity additions. Therefore, this information is not available. For FPL's last filed LOLP projection based on the resource plan for the 2024 Ten Year Site Plan, please see Attachment No. 1. FPL's TIGER Model was used to generate these figures. Please refer to FEL's 1st Set of PODs, Request No.1 for the supporting documents.

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QUESTION:
Referring to page 17 of witness Whitley's direct testimony, please explain what is meant by "extreme weather reserve" status? What is the implication for units placed in such status?

RESPONSE:
"Extreme weather reserve" status for a generating unit indicates that the unit will be shut down and not staffed during normal operating conditions. In the event of an extreme weather condition, these units will be placed into operation in order to provide sufficient capacity for FPL's customers during the event.

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QUESTION:
Please identify and explain all reasons which support the use of a two-year payback screen as the mechanism for addressing free ridership.

RESPONSE:
A free rider is defined as a customer who would receive an incentive from the utility for a DSM measure that he or she would install even without the existence of the utility provided incentive. Rule 25-17.0021(3). F.A.C., requires FEECA Utilities to address free riders as part of their goals analyses during the goal setting process. FPL supports the approach of using a two-year simple payback as an appropriate method to address free riders in the goal development process.

FPL believes investments that have short payback have a higher adoption than investments with longer payback as a matter of basic economics. Businesses commonly make investment decisions based on this principle. Since businesses are made up of individuals who are residential customers, it is reasonable to assume this principle extends to how residential customers weigh investment options for their limited capital. The use of this principle in the goal setting process has been endorsed by the Commission beginning in the first goals setting docket in 1994 with the use of a two-year payback threshold as a reasonable method of addressing free ridership. The Commission affirmed this decision in 2014 in Order No. PSC-14-0696-FOF-EU by stating, *"We approved goals based on a two-year payback criterion to identify free riders since 1994 and we find it appropriate to continue this policy."* The Commission went on to explain its rationale for its decision, stating: "*We find that the two-year payback criterion provides sufficient economic incentive to convince a customer to participate in a given energy efficiency program while balancing the requirement to account for free riders and minimizing program costs and undue subsidies. (See pages 26-27, Order No. PSC-14-0696-FOF-EU)"* FPL continues to support this approach as a simple, administratively efficient method of ensuring energy efficiency investments with strong economic payback are not unnecessarily subsidized by the general body of utility customers.

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QUESTION:
Please explain whether FPL is aware of any other state or utility that eliminates all measures with a two-year payback from analyses of efficiency potential. If so, please identify the states and/or utilities, and please identify references for any states or utilities listed. Please identify any related energy efficiency market potential studies of which FPL is aware that rely on a two-year payback screen to address free ridership.

RESPONSE:
FPL has not undertaken an exhaustive survey or analysis of the payback period used by all jurisdictions and utilities. However, other jurisdictions have different processes than Florida for determining DSM market potential and program parameters. FPL is aware that a 2-year payback threshold has been incorporated within the other parts of the overall DSM process in at least one other electric utility in another state. For example, MidAmerican Energy Company (MidAmerican) used the 2-year payback in its 2024 Iowa Nonresidential Qualifications and Conditions for business programs: "Projects with simple paybacks less than two years before rebates are ineligible for Custom and Direct Project Assistance rebates." (https://www.midamericanenergy.com/ia-bus-qualifications-conditions) In other words, by not allowing incentives to create a faster payback, MidAmerican is using the 2-year payback as the threshold to address free ridership because customers at that point already have sufficient financial incentive to implement the measure on their own.

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QUESTION:
Please explain whether FPL believes that all measures with a payback of less than two years necessarily have very high free rider rates, regardless of the program design (target market, delivery strategy, incentive levels, etc.)? If so, what is the basis for that belief? Please explain in detail and provide references to all studies, reports and documents relied upon in forming that belief.

RESPONSE:
FPL is not certain how FEL defines "very high" free rider rates. Nevertheless, FPL does not believe that all measures with a payback of less than two years necessarily have the same free ridership rate, regardless of program design. FPL does believe that utilizing a two-year payback methodology to address free-ridership is a reasonable and administratively efficient proxy for screening those measures that are most likely to experience high free-ridership simply due to short payback. This approach has been used consistently in Florida for many years and was reinforced by the Commission in 2014 in Order No. PSA-14-0696-FOF-EU at page 25.

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QUESTION:
Please explain whether FPL believes that upfront cost is the only barrier to market adoption of all efficiency measures? If so, what is the basis for that belief? If not, please identify all other major market barriers that could lead to less than economically optimal levels of investment in energy efficiency measures.

RESPONSE:
No. Up-front cost typically represents one of the most significant issues for customer adoption of a Demand-Side Management (DSM) measure, but it is not the only potential barrier to adoption. Other such potential barriers include, but are not limited to, the following that can impact a customer's desire to implement a DSM measure:

- Awareness of a DSM measure
- Awareness of potential savings benefits
- Concern with service or product degradation
- Availability of a DSM measure
- Past experiences with DSM measures
- Split incentives (*i.e.,* a different entity receives the benefits than the entity paying for the measure)
- Personal choice/preference
- Convenience/effort involved to implement a DSM measure

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QUESTION:
Please explain whether there a free rider rate above which FPL believes it would be inappropriate to run an efficiency program? If so, what is that free rider rate cut-off? Please explain the basis for the value proposed. If not, why is it appropriate for a market potential study to exclude savings potential from measures that have short payback periods?

RESPONSE:
FPL does not use a "free rider rate" in performing its analyses. Consistent with the Commission's prior decisions, FPL uses a two-year payback criterion to address free riders in development of the proposed goals. FPL has no opinion regarding a threshold for a free rider "rate".

FPL's Technical Potential Study does include all measures regardless of their payback. However, in development of proposed goals, measures with less than a two-year payback were screened from the proposed programs to address free ridership. The one exception is the proposed Low Income Weatherization program which does include a number of measures with less than two-year payback. As discussed in FPL's responses to FEL's First set of Interrogatories Nos. 17 and 19, it is appropriate to exclude measures that fail the two-year payback screen to avoid unnecessary costs to the general body of customers for incenting measures which a rational customer should implement on their own without utility incentives. In addition, FPL disagrees with the premise that excluding measures with short payback periods from a market potential study means that their potential savings will not occur. The very nature of free ridership means that such savings will in fact occur in real life because customers already have sufficient motivation to implement such measures on their own, which is unaffected by whether a measure is included in a market potential study.

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QUESTION:
Please list all measures that were excluded through the economic analysis because they had a payback of less than two years, along with the Technical Potential (TP) associated with each of those measures. Please include the incremental annual and cumulative annual MWh for these measures in each year from 2020 to 2029.

RESPONSE:
Please see Attachment No. 1 to this response for the requested information. Note that the requested Technical Potential values for MW and GWh are only available on a total basis, not annually for the years 2025 to 2034.

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QUESTION:
Please explain why cost-effectiveness from the Utility Cost Test (UCT) perspective was not analyzed, in addition to the RIM, TRC, and PCT tests.

RESPONSE:
FPL does not use the UCT test as it is not recognized by the Commission for DSM cost-effectiveness in Rule 25-17.0021(3), F.A.C.

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QUESTION:
Please indicate which of the following utility system benefits were included under the RIM test: (1) Avoided energy costs; (2) Avoided capacity costs; (3) Avoided transmission and distribution system costs; (4) Avoided line losses; (5) Avoided future environmental compliance costs; (6) Avoided ancillary services costs; (7) The value of risk mitigation associated with efficiency measures (e.g. reduced risk to future fuel price volatility); and (8) Reduced credit and collection costs associated with efficiency making it easier for customers to afford and pay their electricity bills. If any of the above-listed utility system benefits were not included, please explain why.

RESPONSE:
Please see witness Whitley's Exhibit AWW-1 for a summary of the benefit and cost components included in the RIM, TRC, and Participant tests. Please see FPL's responses to FEL's First Set of Interrogatories, Nos. 2-12 and 14 for further details of each specific category listed.

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QUESTION:
Please indicate which of the following utility system benefits were included under the TRC test: (1) Avoided energy costs; (2) Avoided capacity costs; (3) Avoided transmission and distribution system costs; (4) Avoided line losses; (5) Avoided future environmental compliance costs; (6) Avoided ancillary services costs; (7) The value of risk mitigation associated with efficiency measures (e.g. reduced risk to future fuel price volatility); and (8) Reduced credit and collection costs associated with efficiency making it easier for customers to afford and pay their electricity bills. If any of the above-listed utility system benefits were not included, please explain why.

RESPONSE:
Please see witness Whitley's Exhibit AWW-1 for a summary of the benefit and cost components included in the RIM, TRC, and Participant tests. Please see FPL's responses to FEL's First Set of Interrogatories, Nos. 2-12 and 14 for further details of each specific category listed.

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QUESTION:
Please indicate which of the following utility system benefits were included under the PCT test: (1) Avoided energy costs; (2) Avoided capacity costs; (3) Avoided transmission and distribution system costs; (4) Avoided line losses; (5) Avoided future environmental compliance costs; (6) Avoided ancillary services costs; (7) The value of risk mitigation associated with efficiency measures (e.g. reduced risk to future fuel price volatility); and (8) Reduced credit and collection costs associated with efficiency making it easier for customers to afford and pay their electricity bills. If any of the above-listed utility system benefits were not included, please explain why.

RESPONSE:
Please see witness Whitley's Exhibit AWW-1 for a summary of the benefit and cost components included in the RIM, TRC, and Participant tests. Please see FPL's responses to FEL's First Set of Interrogatories, Nos. 2-12 and 14 for further details of each specific category listed.

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QUESTION:
In FPL's view, would it be accurate to state that the RIM test addresses the perspective only of non-participants, as participants typically see bills go down even if rates go up slightly? If not, why not?

RESPONSE:
FPL disagrees with this statement. FPL utilizes the RIM test in combination with the Participant test to fully account for the effect of a DSM measure on both non-participants and participants of that DSM measure. In addition, because all customers pay the cost of DSM through their Energy Conservation Cost Recovery (ECCR) charge, the RIM test demonstrates the impacts on the rates of all customers, regardless of whether they participate in a DSM program or not.

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QUESTION:
Given that the TRC test is meant to address a societal perspective, please indicate whether any of the following societal benefits were included under that test: (1) The value of non-electric fuel savings (e.g. gas savings); (2) The value of water savings; (3) The value of any operation and maintenance cost savings; (4) The value of participant non-energy benefits; (5) The value to society of reduced emissions of greenhouse gases and/or other pollutants; or (6) The value to society of reduced health care costs. If any of the above-listed categories of societal benefits were not included in TRC analyses, please explain why not.

RESPONSE:
FPL does not include "societal" or "non-energy benefits" in its cost-effectiveness evaluations. In Order No. 24745 in Docket No. 891324, amending Rule 25-17.008, F.A.C., the Commission explained that externalities not paid through electric rates should not be included in the RIM test, and that costs and benefits included in the TRC test should be "reasonably quantified." FPL does include the benefit of avoided water usage at the avoided unit as the cost of water is included in the avoided variable O&M associated with the plant. FPL's analysis in both the RIM and TRC test paths also includes the avoided cost of operations and maintenance at the avoided unit, for both fixed and variable O&M. Finally, one of FPL's sensitivities includes the effects of avoided carbon compliance costs. However, any other "societal" benefits are not reasonably quantifiable, as FPL does not have information on customer gas usage, water usage, or health care costs.

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QUESTION:
Please explain how the load forecasting FPL provided to RI as part of the Technical Potential Study (TPS) considered adoption of naturally occurring (i.e., without a utility funded program) energy efficiency measures above baseline measure adoption by customers.

RESPONSE:
The FPL forecast provided to RI did not explicitly take into account the adoption of naturally occurring energy efficiency measures above the baseline measure adoption of customers. Implicitly, the impact of naturally occurring energy efficiency is accounted for in the forecast to the extent that those adoptions are captured in the historical load data.

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QUESTION:
Please explain whether these load forecasts assumed that there would be no additional adoption by customers of any energy efficiency measures above baseline code and standards. Please identify all documents supporting this explanation.

RESPONSE:
FPL's load forecast did not assume that there would be no additional adoption by customers of energy efficiency measures above the baseline codes and standards. The intent of the load forecast is to predict future energy consumption for all utility customers. The forecast does not analyze future adoption rates of specific EE measures. The load forecasting process relies on historic customer energy use behavior, which is then used to predict future energy consumption. Therefore, the load forecast's estimates of future energy consumption include the impacts of naturally occurring efficiency adoption above baseline codes and standards, to the extent that historic customer behavior reflects this naturally occurring adoption.

The impacts of additional adoption by customers of energy efficiency measures above the baseline codes and standards is implicitly, not explicitly, captured in the forecast. Therefore, no supporting documents are available.

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QUESTION:
Please provide a list of naturally occurring (i.e., without a utility funded program) energy efficiency measures above baseline measures that were considered in the load forecasting provided by you to RI as part of the TPS.

RESPONSE:
No energy efficiency measures above baseline measures were explicitly taken into account in developing the FPL load forecast provided to RI. Therefore, FPL does not have a specific list of naturally occurring energy efficiency measures not attributable to codes and standards or DSM programs.

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QUESTION:
The TPS prepared RI prepared for FPL states that "Resource Innovations verified with FPL's forecasting group that the baseline sales forecasts incorporated two known sources of naturally-occurring efficiency." Exhibit JH-4 at page 32. Please explain what is meant by a "known source." Please explain whether there were any unknown sources or any additional known sources, and please explain what those sources were.

RESPONSE:
As described in Section 5.1.1 of FPL's Technical Potential Study, the term "known sources" means a source of naturally-occurring efficiency that could impact the energy efficiency savings identified and are implicit and thus accounted for in the historical and forecasted load data. The "known sources" of naturally occurring efficiency referred to are: (a) the impacts of the Florida Building Code and of federal equipment standards (collectively, Codes and Standards) and (b) baseline measure adoption of already implemented Energy Efficiency (EE) technologies and measures. FPL is not aware of any unknown sources, but to the extent they exist, they would also be accounted for in the load data.

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QUESTION:
Is it your contention that the load forecasts utilized by RI in this proceeding assumed that your customers would adopt zero additional energy efficiency measures above baseline codes and standards over the next 10 years? If so, please explain all bases for this contention and identify all documents supporting this contention.

RESPONSE:
No. The load forecast uses historic energy consumption trends and the forecast of future energy consumption implicitly assumes naturally occurring adoption of efficiency measures above baseline are at levels consistent with historic trends, all other factors being equal.

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QUESTION:
If it is your contention that the load forecasts utilized by RI in this proceeding assumed that your customers would adopt zero additional energy efficiency measures above baseline codes and standards over the next 10 years, please explain whether you contend that zero additional energy efficiency measures above baseline codes and standards would be adopted in the absence of utility-sponsored DSM programs.

RESPONSE:
FPL does not contend that our customers would adopt zero additional energy efficiency measures above the baseline codes and standards. The adoption of additional energy efficiency measures above baseline codes and standards and not utility sponsored are assumed and accounted for in our forecasts to the extent that these adoptions are captured in the historical load data.

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QUESTION:
If you do not contend that zero additional energy efficiency measures above baseline codes and standards would be adopted in the absence of utility-sponsored DSM programs over the next 10 years, please explain whether you contend the load forecasts that you supplied to RI are accurate.

RESPONSE:
FPL contends that our load forecasts supplied to RI are accurate. Impacts from energy efficiency codes and standards as well as impacts from DSM programs are accurately accounted for in the load forecast. Additionally, naturally occurring energy efficiency measures above baseline codes and standards and not utility sponsored are also accounted for in our forecasts to the extent that these adoptions are captured in the historical load data.

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QUESTION:
Please provide the actual annual spending FPL has expended on demand-side management ("DSM") programs for the years 2016, 2017, and 2018. Please provide the annual spending for these years by DSM program, including a breakdown of the annual amount expended on rebates/incentives and non-rebate/non-incentive costs. Please include the portfolio level expenditures (i.e., spending not allocated to individual programs) for the years 2016, 2017, and 2018, and please include the total expenditures for these years.

RESPONSE:
Please see Attachment No. 1 to this response.

FLORIDA POWER LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY
CONSERVATION PROGRAM COSTS BY CATEGORY

SCHEDULE CT-2

January through December 2016

	PROGRAM	Depreciation Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Rebates	Vehicles	Other	TOTAL PROGRAM EXPENSES
1	Residential Home Energy Survey	$127,617	$3,004,574	$28,127	$1,772,166	$6,081,797		$207,073	$519,747	$11,741,102
2	Residential Ceiling Insulation		$107,871	$13	$15,486		$701,525		$13,166	$838,062
3	Residential Air Conditioning		$1,033,280	$3,108	$140,153		$4,000,200	$51	$48,505	$5,225,297
4	Residential New Construction (BuildSmart®)		$405,711		$76,464		$14,650		$35,122	$531,947
5	Residential Low-Income		$228,208	$30,686	$20,977		$31,871		$99,272	$411,014
6	Residential Load Management ("On Call")	$7,406,657	($689,917)	$143,443	$4,603,947		$36,082,603	$16,953	$647,883	$48,211,569
7	Business Energy Evaluation		$4,023,888	$10,037	$1,079,014	$2,434,086		$19,818	$369,308	$7,936,151
8	Business Lighting		$132,375		$44,613		$127,501		$7,205	$311,695
9	Business Heating, Ventilating & AC		$362,338	$309	$165,563		$5,218,607		$19,718	$5,766,534
10	Business Custom Incentive		$64,924	$75	$0		$568,487		$4,245	$637,731
11	Business On Call	$380,749	($24,669)		$110,521		$3,312,355		$39,672	$3,818,627
12	Commerical/Industrial Load Control		$200,277	$9,218	$26,178		$40,090,040		$36,548	$40,362,262
13	Commercial/ndustrial Demand Reduction		$243,677	$2,847	$16,123		$19,115,684		$56,448	$19,434,778
14	Cogeneration & Small Power Production		$511,891	$894	$0				($163,947)	$348,838
15	Conservation Research & Development		$32,048		$67,030				$22,227	$121,304
16	Common Expenses	$1,617,123	$5,934,962	$13,547	$695,409			$20,886	$1,141,559	$9,423,486
17	Business Photovoltaic for Schools Pilot	$2,415,370	$2,780							$2,418,150
18	Solar Pilot Projects Common Expenses	$375,196								$375,196
19	Discontinued Programs[1]		$3,721				$257,301		$23	$261,045
20	**Recoverable Conservation Expenses**	$12,322,711	$15,577,941	$242,305	$8,833,643	$8,515,883	$109,520,823	$264,781	$2,896,700	$158,174,787

Note: Totals may not add due to rounding.
(1)Residual expenses from programs discontinued in 2015

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Line No.	CONSERVATION PROGRAMS	JANUARY 2017 THROUGH DECEMBER 2017								
		Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Rebates	Vehicles	Other	TOTAL PROGRAM EXPENSES
1	Residential Home Energy Survey	$136,021	$3,676,206	$19,923	$2,507,563	$5,948,050	$0	$369,420	$315,954	$12,973,137
2	Residential Ceiling Insulation	$0	$156,063	$41	$38,287	$0	$632,320	$0	$9,908	$836,619
3	Residential Load Management ("ON CALL")	$8,202,516	$296,123	$222,348	$4,077,394	$0	$35,356,303	$7,843	$592,525	$48,755,052
4	Residential Air Conditioning	$0	$666,681	$1,602	$139,861	$0	$3,988,350	$0	$21,280	$4,817,773
5	Residential New Construction (BuildSmart®)	$0	$410,451	$134	$85,022	$0	$15,025	$0	$41,478	$552,109
6	Residential Low income	$0	$250,690	$3,848	$41,160	$0	$107,703	$0	$71,874	$475,275
7	Business On Call	$413,598	$4,942	$20	$74,917	$0	$3,144,122	$0	$116,818	$3,754,417
8	Cogeneration & small Power Production	$0	$456,819	($763)	$0	$0	$0	$0	($229,806)	$226,250
9	Business Lighting	$0	$143,987	$0	$42,277	$0	$332,682	$0	$9,379	$528,325
10	Commercial/Industrial Load Control	$0	$178,899	$703	$15,220	$0	$39,868,251	$0	$31,368	$40,094,441
11	Commercial/Industrial Demand Reduction	$0	$231,416	$79	$7,920	$0	$19,785,745	$0	$47,576	$20,072,736
12	Business Energy Evaluation	$9,009	$4,119,410	$2,856	$927,935	$2,670,321	$0	$18,903	$205,641	$7,954,073
13	Business Heating, Ventilating & A/C	$0	$430,942	$0	$133,115	$0	$2,006,263	$0	$28,765	$2,599,085
14	Business Custom Incentive	$0	$35,381	$27	$0	$0	$308,903	$0	$2,219	$346,531
15	Conservation Research and Development	$0	$9,615	$0	$86,550	$0	$0	$0	$20,385	$116,551
16	Common Expenses	$1,094,145	$5,796,487	$8,125	$563,779	$0	$0	$27,565	$1,011,372	$8,501,473
17	Business Photovoltaic for School Pilot	$2,209,463	$0	$0	$0	$0	$0	$0	$0	$2,209,463
18	Solar Pilot Project Common Expenses	$103,285	$0	$0	$0	$0	$0	$0	$0	$103,285
19	Total	$12,168,036	$16,864,113	$258,942	$8,740,999	$8,618,371	$105,545,666	$423,732	$2,296,737	$154,916,595

Totals may not add due to rounding.

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JANUARY 2018 THROUGH DECEMBER 2018

	CONSERVATION PROGRAMS	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Rebates	Vehicles	Other	TOTAL PROGRAM EXPENSES
1	RESIDENTIAL HOME ENERGY SURVEY	$175,892	$4,212,199	$19,116	$4,583,531	$5,313,854	$0	$614,336	$246,984	$15,165,912
2	RESIDENTIAL CEILING INSULATION	$0	$99,241	$0	$15,343	$0	$608,950	$0	$3,949	$727,483
3	RESIDENTIAL LOAD MANAGEMENT ("ON CALL")	$8,757,640	$2,062,596	$297,495	$3,446,068	$0	$33,176,833	$10,031	$647,948	$48,398,611
4	RESIDENTIAL AIR CONDITIONING	$0	$546,656	$189	$120,090	$10,000	$3,468,114	$1	$16,373	$4,161,423
5	RESIDENTIAL NEW CONSTRUCTION (BUILDSMART®)	$0	$405,216	$153	$60,392	$0	$8,800	$0	$30,981	$505,542
6	RESIDENTIAL LOW-INCOME	$0	$215,270	$4,915	$3,012	$0	$73,459	$0	$57,237	$353,892
7	BUSINESS ON CALL	$431,770	$42,771	$11	$45,028	$0	$3,084,215	$0	$30,355	$3,634,150
8	COGENERATION & SMALL POWER PRODUCTION	$0	$442,087	$0	$0	$0	$0	$0	($237,708)	$204,379
9	BUSINESS LIGHTING	$0	$130,125	$0	$42,223	$0	$697,706	$0	$4,781	$874,835
10	COMMERCIAL/INDUSTRIAL LOAD CONTROL	$0	$189,059	$990	$45,603	$0	$41,000,165	$1,875	$21,452	$41,259,144
11	COMMERCIAL/INDUSTRIAL DEMAND REDUCTION	$0	$254,351	$2,015	$24,048	$0	$23,251,956	$1,875	$30,902	$23,565,147
12	BUSINESS ENERGY EVALUATION	$128,078	$4,270,973	$2,622	$982,852	$1,426,976	$0	$14,326	$283,409	$7,109,236
13	BUSINESS HEATING VENTILATING & A/C	$0	$407,612	$0	$147,692	$0	$2,792,950	$5,027	$17,559	$3,370,841
14	BUSINESS CUSTOM INCENTIVE	$0	$28,400	$0	$4,429	$0	$120,439	$0	$1,659	$154,927
15	CONSERVATION RESEARCH AND DEVELOPMENT	$0	$10,453	$0	$0	$0	$0	$0	$24,041	$34,494
16	SOLAR PV FOR SCHOOLS	$1,945,341	$0	$0	$0	$0	$0	$0	$0	$1,945,341
17	COMMON EXPENSES	$807,479	$4,829,985	$5,165	$636,879	$0	$0	$7,948	$983,016	$7,270,472
18	RECOVERABLE CONSERVATION EXPENSES	$12,246,199	$18,146,994	$332,671	$10,157,190	$6,750,830	$108,283,587	$655,420	$2,162,938	$158,735,829

Totals may not add due to rounding.

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QUESTION:
Please explain FPL's proposed levels of participation, budget, peak MW savings and energy savings for the program in each of the next 10 years. Please compare those proposed future levels to actual participation, spending and savings levels for FPL's low income programs over each of the past five years.

RESPONSE:
FPL's proposed levels of participation, budget, peak MW savings and energy savings for the Low-Income Weatherization program in each of the next 10 years can be found in Exhibit JNF-4, Page 25 of 34. Please find the table below for actual participation, spending and savings levels for FPL's Low Income Weatherization program for years 2019-2023.

	2019	2020	2021	2022	2023
Participants	2,796	3,137	8,502	11,054	11,254
Summer MW*	0.91	0.88	2.07	4.94	5.61
Winter MW*	0.23	0.25	0.45	1.44	2.08
Annual GWh*	1.89	2.51	4.68	11.79	15.86
Program Cost	$475,159	$761,439	$670,478	$2,030,559	$3,140,574

*Values are @ Generator

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QUESTION:
Please describe the methodology used to determine the number of eligible customers for your low income efficiency program(s) as presented in FPL's most recent Demand Side Management Annual Report.

RESPONSE:
The referenced values for 2020 through 2021 are from FPL's 2020 DSM Plan. FPL calculated the eligible customers based on its total residential customers from FPL's 2019 Ten-Year Site Plan multiplied by 20% (the estimated portion which are low-income customers is based on the data in the "FEL INT 38 – Low Income Participation" Excel file, provided in response FEL's POD No. 2) less FPL's pre-2020 Low Income program participation.

The referenced values for 2022 through 2024 are from FPL's 2021 Integrated DSM Plan. FPL calculated the eligible customers based on its total residential customers from FPL's 2019 Ten-Year Site Plan multiplied by 21% (the estimated portion which are low-income customers based on a weighted average of the FPL 20% and a prior Gulf Power estimate of 35%) less FPL's pre-2022 Low Income program participation.

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QUESTION:
For each month between January 2020 and the present please indicate: a) the total number of disconnect notices issued due to non-payment of bills, b) the actual number of disconnections.

RESPONSE:
Please see FPL's Objections to FEL's First Set of Interrogatories (No. 39) filed contemporaneously with this response.

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QUESTION:
Please indicate the annual cost of disconnections to the utility (both gross and net of corresponding fees collected from disconnected customers).

RESPONSE:
Please see FPL's Objections to FEL's First Set of Interrogatories (No. 40) filed contemporaneously with this response.

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QUESTION:
From January 2020 through the present, please indicate the total number of customers whose outstanding electric bills were deemed uncollectible, the total amount for each year in dollars, and the amount of uncollectible bill costs (direct and indirect) associated with this timeframe that the company has, or expects, to recover from its customers.

RESPONSE:
Please see FPL's Objections to FEL's First Set of Interrogatories (No. 41) filed contemporaneously with this response.

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QUESTION:
Please provide actual administrative costs, at the measure level, for each of your energy efficiency programs implemented from 2020-2024. For any costs that are not distinguished by measure, please explain why not, and provide the actual administrative costs at the most granular level possible.

RESPONSE:
The requested information is not available. FPL captures such data at the program level. Please see Attachment 1 (FEL INT 42) provided in response to POD 2 for actual program level administrative costs.

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QUESTION:
Please indicate if these same administrative costs were used as assumptions for the corresponding measures in the DSM/EE potential study on which your 2025-2034 proposed goals are based. If not, please indicate why not.

RESPONSE:
Yes, historical administrative costs were used as assumptions in evaluating measures and programs associated with the proposed goals for 2025 – 2034.

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QUESTION:
Referring to pages 20-21 of Witness Floyd's direct testimony, what is the difference between the assumptions for administrative costs used for initial cost effectiveness screening and the "more specific administrative and incentive cost assumptions" used in the program re-evaluation? How was each set of assumptions derived? Please provide the administrative cost assumptions used at both stages and identify the bases for those assumptions, including any supporting documents.

RESPONSE:
As stated in Witness Herndon's testimony on page 28, the economic analysis used for estimating market adoption forecasts occurred prior to each utility developing specific programs aligned with their proposed goals. Therefore, representative administrative costs were developed using average FEECA Utility program cost data where available from current programs, then weighted based on total savings by program. Where FEECA program cost data was not available, other regional utility program cost data was applied. In order to evenly apply these representative costs to measures with a variety of savings impacts, typical costs were estimated on a variable basis per kWh saved. The supporting workpaper for these representative cost assumptions is included in response to FEL First Requests for Production of Documents, No. 1.

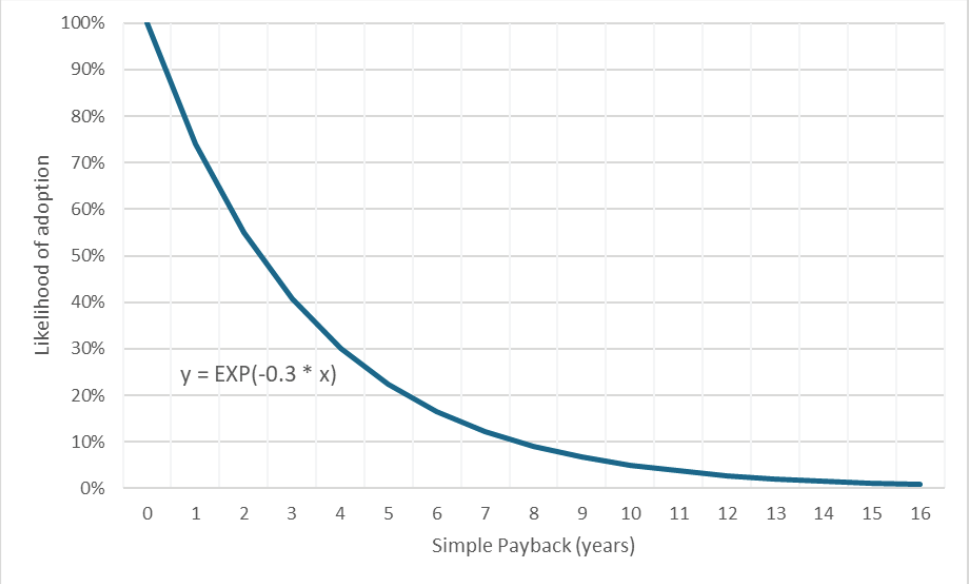
FPL estimated administrative costs for the proposed programs by applying historical actual administrative costs per participant from FPL's current programs to the projected participants in the proposed programs. The more specific administrative cost assumptions used in program re-evaluation did not result in elimination of any additional measures from the proposed program portfolio. The supporting workpaper for these more specific administrative cost assumptions is included in response to FEL's First Requests for Production of Documents, No. 1.

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QUESTION:
Referring to pages 22 of Witness Floyd's direct testimony, how were the payback acceptance curves calculated? Please provide these curves and identify any supporting workbooks and documents involved in their calculation.

RESPONSE:
As described on pages 29 and 30 in Witness Herndon's testimony, market adoption estimates were developed using a payback acceptance criterion. This approach estimates long-run market shares for measures as a function of measure incremental costs and expected bill savings over the measure's effective useful life (inclusive of utility incentives).

This payback acceptance function relates a measure's simple payback time, in years, to the likelihood of the measure being adopted by a typical customer. The exponential function used for the study is embedded in Resource Innovations' proprietary TEAPot model. The equation and an illustration of the curve is provided below.



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QUESTION:
Refer to pages 30-31 of Witness Floyd's direct testimony regarding On Call program for HVAC load control.

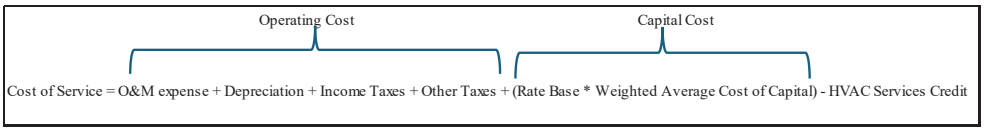
a. Please provide the formula for the monthly charge for an FPL-installed HVAC system.

b. Please identify by what total amount or percentage FPL reduces the payments for an HVAC system under this program "in exchange for the right to control the unit"?

c. Please explain the terms of FPL's HVAC load control operations, particularly the maximum length of time that a device can be prevented from operating both continuously and cumulatively over course the course of a daily peak.

d. After the 10-year tariffed agreement contemplated by this program, who will own the HVAC unit during any remaining useful life?

RESPONSE:
a. As a tariff-based program, the cost of service approach utilized for each individual DSM HVAC customer under this program is designed to ensure FPL will recover the total cost of providing service to each individual customer over the life of the contract. This includes the return of investment through depreciation, the return on the unrecovered investment using the FPSC-approved weighted average cost of capital (WACC), and the recovery of operating and administrative expenses, including income taxes.



The total cost of service for each customer will be levelized over the life of the individual contract to provide a fixed monthly payment while ensuring that FPL recovers the total DSM HVAC program costs from the individual DSM HVAC customers over the life of the HVAC contracts and not from the general body of customers.

b. FPL intends to provide each individual DSM HVAC customer with the option to elect: 1) an upfront credit of $581, or 2) a monthly credit of $6.75 for the contract term. These amounts are based on the most recent assessment of the economic benefits of each additional HVAC unit to FPL's overall cost of electric service under the demand side management program. FPL anticipates that the amount of the credit may change from time to time for newly executed HVAC customer contracts as economic benefits to FPL's overall cost of electric service are likely to change over time.

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c. The terms of the HVAC on-bill load control operations will be consistent with the Residential On Call program. HVAC load control will be limited to 180 minutes per day. The limitations on interruptions shall not apply during emergencies on the Company's system or to interruptions caused by force majeure or other causes beyond the control of the Company. The Company at its discretion may also perform interruptions for readiness testing purposes.

d. The customer will take ownership of the HVAC unit at the end of the contract term assuming they have successfully met all outstanding obligations under the contract.

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QUESTION:
Refer to pages 33-34 of witness Floyd's direct testimony regarding FPL's pilot low income renter program. Has FPL considered approaches to prevent participating property owners from using FPL's investment in an incrementally better HVAC unit as a pretext to increase rents? If so, how does FPL plan to protect tenants from upward rent pressure? If not, why not?

RESPONSE:
Yes. FPL, however, does not have any control over the rent a landlord charges tenants. The proposed pilot program design does remove any cost-based motive a property owner may have to increase rent due to installation of more efficient HVAC equipment. When a landlord replaces HVAC equipment, FPL will pay the incremental cost of a more efficient HVAC unit, up to $1,000. This way, the landlord, will only cover the cost of installing code-compliant equipment when replacing an HVAC unit for a tenant property. This alleviates any additional capital the landlord would need to upgrade to a more energy efficient unit, and therefore, any need for increased rent due to the higher efficiency unit. This pilot program is intended to evaluate landlord's receptivity to this approach for helping renters benefit from the energy savings of more efficient HVAC equipment.

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QUESTION:
Referring to page 35 of Witness Floyd's direct testimony, why does FPL believe it has experienced a decline in participating independent contractor (PIC) participation in recent years?

RESPONSE:
FPL believes there are a variety of factors that have contributed to a decline in PIC participation in recent years. These include changes in market conditions such that many PICs generate satisfactory HVAC replacement activity without relying on FPL. Also, PIC staffing challenges have further limited their interest in leveraging FPL program rebates as these contractors were focusing on their core business. FPL also updated and modernized systems and processes that necessitated additional training for PICs, and some PICs opted not to continue in the program as a result.

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QUESTION:
Referring to page 35 of Witness Floyd's direct testimony, how does FPL account for participation in the On Call program having been significantly below the projections included in its approved 2020 DSM Plan?

RESPONSE:
FPL believes there are a number of factors that have contributed to lower than projected participation in On Call since 2020. The COVID pandemic impacted enrollments in multiple ways. First, during the pandemic, FPL contractors were not able to perform field installations. As the pandemic eased, customers remained reluctant to allow contractors to enter their homes. While these concerns have eased, during this timeframe FPL also experienced increased difficulty in contacting customers via phone to schedule installation appointments as more and more customers are reluctant to answer the phone from numbers they do not recognize. Also, effective in 2020, FPL implemented changes to the program in order to keep the program cost-effective. These changes included the closing of the cycle option for HVAC and reduced monthly bill credits. Although FPL has not achieved the projected enrollments as forecasted in the 2020 DSM Plan, FPL has taken several actions to increase participation. FPL has implemented a new online self-scheduling tool that allows customers to complete the qualification process and schedule an installation appointment at their preferred time. This enhanced process was fully launched in early 2023, and FPL has observed a decrease in applications that do not result in a successful installation. As we have moved beyond the impacts of the COVID pandemic and with implementation of the new self-scheduling tool, enrollments in the On Call program have increased year over year since 2020.

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QUESTION:
Referring to page 3, paragraph 5 of its petition in this case, FPL states that "FPL is an industry leader in DSM." Please explain all bases for this statement, and indicate whether FPL has benchmarked itself against other utilities across the country in terms of current or past DSM performance, and if so, identify all such analyses.

RESPONSE:
Since the inception of DSM programs in Florida, FPL has documented more than 10.5 million customer contacts resulting in 5,579 MW in Summer peak demand reduction, 3,712 MW in Winter peak demand reduction, and 100,422 GWh in annual energy savings.

The United States Department of Energy (DOE) does track participation and potential peak demand impact of direct load control programs in Form 861 maintained by the Energy Information Administration (EIA). In this forum, FPL consistently ranks among the leaders in number of participants and annual summer and winter MW impact.

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QUESTION:
Please explain whether FPL considers itself an industry leader in energy efficiency programs, and if so, please explain all bases for that assertion.

RESPONSE:
FPL has made no such claim. FPL does consider itself a leader in implementing cost-effective DSM in a manner that keeps rates low for all customers whether they participate in FPL DSM programs or not. FPL has been a strong supporter of DSM policy that focuses on low rates that benefit all customers regardless of income or home ownership. Low rates especially benefit low-income customers and renters who may have limited ability to make energy efficiency improvements and also help businesses remain viable.

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QUESTION:
Referring to Witness Floyd's direct testimony at page 8, please explain the basis for FPL's claim that its "typical residential bill is approximately 32% lower than the national average at the time of this filing." Please explain how this calculation was made and identify the data and documents on which it relies.

RESPONSE:
The statement that FPL's "typical residential bill is approximately 32% lower than the national average at the time of this filing" derives from the most recent data sourced from a third-party vendor, Genability. This comparison was drawn from a sample of 50 utilities, selected based on multiple criteria: the utilities were part of a Return on Equity (ROE) peer group, catered to a large customer base and megawatt-hour (MWh) sales, and exhibited a broad geographical spread. Utilizing these factors for reference, the national average was recorded as $189.68 at filing time. In contrast, FPL's bill arrived at $128.88, marking a 32% reduction compared to the national average.

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QUESTION:
Please provide the following information regarding FPL's curtailable and interruptible classes (e.g., CS, CS-2, CS-3, CST-2, CST-3, CL, CILC-1, CDR, ISST-1, etc.).

a. Please provide a list of events where FPL's curtailable/interruptible customers have been curtailed/interrupted in each of the past five years including the number of customers involved, duration of the event, reduction in kW and kWh for each customer, savings realized, incentives or compensation paid and calculation of payments, and average and per customer percent of total load represented by each event.

b. Please forecast the same information requested for in subpart a) for the years 2025-2034, or for as many years as possible.

c. Please explain whether there is a limit on the number of times (or hours) FPL's curtailable/interruptible customers can be curtailed/interrupted.

d. Please provide the compensation customers receive for being curtailable or interruptible. Please provide the calculation to support this compensation.

e. Please explain how much (if any) notice curtailable/interruptible customers receive before curtailment/interruption.

f. Please provide how many of FPL's curtailable/interruptible customers have backup generation.

g. Please provide the total impact on demand (in MW) due to FPL's ability to curtail/interrupt customers.

h. Please provide the total cost savings that come from FPL's interruptible/curtailable load being interruptible/curtailable.

i. Please explain whether FPL's interruptible/curtailable customers have any option to refuse being interrupted/curtailed. If they do have the option, please explain whether this has occurred and under what circumstances.

j. Please explain whether FPL's interruptible/curtailable customers, even if they do not have the option to refuse being interrupted/curtailed, can take power anyway. If they can take power anyway, please explain whether this has occurred and under what circumstances

RESPONSE:
a. No events have occurred in the past 5 years.

b. FPL does not forecast how many events will be called. FPL's load control programs are intended to provide capacity reserves in the event of a capacity shortfall. FPL does not intend to have a capacity shortfall.

c. Curtailable/Interruptible parameters are defined in each tariff for CS-1, CST-1, CS-2, CST-2, CST-3, CS-3, CILC, CDR, CL, and ISST-1. For tariffs CS-1, CST-1, CS-2, CST-2, CST-3, and CS-3, customers may be interrupted all hours established by the Company during a monthly billing period in which the Customer is requested to curtail Demand. These tariffs are closed and no longer available for new enrollments. For CILC-1 and CDR, the Control Conditions will typically result in less than fifteen (15) Load Control Periods per year and will not exceed twenty-five (25) Load Control Periods per year. Typically, the Company will not initiate a Load Control Period within six (6) hours of a previous Load Control Period. The duration of a single Load Control Period will typically be four (4) hours and will not exceed six (6) hours. The company can perform longer load control as described in each individual tariff.

d. The compensation customers receive for being curtailable or interruptible depends on the program they are in enrolled in. Curtailment credits, along with associated monthly rates and demand calculations are outlined in each individual tariff.

e. Curtailment/interruptible notices are outlined in each individual tariff according to the tariff guidelines.

f. Program participation does not require customers to have backup generation. FPL does not have data on how many customers have backup generation.

g. See table below:

Available Capacity (MW) Year-end 2023

	Summer	**Winter**
CILC	450	383
CDR	430	277
Curtailable Service	12	12
Total	892	671

h. FPL interprets "total cost savings" to mean the total impact of the system of FPL's CDR and CILC customers. This total cost savings was last calculated in FPL's last rate case and showed an $853 million CPVRR benefit to FPL's system. Please see the testimony of Dr. Steven Sim in Docket No. 20210015-EI, which is available at: https://www.floridapsc.com/pscfiles/library/filings/2021/02772-2021/02772-2021.pdf.

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i. Only customers that have an approved Request for Maintenance (RFA) can opt out of an event. This has not occurred in the past five years.

j. The customer does not have an opt out option during an event.

DECLARATION

I, John N. Floyd, sponsored the answers to Interrogatory Nos. 17-21, 36-38, 42-43, and 47-52 and I co-sponsored the answers to Interrogatory Nos. 14, 23, 27, 44-46, and 53 from **Florida Rising, ECOSWF, and LULAC's First Set of Interrogatories (Nos. 1-53)** to Florida Power & Light Company in Docket No. 20240012-EG, and the responses are true and correct based on my personal knowledge.

Under penalties of perjury, I declare that I have read the foregoing declaration and the interrogatory answers identified above, and that the facts stated therein are true.

John N. Floyd

Date: 5/14/24

DECLARATION

I, Andrew Whitley, sponsored the answers to Interrogatory Nos. 1-13, 15-16, 22, 24-26, 28, and 53 and I co-sponsored the answers to Interrogatory Nos. 14, 23, 27, 29-31, 33-35 from **Florida Rising, ECOSWF, and LULAC's First Set of Interrogatories (Nos. 1-53)** to Florida Power & Light Company in Docket No. 20240012-EG, and the responses are true and correct based on my personal knowledge.

Under penalties of perjury, I declare that I have read the foregoing declaration and the interrogatory answers identified above, and that the facts stated therein are true.

Andrew Whitley

Date: 05/13/2024

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May 1, 2024

-VIA ELECTRONIC FILING-

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Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

RE: Docket No. 20240002-EG
Energy Conservation Cost Recovery Clause

Dear Mr. Teitzman:

Enclosed for filing on behalf of Florida Power & Light Company ("FPL") in the above-referenced docket is FPL's Petition for Approval of Energy Conservation Cost Recovery True-Up for the Period January 2023 through December 2023. Also enclosed are the supporting testimonies of FPL witnesses Richard L. Hume and L. Kay Hill, along with Exhibit LKH-1.

Thank you for your assistance. Please contact me should you or your staff have any questions regarding this filing.

Sincerely,

/s/ *Joel T. Baker*
Joel T. Baker
Fla. Bar No. 0108202

Attachments
Cc: Counsel for Parties of Record

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Energy Conservation Cost Recovery Clause	Docket No. 20240002-EG
	Filed: May 1, 2024

FLORIDA POWER & LIGHT COMPANY'S PETITION FOR APPROVAL OF ENERGY CONSERVATION COST RECOVERY TRUE-UP FOR THE PERIOD JANUARY 2023 THROUGH DECEMBER 2023

Pursuant to Order No. PSC-2024-0028-PCO-EG, Florida Power & Light Company ("FPL") petitions the Florida Public Service Commission ("Commission") for approval of FPL's Energy Conservation Cost Recovery ("ECCR") clause final net true-up over-recovery of $2,466,525 for the period January 2023 through December 2023. In support of this petition, FPL incorporates the prepared written testimonies of witnesses Richard L. Hume and L. Kay Hill, along with Exhibit LKH-1.

1. FPL is a public utility subject to the Commission's jurisdiction pursuant to Chapter 366, Florida Statutes. Pursuant to Section 366.82, Florida Statutes, and Rule 25-17.015, Florida Administrative Code ("F.A.C."), FPL has an ECCR clause through which it recovers its reasonable and prudent un-reimbursed costs for conservation audits, conservation programs, and the implementation of FPL's conservation plan. FPL has substantial interests in the proper calculation and recovery of its ECCR factor and the final true-up, which is used in the computation of FPL's ECCR factor.

2. The calculations and support for FPL's final net true-up for the period January 2023 through December 2023 are contained in the prepared testimonies of FPL witnesses Hume and Hill, as well as Exhibit LKH-1.

3. Rule 25-17.015(1)(a), F.A.C., provides in part that each utility seeking conservation recovery must file "[a]n annual final true-up showing the common costs, individual program costs and revenues, and actual total ECCR revenues for the most recent 12-month historical period from

January 1 through December 31 that ends prior to the annual ECCR proceedings," along with a summary comparison of the actual costs and revenues reported to the costs and revenues previously estimated for the same period.

4. In Order No. PSC-2023-0342-FOF-EG, dated November 16, 2023, the Commission approved an over-recovery of $12,332,373, including interest, as FPL's actual/estimated ECCR true-up for the period January 2023 through December 2023.

5. FPL's final true-up for the period January 2023 through December 2023 is an over-recovery of $14,798,898, including interest and prior period adjustment.

6. FPL's final true-up over-recovery for the period January 2023 through December 2023 of $14,798,898 minus the actual/estimated over-recovery for the same period of $12,332,373 results in the final net true-up over-recovery of $2,466,525.

7. FPL requests the $2,466,525 over-recovery be included in the calculation of its 2025 ECCR factors. The calculation for the final net true-up for January 2023 through December 2023 was performed consistently with prior true-up calculations approved by the Commission in predecessor ECCR dockets, and those calculations and the supporting documentation are contained in Exhibit LKH-1, co-sponsored by FPL witnesses Hume and Hill. Exhibit LKH-1 consists of (a) the ECCR True-Up Reporting Forms that FPL and other utilities were directed to file by the Commission's Electric & Gas Department memorandum dated April 14, 1982, (b) explanatory supplements to certain of those forms, (c) a complete list of account and subaccount numbers used for ECCR as required by Rule 25-17.015(3), F.A.C., and (d) documentation necessary to support claimed energy savings in conservation advertising as required by Rule 25-17.015(5), F.A.C.

8. The approval of FPL's final ECCR net true-up over-recovery of $2,466,525 for the period January 2023 through December 2023 is in the public interest. Section 366.82, Florida Statutes, and Rule 25-17.015, F.A.C., entitle FPL to relief.

WHEREFORE, FPL respectfully requests that the Commission approve an over-recovery of $2,466,525 as the final net true-up for the January 2023 through December 2023 period, and that the approved final net true-up be carried over and reflected in FPL's 2025 ECCR factors.

Respectfully submitted,

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By: *s/ Joel T. Baker*
Joel T. Baker
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CERTIFICATE OF SERVICE
Docket No. 20240002-EG

I HEREBY CERTIFY that a true and correct copy of the foregoing was served by electronic mail this this 1st day of May 2024 to the following:

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By: *s/ Joel T. Baker*
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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

FLORIDA POWER & LIGHT COMPANY

TESTIMONY OF RICHARD L. HUME

DOCKET NO. 20240002-EG

MAY 1, 2024

Q. Please state your name, business address, employer and position.

A. My name is Richard L. Hume. My business address is 700 Universe Boulevard, Juno Beach, Florida 33408. I am employed by Florida Power & Light Company ("FPL" or the "Company") as Regulatory Issues Manager, FPL Finance.

Q. Please describe your educational background and professional experience.

A. I graduated from the University of Florida in 1991 with a Bachelor of Science degree in Business Administration with a Finance Major and earned a Master of Business Administration degree with a Finance Concentration from the University of Florida in 1995. I have worked in the utility finance sector since 1998, when I was employed by New-Energy Associates, (which became a subsidiary of Siemens Power Generation), working in the areas of financial forecasting and budgeting, as well as cost of service and rate forecasting for both electric and gas utilities. In 2007, I joined Oglethorpe Power and was promoted to the position of Director of Financial Forecasting the following year. In that position, I was primarily responsible for the long-range financial forecast and resource planning along with new rate design. In 2012, I joined FPL, managing a budgeting and data analytics team where my responsibilities included conducting analysis related to customer

rates and bill impacts. In 2019, I joined Gulf Power Company ("Gulf") as a Regulatory Issues Manager, where my responsibilities included oversight of Gulf's Fuel and Purchased Power and Environmental cost recovery clauses, including calculation of cost recovery factors and the related regulatory filings. In my current role, my responsibility and oversight include support for FPL's cost recovery clause filings.

Q. What is the purpose of your testimony in this proceeding?

A. The purpose of my testimony is to present for Florida Public Service Commission ("Commission") review and approval FPL's Energy Conservation Cost Recovery ("ECCR") clause final net true-up amounts for the period January 2023 through December 2023.

Q. Are you sponsoring or co-sponsoring any exhibits in this proceeding?

A. Yes. I am sponsoring Schedules CT-1 and CT-4, and co-sponsoring Schedules CT-2 and CT-3, in Exhibit LKH-1 attached to FPL witness Hill's testimony. The specific sections of Schedules CT-2 and CT-3 that I am sponsoring are identified in the Table of Contents in Exhibit LKH-1.

Q. What is the source of the data you present?

A. Unless otherwise indicated, the data presented in my testimony and supporting forms is taken from FPL's books and records, which are kept in the regular course of FPL's business in accordance with Generally Accepted Accounting Principles and practices, and with the provisions of the Uniform System of Accounts as prescribed by this Commission. Schedule CT-2, Page 6, in Exhibit LKH-1 provides a complete list of all account numbers used for ECCR during the period January 2023 through December 2023.

FPL 2023 FINAL TRUE-UP CALCULATION

Q. What is the actual end of period true-up amount that FPL is requesting the Commission to approve for the January 2023 through December 2023 period?

A. FPL has calculated and is requesting approval of an over-recovery of $14,798,898, including interest, as the actual end of period true-up amount for the period January 2023 through December 2023. The calculation of this $14,798,898 over-recovery is shown on Exhibit LKH-1 Schedule CT-3, Page 8 as the sum of Lines 5, 6 and 10.

Q. What is the final net true-up amount for the January 2023 through December 2023 period that FPL is requesting to be included in the January 2025 through December 2025 ECCR factors?

A. FPL has calculated and is requesting approval of an over-recovery of $2,466,525 as the final net true-up amount for the period January 2023 through December 2023. This final net true-up over-recovery of $2,466,525 is the difference between the actual end of period true-up over-recovery of $14,798,898, and the actual/estimated true-up over-recovery of $12,332,373. The calculation of the $2,466,525 over-recovery is shown on Exhibit LKH-1 Schedule CT-1, Page 2.

Q. Was the calculation of the final net true-up amount for the period January 2023 through December 2023 performed consistently with prior true-up calculations in predecessor ECCR dockets?

A. Yes. The calculation of the final net true-up amount for the period January 2023 through December 2023 was performed consistently with prior true-up calculations in predecessor ECCR clause dockets.

Q. Have you provided a schedule showing the variances between actual and actual/estimated program costs and revenues for the period January 2023 through December 2023?

A. Yes. Exhibit LKH-1 Schedule CT-2, Page 3, compares actual to actual/estimated program costs, revenues, and interest.

Q. Please explain the calculation of FPL's final net true-up amount.

A. Exhibit LKH-1 Schedule CT-1 shows the calculation of FPL's final net true-up for the period January 2023 through December 2023, an over-recovery including interest, of $2,466,525, which FPL is requesting be included in the calculation of the 2025 ECCR factors.

The actual end-of-period over-recovery for the period January 2023 through December 2023 of $14,798,898 (shown on Schedule CT-1, Line 4) minus the actual/estimated end-of-period over-recovery for the same period of $12,332,373 (shown on Schedule CT-1, Line 8) results in the final net true-up over-recovery for the period January 2023 through December 2023 (shown on Schedule CT-1, Line 9) of $2,466,525. The expense detail making up the same 2023 net true up amount can be found on schedule CT-2, Page 3 of Exhibit LKH-1.

Q. Does this conclude your testimony?

A. Yes.

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

FLORIDA POWER & LIGHT COMPANY

TESTIMONY OF L. KAY HILL

DOCKET NO. 20240002-EG

MAY 1, 2024

Q. Please state your name, business address, employer and position.

A. My name is L. Kay Hill. My business address is One Energy Place, Pensacola, Florida 32520. I am employed by Florida Power & Light Company ("FPL") as Manager of Demand-Side Management ("DSM") Regulatory Support.

Q. Please describe your educational background and professional experience.

A. I received a Bachelor Degree in Mechanical Engineering from the University of Alabama. I began my career in the electric utility industry at Southern Company in 2001 and held various positions in Power Delivery, Field Services and Metering, Major and Governmental Accounts, and Customer Service. More recently, I served as a business management lead on tariff initiatives supporting FPL's acquisition and merger with Gulf Power Company ("Gulf"), as well as Gulf's subsequent rate consolidation with FPL. In 2023, I joined FPL in my current role. In this position, I am responsible for supporting the Energy Conservation Cost Recovery ("ECCR") clause and DSM-related filings with the Commission.

Q. What is the purpose of your testimony?

A. The purpose of my testimony is to present the actual ECCR costs for FPL's DSM programs for the period January 2023 through December 2023.

Q. Are you sponsoring or co-sponsoring any exhibits in this proceeding?

A. Yes. I am sponsoring Schedules CT-5, CT-6, and Appendix A, and co-sponsoring Schedules CT-2 and CT-3, in Exhibit LKH-1. The specific sections of Schedules CT-2 and CT-3 that I am sponsoring are identified in the Table of Contents in Exhibit LKH-1.

Q. For the January 2023 through December 2023 period, did FPL seek recovery of any costs for advertising that makes a specific claim of potential energy savings or states appliance efficiency ratings or savings?

A. Yes.

Q. Has FPL complied with Rule 25-17.015(5), Florida Administrative Code, which requires FPL to file all data sources and calculations used to substantiate claims of potential energy savings that are included in advertisements?

A. Yes. The documentation required by this rule is included in Exhibit LKH-1, Appendix A.

Q. Are all costs listed in Exhibit LKH-1, Schedule CT-2, attributable to Commission-approved DSM programs?

A. Yes.

Q. How did FPL's actual program costs for the January 2023 through December 2023 period compare to the actual/estimated costs presented in Docket No. 20230002-EG, and approved in Order No. PSC-2023-0342-FOF-EG?

A. Actual program costs for the period were $154,681,984. The actual/estimated program costs were $155,561,565. Therefore, actual costs were $879,581, or less than one percent, below the actual/estimated costs (see Exhibit LKH-1, Schedule

CT-2, Page 3, Line 9). Each program's contribution to the variance is shown in Exhibit LKH-1, Schedule CT-2, Page 5.

Q. Does this conclude your testimony?

A. Yes.

Docket 20240002-EG
2023 ECCR Final True-Up Calculation
Exhibit LKH-1, Page 1 of 87

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Docket 20240002-EG
2023 ECCR Final True-Up Calculation
Exhibit LKH-1, Page 2 of 87

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
FINAL TRUE-UP FOR THE PERIOD

SCHEDULE CT-1

January 2023 through December 2023

(1)	(2)
	a-2023
1. Actual End of Period True-Up (CT-3, Page 9, Lines 5 & 6)	
2. Principal	$13,442,314
a. Current Period Adjustment	$0
3. Interest	$1,356,583
4. Total Actual End of Period True-Up	$14,798,898
5. Less Actual/Estimated True-Up	
6. Principal	$11,077,535
a. Current Period Adjustment	$0
7. Interest	$1,254,838
8. Total Actual/Estimated True-Up	$12,332,373
9. Final Net True-Up	$2,466,525

Note: () Reflects Underrecovery

Totals may not add due to rounding.

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
CONSERVATION TRUE-UP VARIANCE REPORT

SCHEDULE CT-2

January 2023 through December 2023

Line No.	ACTUAL V. ACTUAL/ESTIMATE FOR THE PERIOD	Actual	Actual/Estimated	Difference
1	Depreciation & Return	$15,801,125	$15,712,468	$88,657
2	Payroll & Benefits	$14,352,681	$14,822,061	($469,380)
3	Materials & Supplies	$311,333	$275,079	$36,254
4	Outside Services	$8,684,082	$9,824,643	($1,140,561)
5	Advertising	$7,759,449	$7,572,189	$187,260
6	Rebates	$104,485,777	$105,099,018	($613,241)
7	Vehicles	$595,008	$581,106	$13,903
8	Other	$2,692,529	$1,675,001	$1,017,528
9	Total Adjusted Program Costs	$154,681,984	$155,561,565	($879,581)
10	ECCR Revenues (Net of Revenue Taxes)	$148,939,568	$147,454,369	$1,485,199
11	Prior Period True-Up (Collected)/Refunded this Period	$19,184,730	$19,184,730	$0
12	Revenues Applicable to the Period (Line 10 + Line 11)	$168,124,298	$166,639,099	$1,485,199
13	True-Up Provision (Under)/Over Recovery - Current Period (Line 12- Line 9)	$13,442,314	$11,077,535	$2,364,780
14	Current Period Adjustment	$0	$0	$0
15	Interest Provision (Under)/Over Recovery - Current Period	$1,356,583	$1,254,838	$101,745
16	True-Up and Interest Provision (Under)/Over Recovery - Beginning of Period	$19,184,730	$19,184,730	$0
17	Deferred True-Up from Prior Period	$6,951,067	$6,951,067	$0
18	Prior Period True-Up (Collected)/Refunded this Period	($19,184,730)	($19,184,730)	$0
19	End of Period True-Up Amount (Under)/Over Recovery	$21,749,965	$19,283,440	$2,466,525

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
CONSERVATION PROGRAM COSTS BY CATEGORY

SCHEDULE CT-2

January 2023 through December 2023

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Line No.	Conservation Programs	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Rebates	Vehicles	Other	Total Program Expenses
1	RESIDENTIAL HOME ENERGY SURVEY	$567,812	$5,008,924	$16,395	$2,419,403	$7,172,242	$0	$362,998	$427,536	$15,975,310
2	RESIDENTIAL CEILING INSULATION	$0	$130,001	$1,776	$73,645	$130,382	$653,215	$0	$35,817	$1,024,836
3	RESIDENTIAL LOAD MANAGEMENT ("ON CALL")	$6,879,386	($381,003)	$253,834	$2,704,904	$197,902	$27,071,845	$31,123	$702,721	$37,460,713
4	RESIDENTIAL AIR CONDITIONING	$129,483	$512,010	$1,113	$104,188	$126,694	$2,763,300	$0	$59,865	$3,696,653
5	RESIDENTIAL NEW CONSTRUCTION (BUILDSMART®)	$0	$328,516	$943	$50,371	$3,904	$12,000	$0	$24,287	$420,021
6	RESIDENTIAL LOW-INCOME WEATHERIZATION	$0	$407,488	$27,656	$1,389,639	$0	$1,191,902	$95,057	$28,831	$3,140,574
7	BUSINESS ON CALL	$295,326	$34,208	$0	$36,606	$0	$2,563,001	$41	$18,882	$2,948,064
8	COGENERATION & SMALL POWER PRODUCTION	$0	$388,262	$40	$5,968	$0	$0	$0	($227,903)	$166,366
9	BUSINESS EFFICIENT LIGHTING	$0	$156,617	$0	$11,442	$883	$437,162	$0	$2,081	$608,186
10	COMMERCIAL/INDUSTRIAL LOAD CONTROL	$0	$270,298	$198	$36	$0	$35,385,540	$0	$52,537	$35,708,608
11	COMMERCIAL/INDUSTRIAL DEMAND REDUCTION	$0	$361,285	$376	$141	$0	$32,896,167	$0	$79,901	$33,337,869
12	BUSINESS ENERGY EVALUATION	$880,820	$2,683,374	$1,761	$551,169	$126,556	$0	$68,932	$621,255	$4,933,866
13	BUSINESS HEATING, VENTILATING & A/C	$0	$641,722	$0	$9,761	$883	$1,435,407	$0	$30,035	$2,117,808
14	CONSERVATION RESEARCH & DEVELOPMENT	$0	$139,898	$0	$500,346	$0	$0	$0	$560	$640,804
15	COMMON EXPENSES	$1,043,377	$3,630,232	$7,241	$875,588	$0	$0	$36,856	$833,337	$6,426,631
16	ENERGY SELECT ECCR	$6,004,920	$34,240	$0	($49,125)	$0	$0	$0	$643	$5,990,678
17	CURTAILABLE LOAD	$0	$6,610	$0	$0	$0	$76,237	$0	$2,148	$84,995
18	TOTAL	$15,801,125	$14,352,681	$311,333	$8,684,082	$7,759,448	$104,485,777	$595,008	$2,692,530	$154,681,984
19										
20	Note: Totals may not add due to rounding.									

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
CONSERVATION PROGRAM COSTS/VARIANCE BY PROJECT

SCHEDULE CT-2

January 2023 through December 2023

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Line No.	CONSERVATION PROGRAMS	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Rebates	Vehicles	Other	Total
1	RESIDENTIAL HOME ENERGY SURVEY	($10,801)	$756,701	$6,869	$204,739	$1,290,036	$0	$88,081	$91,772	$2,427,397
2	RESIDENTIAL CEILING INSULATION	$0	$1,277	$0	($20,093)	$113,552	$150,260	$0	($13,848)	$231,148
3	RESIDENTIAL LOAD MANAGEMENT ("ON CALL")	$157,340	($551,729)	$39,258	($607,488)	$197,902	($128,109)	$21,565	$905,739	$34,477
4	RESIDENTIAL AIR CONDITIONING	$859	$40,511	$976	($1,564)	$104,864	($414,150)	$0	$6,261	($262,242)
5	RESIDENTIAL NEW CONSTRUCTION (BUILDSMART®	$0	($1,810)	$0	($7,524)	$3,904	$4,778	$0	($9,350)	($10,002)
6	RESIDENTIAL LOW-INCOME WEATHERIZATION	$0	($82,471)	$4,647	$54,478	$0	$215,915	($7,448)	($1,222)	$183,898
7	BUSINESS ON CALL	$6,430	($17,146)	$0	($203)	$0	$12,685	$0	$695	$2,460
8	COGENERATION & SMALL POWER PRODUCTION	$0	$63,724	$0	($22,359)	$0	$0	$0	$19,782	$61,147
9	BUSINESS EFFICIENT LIGHTING	$0	($312)	$0	$0	$883	$79,369	$0	($5,151)	$74,789
10	COMMERCIAL/INDUSTRIAL LOAD CONTROL	$0	$31,347	($316)	($26,667)	$0	$633,033	($309)	$22,347	$659,436
11	COMMERCIAL/INDUSTRIAL DEMAND REDUCTION	$0	$5,052	$213	($15,519)	$0	$6,866	($309)	$54,814	$51,117
12	BUSINESS ENERGY EVALUATION	($31,847)	($628,650)	($1,459)	($290,145)	($1,524,738)	$0	($73,126)	($65,148)	($2,615,114)
13	BUSINESS HEATING, VENTILATING & A/C	$0	($1,278)	$0	$0	$883	($1,163,382)	($3,420)	($21,659)	($1,188,855)
14	BUSINESS CUSTOM INCENTIVE	$0	$0	$0	$0	$0	($8,000)	$0	($1,033)	($9,033)
15	CONSERVATION RESEARCH & DEVELOPMENT	$0	$29,370	$0	($300,000)	$0	$0	$0	($3,716)	($274,345)
16	COMMON EXPENSES	($45,592)	($113,930)	($13,933)	($108,604)	($27)	$0	($11,131)	$37,106	($256,111)
17	ENERGY SELECT ECCR	$12,269	($15)	$0	$387	$0	$0	$0	$138	$12,780
18	CURTAILABLE LOAD	$0	($22)	$0	$0	$0	($2,507)	$0	$0	($2,528)
19	TOTAL	$88,657	($469,380)	$36,254	($1,140,561)	$187,260	($613,241)	$13,903	$1,017,528	($879,581)
20										
21	Note: Totals may not add due to rounding.									

SCHEDULE CT-2

Energy Conservation Cost Recovery (ECCR) Account Numbers
For the Period: January through December 2023

Program	Account
Residential Home Energy Survey	408172
	907100
	908110
	909101
	910100
	925112
	926211
Residential Ceiling Insulation	408172
	908110
	925112
	926211
Residential Load Management ("On Call")	408172
	587200
	592800
	598140
	907100
	908110
	925112
	926211
Residential Air Conditioning	408172
	907100
	908110
	925112
	926211
Residential New Construction (BuildSmart®)	408172
	908110
	925112
	926211
Residential Low Income	408172
	907100
	908110
	910100
	925112
	926211
Business On Call	408172
	587200
	908110
	925112
	926211
Cogeneration & Small Power Production	408172
	908110
	925112
	926211
Business Lighting	408172
	908110
	925112
	926211

Program	Account
Commercial/Industrial Load Control	408172
	908110
	910100
	925112
	926211
C/I Demand Reduction	408172
	908110
	910100
	925112
	926211
Business Energy Evaluation	408172
	907100
	908110
	909101
	910100
	925112
	926211
Business HVAC	408172
	908110
	910100
	925112
	926211
Business Custom Incentive	908110
Conservation Research & Development	408172
	908110
	925112
	926211
Common Expenses	408172
	907100
	908110
	910100
	923000
	925112
	926211
	929100
Curtailable	408172
	908110
	925112
	926211
Energy Select	408172
	908110
	925112
	926211

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
CONSERVATION PROGRAM COSTS

SCHEDULE CT-3

January 2023 through December 2023

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Line No.	CONSERVATION PROGRAMS	a-Jan - 2023	a-Feb - 2023	a-Mar - 2023	a-Apr - 2023	a-May - 2023	a-Jun - 2023	a-Jul - 2023	a-Aug - 2023	a-Sep - 2023	a-Oct - 2023	a-Nov - 2023	a-Dec - 2023	Total
1	RESIDENTIAL HOME ENERGY SURVEY	$584,350	$473,149	$639,759	$346,414	$834,753	$1,595,216	$716,422	$1,694,459	$3,491,792	$2,425,609	$705,662	$2,467,725	$15,975,310
2	RESIDENTIAL CEILING INSULATION	$36,935	$37,900	$55,379	$60,703	$72,478	$72,040	$80,277	$171,030	$99,581	$118,884	$76,991	$142,638	$1,024,836
3	RESIDENTIAL LOAD MANAGEMENT ("ON CALL")	$2,362,483	$2,298,353	$2,327,666	$3,677,533	$3,732,335	$3,500,369	$3,299,465	$3,568,746	$3,739,961	$3,919,490	$2,512,335	$2,521,979	$37,460,713
4	RESIDENTIAL AIR CONDITIONING	$262,771	$242,255	$285,044	$177,649	$397,385	$248,058	$366,629	$390,403	$330,821	$424,212	$264,157	$307,269	$3,696,653
5	RESIDENTIAL NEW CONSTRUCTION (BUILDSMART	$31,162	$26,792	$30,211	$111,879	($107,629)	$110,515	$29,227	$38,095	$29,987	$35,376	$35,162	$49,244	$420,021
6	RESIDENTIAL LOW-INCOME WEATHERIZATION	$58,170	$331,067	$146,563	$121,308	$596,960	$297,025	$14,774	$394,073	$161,336	$248,394	$55,996	$714,908	$3,140,574
7	BUSINESS ON CALL	$47,252	$28,628	$31,620	$401,467	$399,564	$397,504	$395,765	$398,076	$394,131	$389,375	$34,967	$29,714	$2,948,064
8	COGENERATION & SMALL POWER PRODUCTION	$12,692	$10,921	$19,274	$8,243	$12,125	$12,347	$11,839	$17,036	$8,400	$12,200	$14,054	$27,237	$166,366
9	BUSINESS EFFICIENT LIGHTING	$33,929	$11,081	$32,723	$20,221	$18,533	$20,811	$54,997	$37,100	$22,549	$83,593	$57,083	$215,566	$608,186
10	COMMERCIAL/INDUSTRIAL LOAD CONTROL	$2,565,054	$2,687,711	$2,731,629	$2,902,573	$2,889,132	$3,062,385	$3,164,474	$3,376,248	$3,335,402	$3,255,759	$3,141,155	$2,597,085	$35,708,608
11	COMMERCIAL/INDUSTRIAL DEMAND REDUCTION	$2,207,868	$2,264,300	$2,372,013	$2,551,369	$2,854,559	$3,191,348	$3,209,264	$3,427,357	$3,154,218	$3,030,265	$2,663,523	$2,411,784	$33,337,869
12	BUSINESS ENERGY EVALUATION	$370,082	$302,919	$559,220	$359,900	$513,795	$379,252	$425,533	$526,733	$325,314	$345,901	$352,590	$472,628	$4,933,866
13	BUSINESS HEATING, VENTILATING & A/C	$188,620	$128,420	$220,448	$113,265	$299,361	$191,061	$77,023	$134,513	$124,188	$120,200	$223,251	$297,458	$2,117,808
14	CONSERVATION RESEARCH & DEVELOPMENT	$7,547	$6,811	$11,732	$82,111	$398,807	$59,705	$7,203	$7,889	$7,517	$16,197	$19,450	$15,835	$640,804
15	COMMON EXPENSES	$442,675	$532,659	$517,660	$528,527	$554,703	$486,439	$477,503	$527,818	$430,340	$502,474	$732,131	$693,702	$6,426,631
16	ENERGY SELECT ECCR	$326,388	$624,288	$498,405	$496,451	$492,039	$647,391	$491,132	$488,482	$485,810	$482,845	$480,114	$477,333	$5,990,678
17	CURTAILABLE LOAD	$44,486	$13,397	$9,592	$8,284	$4,743	$2,851	$270	$295	$214	$279	$297	$286	$84,995
18	TOTAL	$9,582,463	$10,020,653	$10,488,941	$11,967,897	$13,963,641	$14,274,317	$12,821,796	$15,198,355	$16,141,561	$15,411,054	$11,368,918	$13,442,388	$154,681,984
19														
20	Note: Totals may not add due to rounding.													

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
CONSERVATION TRUE-UP CALCULATION

SCHEDULE CT-3

January 2023 through December 2023

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	a-Jan - 2023	a-Feb - 2023	a-Mar - 2023	a-Apr - 2023	a-May - 2023	a-Jun - 2023	a-Jul - 2023	a-Aug - 2023	a-Sep - 2023	a-Oct - 2023	a-Nov - 2023	a-Dec - 2023	Total
1. Conservation Clause Revenues (Net of Revenue Taxes)	$10,993,587	$10,317,154	$11,059,093	$11,869,274	$12,118,356	$13,009,226	$14,651,888	$15,212,009	$14,796,677	$13,094,647	$11,354,623	$10,463,035	$148,939,568
2. Adjustment Not Applicable to Period - Prior True-Up	$1,598,728	$1,598,728	$1,598,728	$1,598,728	$1,598,728	$1,598,728	$1,598,728	$1,598,728	$1,598,728	$1,598,728	$1,598,728	$1,598,728	$19,184,730
3. Conservation Revenues Applicable to Period (Line 1+2)	$12,592,315	$11,915,881	$12,657,820	$13,468,002	$13,717,083	$14,607,953	$16,250,616	$16,810,737	$16,395,404	$14,693,374	$12,953,350	$12,061,762	$168,124,298
4. Conservation Expenses	$9,582,463	$10,020,653	$10,488,941	$11,967,897	$13,963,641	$14,274,317	$12,821,796	$15,198,355	$16,141,561	$15,411,054	$11,368,918	$13,442,388	$154,681,984
5. True-Up This Period (Line 3-4)	$3,009,852	$1,895,228	$2,168,879	$1,500,105	($246,558)	$333,636	$3,428,819	$1,612,382	$253,843	($717,680)	$1,584,433	($1,380,626)	$13,442,314
6. Interest Provision for the Month	$100,431	$107,361	$112,637	$116,651	$116,188	$112,929	$117,188	$124,516	$121,640	$114,341	$109,744	$102,958	$1,356,583
7. True-Up & Interest Provision Beginning of Month	$19,184,730	$20,696,286	$21,100,148	$21,782,936	$21,800,965	$20,071,867	$18,919,705	$20,866,985	$21,005,156	$19,781,910	$17,579,844	$17,675,293	$19,184,730
7a. Deferred True-Up Beginning of Period	$6,951,067	$6,951,067	$6,951,067	$6,951,067	$6,951,067	$6,951,067	$6,951,067	$6,951,067	$6,951,067	$6,951,067	$6,951,067	$6,951,067	
8.True-Up Collected/(Refunded) (see Line 2)	($1,598,728)	($1,598,728)	($1,598,728)	($1,598,728)	($1,598,728)	($1,598,728)	($1,598,728)	($1,598,728)	($1,598,728)	($1,598,728)	($1,598,728)	($1,598,728)	($19,184,730)
9.End of Period Total True-Up (Lines 5+6+7+7a+8)	$27,647,353	$28,051,214	$28,734,003	$28,752,032	$27,022,934	$25,870,772	$27,818,052	$27,956,222	$26,732,978	$24,530,911	$24,626,360	$21,749,964	$14,798,898
10.Adjustment to Period True-Up Including Interest	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
11.End of Period Total True-Up (Lines 9 + 10)	$27,647,353	$28,051,214	$28,734,003	$28,752,032	$27,022,934	$25,870,772	$27,818,052	$27,956,222	$26,732,978	$24,530,911	$24,626,360	$21,749,964	$14,798,898

Note: ( ) Reflects Underrecovery

Totals may not add due to rounding.

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
CONSERVATION TRUE-UP CALCULATION

SCHEDULE CT-3

January 2023 through December 2023

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Interest Provision	a-Jan - 2023	a-Feb - 2023	a-Mar - 2023	a-Apr - 2023	a-May - 2023	a-Jun - 2023	a-Jul - 2023	a-Aug - 2023	a-Sep - 2023	a-Oct - 2023	a-Nov - 2023	a-Dec - 2023	Total
1. Beginning True-Up Amount	$26,135,797	$27,647,353	$28,051,214	$28,734,003	$28,752,032	$27,022,934	$25,870,772	$27,818,052	$27,956,222	$26,732,977	$24,530,911	$24,626,360	
2. Ending True-Up Amount Before Interest	$27,546,922	$27,943,854	$28,621,366	$28,635,381	$26,906,746	$25,757,843	$27,700,864	$27,831,706	$26,611,338	$24,416,570	$24,516,616	$21,647,006	
3. Total of Beginning & Ending True-Up (Line 1 + 2)	$53,682,718	$55,591,207	$56,672,581	$57,369,384	$55,658,779	$52,780,777	$53,571,636	$55,649,758	$54,567,560	$51,149,547	$49,047,526	$46,273,365	
4. Average True-Up Amount (50% of Line 3)	$26,841,359	$27,795,603	$28,336,290	$28,684,692	$27,829,389	$26,390,389	$26,785,818	$27,824,879	$27,283,780	$25,574,774	$24,523,763	$23,136,683	
5. Interest Rate - First Day of Reporting Business Month	4.37000%	4.61000%	4.66000%	4.88000%	4.88000%	5.14000%	5.13000%	5.37000%	5.37000%	5.33000%	5.40000%	5.34000%	
6. Interest Rate - First Day of Subsequent Business Month	4.61000%	4.66000%	4.88000%	4.88000%	5.14000%	5.13000%	5.37000%	5.37000%	5.33000%	5.40000%	5.34000%	5.34000%	
7. Total (Line 5 + 6)	8.98000%	9.27000%	9.54000%	9.76000%	10.02000%	10.27000%	10.50000%	10.74000%	10.70000%	10.73000%	10.74000%	10.68000%	
8. Average Interest Rate (50% of Line 7)	4.49000%	4.63500%	4.77000%	4.88000%	5.01000%	5.13500%	5.25000%	5.37000%	5.35000%	5.36500%	5.37000%	5.34000%	
9. Monthly Average Interest Rate (Line 8 / 12)	0.37417%	0.38625%	0.39750%	0.40667%	0.41750%	0.42792%	0.43750%	0.44750%	0.44583%	0.44708%	0.44750%	0.44500%	
10. Interest Provision for the Month (Line 4 x 9)	$100,431	$107,361	$112,637	$116,651	$116,188	$112,929	$117,188	$124,516	$121,640	$114,341	$109,744	$102,958	$1,356,583

Note: Totals may not add due to rounding.

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
SCHEDULE OF CAPITAL INVESTMENT, DEPRECIATION RETURN

SCHEDULE CT-4

January 2023 through December 2023

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Beginning of Period Amount	a-Jan - 2023	a-Feb - 2023	a-Mar - 2023	a-Apr - 2023	a-May - 2023	a-Jun - 2023	a-Jul - 2023	a-Aug - 2023	a-Sep - 2023	a-Oct - 2023	a-Nov - 2023	a-Dec - 2023	Twelve Month Amount
RESIDENTIAL HOME ENERGY SURVEY														
1. Investments														
a. Expenditures		$22,409	$32,281	$62,032	$22,910	$103,352	$34,861	($202,233)	$13,199	$8,664	$8,949	$10,104	($173,435)	($56,906)
b. Additions to Plant		$0	$0	$54,149	$0	$0	$0	$0	$0	$0	$0	$0	$0	$54,149
c. Retirements		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
d. Cost of Removal		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
e. Salvage		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
f. Transfer Adjustments		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2. Plant In-Service/Depreciation Base	$2,487,247	$2,487,247	$2,487,247	$2,541,396	$2,541,396	$2,541,396	$2,541,396	$2,541,396	$2,541,396	$2,541,396	$2,541,396	$2,541,396	$2,541,396	
3. Less: Accumulated Depreciation	$1,726,510	$1,767,995	$1,809,479	$1,851,285	$1,893,414	$1,935,543	$1,977,672	$2,019,801	$2,061,930	$2,104,059	$2,146,187	$2,188,316	$2,230,445	
4. CWIP - Non Interest Bearing	$117,416	$139,824	$172,106	$179,989	$202,899	$306,251	$341,113	$138,879	$152,079	$160,743	$169,692	$179,796	$6,361	
5. Net Investment (Lines 2 - 3 + 4)	$878,152	$859,077	$849,874	$870,099	$850,880	$912,104	$904,836	$660,474	$631,545	$598,080	$564,900	$532,875	$317,312	
6. Average Net Investment		$868,614	$854,475	$859,987	$860,490	$881,492	$908,470	$782,655	$646,009	$614,812	$581,490	$548,888	$425,094	
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes [b]		$5,159	$5,075	$5,108	$5,111	$5,235	$5,396	$4,648	$3,837	$3,652	$3,454	$3,260	$2,525	$52,459
b. Debt Component (Line 6 x debt rate) [c]		$1,123	$1,105	$1,112	$1,112	$1,140	$1,174	$1,012	$835	$795	$752	$710	$550	$11,419
8. Investment Expenses														
a. Depreciation [a]		$41,484	$41,484	$41,807	$42,129	$42,129	$42,129	$42,129	$42,129	$42,129	$42,129	$42,129	$42,129	$503,935
b. Amortization		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
c. Dismantlement		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
d. Other		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9. Total System Recoverable Expenses (Lines 7 + 8)		$47,766	$47,664	$48,026	$48,352	$48,504	$48,699	$47,789	$46,801	$46,575	$46,334	$46,098	$45,203	$567,812

(a) The Equity Component is based on the approved ROE reflected in Form 9A and grossed up for taxes.

(b) The Debt Component for the period is based on the information reflected in Form 9A.

(c) Depreciation expenses is based on the "Cradle-to-Grave" method of accounting.

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
SCHEDULE OF CAPITAL INVESTMENT, DEPRECIATION RETURN

SCHEDULE CT-4

January 2023 through December 2023

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Beginning of Period Amount	a-Jan - 2023	a-Feb - 2023	a-Mar - 2023	a-Apr - 2023	a-May - 2023	a-Jun - 2023	a-Jul - 2023	a-Aug - 2023	a-Sep - 2023	a-Oct - 2023	a-Nov - 2023	a-Dec - 2023	Twelve Month Amount
LOAD MANAGEMENT ON-CALL PROGRAM														
1. Investments														
a. Expenditures		$1,218,690	$1,063,165	$465,327	$280,644	$298,879	$1,710,138	$812,287	$1,013,510	$1,292,762	$953,994	$170,054	$100,182	$9,379,633
b. Additions to Plant		$1,372,814	$1,062,157	$425,704	$123,330	$271,040	$1,483,938	$668,088	$978,851	$825,028	$944,703	$143,583	$53,399	$8,352,635
c. Retirements		($508,888)	($834,720)	($121,245)	($56,495)	($153,442)	($128,884)	($561,911)	($68,757)	($1,786,195)	($325,231)	($114,345)	($314,262)	($4,974,374)
d. Cost of Removal		($11)	$254	($12)	$0	($2,308)	($6,711)	$174	($1,500)	($1,240)	($5,123)	($745)	($379)	($17,599)
e. Salvage		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
f. Transfer Adjustments		$0	$0	$0	$0	$0	$0	$0	$0	$0	($142)	$0	$0	($142)
2. Plant In-Service/Depreciation Base	$24,963,543	$25,827,469	$26,054,907	$26,359,366	$26,426,201	$26,543,799	$27,898,853	$28,005,030	$28,915,123	$27,953,957	$28,573,429	$28,602,667	$28,341,804	
3. Less: Accumulated Depreciation	$9,714,959	$9,627,414	$9,223,397	$9,537,021	$9,918,501	$10,202,264	$10,518,453	$10,420,677	$10,822,850	$9,507,420	$9,646,065	$10,005,538	$10,163,530	
4. CWIP - Non Interest Bearing	$2,251,620	$2,097,496	$2,098,503	$2,138,127	$2,295,441	$2,323,280	$2,549,480	$2,693,680	$2,728,339	$3,196,073	$3,205,364	$3,231,835	$3,278,618	
5. Net Investment (Lines 2 - 3 + 4)	$17,500,204	$18,297,551	$18,930,013	$18,960,471	$18,803,140	$18,664,815	$19,929,880	$20,278,032	$20,820,613	$21,642,611	$22,132,729	$21,828,964	$21,456,893	
6. Average Net Investment		$17,898,877	$18,613,782	$18,945,242	$18,881,806	$18,733,978	$19,297,348	$20,103,956	$20,549,323	$21,231,612	$21,887,670	$21,980,846	$21,642,928	
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes [b]		$106,307	$110,553	$112,522	$112,145	$111,267	$114,613	$119,404	$122,049	$126,101	$129,998	$130,551	$128,544	$1,424,055
b. Debt Component (Line 6 x debt rate) [c]		$23,140	$24,064	$24,492	$24,410	$24,219	$24,948	$25,990	$26,566	$27,448	$28,296	$28,417	$27,980	$309,971
8. Investment Expenses														
a. Depreciation [a]		$421,354	$430,448	$434,881	$437,975	$439,512	$451,784	$463,961	$472,430	$472,004	$469,141	$474,563	$472,633	$5,440,685
b. Amortization		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
c. Dismantlement		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
d. Other		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9. Total System Recoverable Expenses (Lines 7 + 8)		$550,801	$565,066	$571,895	$574,531	$574,998	$591,345	$609,355	$621,045	$625,554	$627,435	$633,531	$629,157	$7,174,712

(a) The Equity Component is based on the approved ROE reflected in Form 9A and grossed up for taxes.

(b) The Debt Component for the period is based on the information reflected in Form 9A.

(c) Depreciation expenses is based on the "Cradle-to-Grave" method of accounting.

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
SCHEDULE OF CAPITAL INVESTMENT, DEPRECIATION RETURN

SCHEDULE CT-4

January 2023 through December 2023

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Beginning of Period Amount	a-Jan - 2023	a-Feb - 2023	a-Mar - 2023	a-Apr - 2023	a-May - 2023	a-Jun - 2023	a-Jul - 2023	a-Aug - 2023	a-Sep - 2023	a-Oct - 2023	a-Nov - 2023	a-Dec - 2023	Twelve Month Amount
COMMON EXPENSES														
1. Investments														
a. Expenditures		$155,175	$216,467	$297,650	$126,109	$188,232	$401,615	($664,250)	$565,115	($273,802)	$334,476	$56,134	($2,486,224)	($1,083,301)
b. Additions to Plant		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
c. Retirements		$0	$0	$0	$0	$0	($623,747)	$0	$0	$0	$0	$0	$0	($623,747)
d. Cost of Removal		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
e. Salvage		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
f. Transfer Adjustments		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2. Plant In-Service/Depreciation Base	$3,893,179	$3,893,179	$3,893,179	$3,893,179	$3,893,179	$3,893,179	$3,269,432	$3,269,432	$3,269,432	$3,269,432	$3,269,432	$3,269,432	$3,269,432	
3. Less: Accumulated Depreciation	$1,462,988	$1,527,883	$1,592,778	$1,657,673	$1,722,568	$1,782,265	$1,213,017	$1,267,516	$1,322,015	$1,376,514	$1,431,014	$1,485,513	$1,540,012	
4. CWIP - Non Interest Bearing	$1,083,457	$1,238,632	$1,455,099	$1,752,748	$1,878,858	$2,067,090	$2,468,705	$1,804,456	$2,369,571	$2,095,769	$2,430,245	$2,486,379	$156	
5. Net Investment (Lines 2 - 3 + 4)	$3,513,647	$3,603,928	$3,755,500	$3,988,254	$4,049,469	$4,178,004	$4,525,120	$3,806,371	$4,316,987	$3,988,686	$4,268,663	$4,270,298	$1,729,576	
6. Average Net Investment		$3,558,788	$3,679,714	$3,871,877	$4,018,862	$4,113,736	$4,351,562	$4,165,746	$4,061,679	$4,152,837	$4,128,675	$4,269,481	$2,999,937	
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes [b]		$21,137	$21,855	$22,996	$23,869	$24,433	$25,845	$24,742	$24,124	$24,665	$24,522	$25,358	$17,818	$281,363
b. Debt Component (Line 6 x debt rate) [c]		$4,601	$4,757	$5,006	$5,196	$5,318	$5,626	$5,385	$5,251	$5,369	$5,338	$5,520	$3,878	$61,244
8. Investment Expenses														
a. Depreciation [a]		$64,895	$64,895	$64,895	$64,895	$59,697	$54,499	$54,499	$54,499	$54,499	$54,499	$54,499	$54,499	$700,771
b. Amortization		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
c. Dismantlement		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
d. Other		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9. Total System Recoverable Expenses (Lines 7 + 8)		$90,633	$91,507	$92,897	$93,960	$89,448	$85,970	$84,626	$83,874	$84,533	$84,358	$85,377	$76,195	$1,043,377

(a) The Equity Component is based on the approved ROE reflected in Form 9A and grossed up for taxes.

(b) The Debt Component for the period is based on the information reflected in Form 9A.

(c) Depreciation expenses is based on the "Cradle-to-Grave" method of accounting.

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
SCHEDULE OF CAPITAL INVESTMENT, DEPRECIATION RETURN

SCHEDULE CT-4

January 2023 through December 2023

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Beginning of Period Amount	a-Jan - 2023	a-Feb - 2023	a-Mar - 2023	a-Apr - 2023	a-May - 2023	a-Jun - 2023	a-Jul - 2023	a-Aug - 2023	a-Sep - 2023	a-Oct - 2023	a-Nov - 2023	a-Dec - 2023	Twelve Month Amount
BUSINESS ENERGY EVALUATION														
1. Investments														
a. Expenditures		$36,678	$169,723	$115,777	$59,279	$75,797	$94,190	($71,908)	$29,154	$40	$30,703	$6	($1,635,454)	($1,096,014)
b. Additions to Plant		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
c. Retirements		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
d. Cost of Removal		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
e. Salvage		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
f. Transfer Adjustments		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2. Plant In-Service/Depreciation Base	$3,388,500	$3,388,500	$3,388,500	$3,388,500	$3,388,500	$3,388,500	$3,388,500	$3,388,500	$3,388,500	$3,388,500	$3,388,500	$3,388,500	$3,388,500	
3. Less: Accumulated Depreciation	$2,110,858	$2,167,333	$2,223,808	$2,280,283	$2,336,758	$2,393,233	$2,449,707	$2,506,182	$2,562,657	$2,619,132	$2,675,607	$2,732,082	$2,786,270	
4. CWIP - Non Interest Bearing	$1,096,014	$1,132,692	$1,302,415	$1,418,193	$1,477,471	$1,553,269	$1,647,459	$1,575,551	$1,604,705	$1,604,745	$1,635,448	$1,635,454	$0	
5. Net Investment (Lines 2 - 3 + 4)	$2,373,656	$2,353,859	$2,467,107	$2,526,410	$2,529,213	$2,548,536	$2,586,251	$2,457,868	$2,430,547	$2,374,112	$2,348,340	$2,291,871	$602,229	
6. Average Net Investment		$2,363,758	$2,410,483	$2,496,758	$2,527,811	$2,538,874	$2,567,393	$2,522,060	$2,444,208	$2,402,330	$2,361,226	$2,320,106	$1,447,050	
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes [b]		$14,039	$14,317	$14,829	$15,013	$15,079	$15,249	$14,979	$14,517	$14,268	$14,024	$13,780	$8,594	$168,689
b. Debt Component (Line 6 x debt rate) [c]		$3,056	$3,116	$3,228	$3,268	$3,282	$3,319	$3,261	$3,160	$3,106	$3,053	$2,999	$1,871	$36,718
8. Investment Expenses														
a. Depreciation [a]		$56,475	$56,475	$56,475	$56,475	$56,475	$56,475	$56,475	$56,475	$56,475	$56,475	$56,475	$54,188	$675,413
b. Amortization		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
c. Dismantlement		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
d. Other		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9. Total System Recoverable Expenses (Lines 7 + 8)		$73,570	$73,908	$74,532	$74,756	$74,836	$75,043	$74,715	$74,152	$73,849	$73,552	$73,254	$64,653	$880,820

(a) The Equity Component is based on the approved ROE reflected in Form 9A and grossed up for taxes.

(b) The Debt Component for the period is based on the information reflected in Form 9A.

(c) Depreciation expenses is based on the "Cradle-to-Grave" method of accounting.

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
SCHEDULE OF CAPITAL INVESTMENT, DEPRECIATION RETURN

SCHEDULE CT-4

January 2023 through December 2023

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Beginning of Period Amount	a-Jan - 2023	a-Feb - 2023	a-Mar - 2023	a-Apr - 2023	a-May - 2023	a-Jun - 2023	a-Jul - 2023	a-Aug - 2023	a-Sep - 2023	a-Oct - 2023	a-Nov - 2023	a-Dec - 2023	Twelve Month Amount
RESIDENTIAL AIR CONDITIONING														
1. Investments														
a. Expenditures		$6,798	$6,135	$1,700	$1,201	$1,520	$1,450	$1,387	$1,496	$1,048	$1,442	$1,442	$1,376	$26,994
b. Additions to Plant		$6,798	$6,135	$1,700	$1,201	$1,520	$1,450	$2,045	$838	$1,048	$1,442	$1,442	$1,376	$26,994
c. Retirements		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
d. Cost of Removal		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
e. Salvage		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
f. Transfer Adjustments		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2. Plant In-Service/Depreciation Base	$468,298	$475,096	$481,230	$482,930	$484,131	$485,651	$487,101	$489,146	$489,984	$491,032	$492,474	$493,916	$495,292	
3. Less: Accumulated Depreciation	$99,001	$107,016	$115,173	$123,418	$131,696	$140,007	$148,353	$156,742	$165,168	$173,619	$182,102	$190,625	$199,188	
4. CWIP - Non Interest Bearing	($0)	($0)	($0)	($0)	($0)	($0)	($0)	($659)	$0	$0	$0	$0	$0	
5. Net Investment (Lines 2 - 3 + 4)	$369,297	$368,080	$366,057	$359,512	$352,434	$345,644	$338,748	$331,745	$324,816	$317,414	$310,372	$303,290	$296,103	
6. Average Net Investment		$368,688	$367,068	$362,785	$355,973	$349,039	$342,196	$335,247	$328,281	$321,115	$313,893	$306,831	$299,697	
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes [b]		$2,190	$2,180	$2,155	$2,114	$2,073	$2,032	$1,991	$1,950	$1,907	$1,864	$1,822	$1,780	$24,059
b. Debt Component (Line 6 x debt rate) [c]		$477	$475	$469	$460	$451	$442	$433	$424	$415	$406	$397	$387	$5,237
8. Investment Expenses														
a. Depreciation [a]		$8,015	$8,157	$8,245	$8,278	$8,310	$8,346	$8,389	$8,426	$8,450	$8,484	$8,523	$8,563	$100,187
b. Amortization		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
c. Dismantlement		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
d. Other		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9. Total System Recoverable Expenses (Lines 7 + 8)		$10,681	$10,812	$10,869	$10,853	$10,835	$10,821	$10,814	$10,800	$10,773	$10,754	$10,742	$10,730	$129,483

(a) The Equity Component is based on the approved ROE reflected in Form 9A and grossed up for taxes.

(b) The Debt Component for the period is based on the information reflected in Form 9A.

(c) Depreciation expenses is based on the "Cradle-to-Grave" method of accounting.

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
SCHEDULE OF CAPITAL INVESTMENT, DEPRECIATION RETURN

SCHEDULE CT-4

January 2023 through December 2023

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Beginning of Period Amount	a-Jan - 2023	a-Feb - 2023	a-Mar - 2023	a-Apr - 2023	a-May - 2023	a-Jun - 2023	a-Jul - 2023	a-Aug - 2023	a-Sep - 2023	a-Oct - 2023	a-Nov - 2023	a-Dec - 2023	Twelve Month Amount
ENERGY SELECT ECCR														
1. Investments														
a. Expenditures		$0	$0	$0	$0	$0	$0	$4,312	$0	$0	$0	($4,312)	$0	$0
b. Additions to Plant		$0	$0	$0	$0	$0	$0	$0	$4,312	$0	$0	($4,312)	$0	$0
c. Retirements		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
d. Cost of Removal		$0	$0	$0	$0	$0	$0	$4,312	$0	$0	$0	($4,312)	$0	$0
e. Salvage		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
f. Transfer Adjustments		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2. Plant In-Service/Depreciation Base	$0	$0	$0	$0	$0	$0	$0	$0	$4,312	$4,312	$4,312	$0	$0	
3. Less: Accumulated Depreciation	$0	$0	$0	$0	$0	$0	$0	$4,312	$4,317	$4,328	$4,339	$32	$0	
a. Capital Recovery Unamortized Balance	($17,729,656)	($17,360,288)	($16,990,920)	($16,621,553)	($16,252,185)	($15,882,817)	($15,739,208)	($15,360,810)	($14,982,411)	($14,604,013)	($14,225,615)	($13,847,217)	($13,468,819)	
4. CWIP - Non Interest Bearing	$0	$0	$0	$0	$0	$0	$0	$4,312	$0	$0	$0	$0	$0	
5. Net Investment (Lines 2 - 3 + 4)	$17,729,656	$17,360,288	$16,990,920	$16,621,553	$16,252,185	$15,882,817	$15,739,208	$15,360,810	$14,982,406	$14,603,997	$14,225,588	$13,847,185	$13,468,819	
6. Average Net Investment		$17,544,972	$17,175,604	$16,806,237	$16,436,869	$16,067,501	$15,811,012	$15,550,009	$15,171,608	$14,793,201	$14,414,793	$14,036,386	$13,658,002	
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes [b]		$104,205	$102,011	$99,818	$97,624	$95,430	$93,907	$92,356	$90,109	$87,862	$85,614	$83,367	$81,119	$1,113,422
b. Debt Component (Line 6 x debt rate) [c]		$22,682	$22,205	$21,727	$21,250	$20,772	$20,440	$20,103	$19,614	$19,125	$18,635	$18,146	$17,657	$242,356
8. Investment Expenses														
a. Depreciation [a]		$0	$0	$0	$0	$0	$0	$0	$5	$11	$11	$5	($32)	$0
b. Amortization		$369,368	$369,368	$369,368	$369,368	$369,368	$531,914	$378,398	$378,398	$378,398	$378,398	$378,398	$378,398	$4,649,142
c. Dismantlement		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
d. Other		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9. Total System Recoverable Expenses (Lines 7 + 8)		$496,255	$493,584	$490,913	$488,241	$485,570	$646,261	$490,858	$488,126	$485,395	$482,658	$479,916	$477,142	$6,004,920

(a) The Equity Component is based on the approved ROE reflected in Form 9A and grossed up for taxes.

(b) The Debt Component for the period is based on the information reflected in Form 9A.

(c) Depreciation expenses is based on the "Cradle-to-Grave" method of accounting.

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
SCHEDULE OF CAPITAL INVESTMENT, DEPRECIATION RETURN

SCHEDULE CT-4

January 2023 through December 2023

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Beginning of Period Amount	a-Jan - 2023	a-Feb - 2023	a-Mar - 2023	a-Apr - 2023	a-May - 2023	a-Jun - 2023	a-Jul - 2023	a-Aug - 2023	a-Sep - 2023	a-Oct - 2023	a-Nov - 2023	a-Dec - 2023	Twelve Month Amount
BUSINESS ON CALL														
1. Investments														
a. Expenditures		$46,310	$40,400	$17,682	$10,664	$11,357	$64,985	$30,867	$38,513	$49,125	$36,252	$6,462	$3,807	$356,426
b. Additions to Plant		$52,167	$40,362	$16,177	$4,687	$10,300	$56,390	$25,387	$37,196	$31,351	$35,899	$5,456	$2,029	$317,400
c. Retirements		($19,338)	($31,719)	($4,607)	($2,147)	($5,831)	($4,898)	($21,353)	($2,613)	($67,875)	($12,359)	($4,345)	($11,942)	($189,026)
d. Cost of Removal		($0)	$10	($0)	$0	($88)	($255)	$7	($57)	($47)	($195)	($28)	($14)	($669)
e. Salvage		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
f. Transfer Adjustments		$0	$0	$0	$0	$0	$0	$0	$0	$0	($5)	$0	$0	($5)
2. Plant In-Service/Depreciation Base	$1,409,179	$1,442,008	$1,450,651	$1,462,220	$1,464,760	$1,469,229	$1,520,721	$1,524,755	$1,559,339	$1,522,815	$1,546,354	$1,547,465	$1,537,553	
3. Less: Accumulated Depreciation	$585,857	$582,530	$567,177	$579,095	$593,591	$604,374	$616,390	$612,674	$627,957	$577,970	$583,239	$596,899	$602,902	
4. CWIP - Non Interest Bearing	$103,103	$97,246	$97,284	$98,790	$104,768	$105,826	$114,422	$119,901	$121,218	$138,992	$139,345	$140,351	$142,129	
5. Net Investment (Lines 2 - 3 + 4)	$926,425	$956,724	$980,758	$981,915	$975,936	$970,680	$1,018,753	$1,031,982	$1,052,600	$1,083,836	$1,102,461	$1,090,918	$1,076,779	
6. Average Net Investment		$941,574	$968,741	$981,336	$978,926	$973,308	$994,716	$1,025,367	$1,042,291	$1,068,218	$1,093,149	$1,096,689	$1,083,848	
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes [b]		$5,592	$5,754	$5,828	$5,814	$5,781	$5,908	$6,090	$6,191	$6,344	$6,493	$6,514	$6,437	$72,746
b. Debt Component (Line 6 x debt rate) [c]		$1,217	$1,252	$1,269	$1,266	$1,258	$1,286	$1,326	$1,347	$1,381	$1,413	$1,418	$1,401	$15,834
8. Investment Expenses														
a. Depreciation [a]		$16,011	$16,357	$16,525	$16,643	$16,701	$17,168	$17,631	$17,952	$17,936	$17,827	$18,033	$17,960	$206,746
b. Amortization		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
c. Dismantlement		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
d. Other		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9. Total System Recoverable Expenses (Lines 7 + 8)		$22,821	$23,363	$23,623	$23,723	$23,741	$24,362	$25,046	$25,490	$25,662	$25,733	$25,965	$25,799	$295,326

(a) The Equity Component is based on the approved ROE reflected in Form 9A and grossed up for taxes.

(b) The Debt Component for the period is based on the information reflected in Form 9A.

(c) Depreciation expenses is based on the "Cradle-to-Grave" method of accounting.

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY (ECCR)
SCHEDULE OF CAPITAL INVESTMENT, DEPRECIATION RETURN

SCHEDULE CT-4

January 2023 through December 2023

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Beginning of Period Amount	a-Jan - 2023	a-Feb - 2023	a-Mar - 2023	a-Apr - 2023	a-May - 2023	a-Jun - 2023	a-Jul - 2023	a-Aug - 2023	a-Sep - 2023	a-Oct - 2023	a-Nov - 2023	a-Dec - 2023	Twelve Month Amount
RESIDENTIAL LOAD MANAGEMENT ("ON CALL")														
1. Investments														
a. Expenditures		$1,172,380	$1,022,764	$447,645	$269,980	$287,522	$1,645,153	$781,420	$974,997	$1,243,637	$917,742	$163,592	$96,375	$9,023,207
b. Additions to Plant		$1,320,647	$1,021,795	$409,528	$118,643	$260,741	$1,427,548	$642,700	$941,654	$793,677	$908,804	$138,126	$51,370	$8,035,235
c. Retirements		($489,550)	($803,000)	($116,638)	($54,348)	($147,611)	($123,987)	($540,558)	($66,144)	($1,718,319)	($312,872)	($110,000)	($302,320)	($4,785,347)
d. Cost of Removal		($11)	$244	($11)	$0	($2,220)	($6,456)	$168	($1,443)	($1,193)	($4,928)	($716)	($364)	($16,930)
e. Salvage		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
f. Transfer Adjustments		$0	$0	$0	$0	$0	$0	$0	$0	$0	($137)	$0	$0	($137)
2. Plant In-Service/Depreciation Base	$23,554,364	$24,385,461	$24,604,256	$24,897,146	$24,961,441	$25,074,571	$26,378,132	$26,480,274	$27,355,785	$26,431,142	$27,027,074	$27,055,201	$26,804,252	
3. Less: Accumulated Depreciation	$9,129,103	$9,044,884	$8,656,220	$8,957,926	$9,324,910	$9,597,889	$9,902,063	$9,808,003	$10,194,893	$8,929,449	$9,062,826	$9,408,639	$9,560,628	
4. CWIP - Non Interest Bearing	$2,148,517	$2,000,250	$2,001,219	$2,039,336	$2,190,673	$2,217,454	$2,435,059	$2,573,779	$2,607,121	$3,057,081	$3,066,019	$3,091,484	$3,136,489	
5. Net Investment (Lines 2 - 3 + 4)	$16,573,779	$17,340,827	$17,949,256	$17,978,556	$17,827,204	$17,694,135	$18,911,128	$19,246,050	$19,768,013	$20,558,775	$21,030,268	$20,738,047	$20,380,114	
6. Average Net Investment		$16,957,303	$17,645,041	$17,963,906	$17,902,880	$17,760,669	$18,302,631	$19,078,589	$19,507,031	$20,163,394	$20,794,521	$20,884,157	$20,559,080	
7. Return on Average Net Investment														
a. Equity Component grossed up for taxes [b]		$100,715	$104,800	$106,693	$106,331	$105,486	$108,705	$113,314	$115,859	$119,757	$123,505	$124,038	$122,107	$1,351,310
b. Debt Component (Line 6 x debt rate) [c]		$21,922	$22,812	$23,224	$23,145	$22,961	$23,662	$24,665	$25,219	$26,067	$26,883	$26,999	$26,579	$294,137
8. Investment Expenses														
a. Depreciation [a]		$405,342	$414,091	$418,355	$421,332	$422,810	$434,616	$446,330	$454,478	$454,068	$451,314	$456,529	$454,673	$5,233,939
b. Amortization		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
c. Dismantlement		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
d. Other		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
9. Total System Recoverable Expenses (Lines 7 + 8)		$527,980	$541,702	$548,273	$550,808	$551,258	$566,983	$584,309	$595,555	$599,892	$601,702	$607,566	$603,358	$6,879,386

(a) The Equity Component is based on the approved ROE reflected in Form 9A and grossed up for taxes.

(b) The Debt Component for the period is based on the information reflected in Form 9A.

(c) Depreciation expenses is based on the "Cradle-to-Grave" method of accounting.

SCHEDULE CT-4

FLORIDA POWER & LIGHT COMPANY
COST RECOVERY CLAUSES
2023 FINAL TRUE UP FILING WACC @10.80%

FORM 9A

CAPITAL STRUCTURE AND COST RATES (a)

	Adjusted Retail	Ratio	Midpoint Cost Rates	Weighted Cost	Pre-Tax Weighted Cost
Long term debt	$19,579,354,887	31.8466%	4.4582%	1.4198%	1.4198%
Short term debt	$1,130,253,361	1.8384%	4.9373%	0.0908%	0.0908%
Preferred stock	$0	0.0000%	0.0000%	0.0000%	0.0000%
Customer Deposits	$488,768,978	0.7950%	2.1064%	0.0167%	0.0167%
Common Equity [b]	$29,785,998,857	48.4482%	10.8000%	5.2324%	7.0088%
Deferred Income Tax	$9,661,693,418	15.7151%	0.0000%	0.0000%	0.0000%
Investment Tax Credits					
Zero cost	$0	0.0000%	0.0000%	0.0000%	0.0000%
Weighted cost	$834,075,719	1.3567%	8.2847%	0.1124%	0.1424%
TOTAL	$61,480,145,221	100.0000%		6.8721%	8.6785%

CALCULATION OF THE WEIGHTED COST FOR CONVERTIBLE INVESTMENT TAX CREDITS (C-ITC) [c]

	Adjusted Retail	Ratio	Cost Rate	Weighted Cost	Pre-Tax Cost
Long term debt	$19,579,354,887	39.6621%	4.4582%	1.7682%	1.7682%
Preferred Stock	$0	0.0000%	0.0000%	0.0000%	0.0000%
Common Equity	$29,785,998,857	60.3379%	10.8000%	6.5165%	8.7288%
TOTAL	$49,365,353,744	100.0000%		8.28470%	10.4970%

RATIO

DEBT COMPONENTS	
Long term debt	1.4198%
Short term debt	0.0908%
Customer Deposits	0.0167%
Tax credits weighted	0.0240%
TOTAL DEBT	**1.5513%**

EQUITY COMPONENTS:	
PREFERRED STOCK	0.0000%
COMMON EQUITY	5.2324%
TAX CREDITS -WEIGHTED	0.0884%
TOTAL EQUITY	**5.3208%**
TOTAL	6.8721%
PRE-TAX EQUITY	7.1272%
PRE-TAX TOTAL	8.6785%

Note:
(a) Capital structure includes a deferred income tax proration adjustment consistent with FPSC Order No. PSC-2020-0165-PAA-EU, Docket No. 20200118-EU
(b) Pursuant to Order No. PSC-2022-0358-FOF-EI FPL
(c) This capital structure applies only to Convertible Investment Tax Credit (C-ITC)

SCHEDULE CT-5

Reconciliation and Explanation of

Differences between Filing and FPSC Audit

Report for Months: January – December 2023

The Audit has not been completed as of the date of this filing.

SCHEDULE CT-6

FPL DSM Program Descriptions

FPL's DSM programs are designed to reduce energy consumption and growth of coincident peak demand.

1. **Residential Home Energy Survey (HES)**
   This program educates customers on energy efficiency and encourages implementation of recommended practices and measures, even if these are not included in FPL's DSM programs. The HES is also used to identify potential candidates for other FPL DSM programs.

2. **Residential Ceiling Insulation**
   This program encourages customers to improve the home's thermal efficiency.

3. **Residential Load Management (On-Call)**
   This program allows FPL to turn off certain customer-selected appliances using FPL-installed equipment during periods of extreme demand, capacity shortages, system emergencies, or system frequency regulation.

4. **Residential Air Conditioning**
   This program encourages customers to install high-efficiency central air conditioning systems.

5. **Residential New Construction (BuildSmart®)**
   This program encourages builders and developers to design and construct new homes that achieve BuildSmart® certification and move towards ENERGY STAR® qualifications.

6. **Residential Low Income**
   This program assists low-income customers through FPL-conducted Energy Retrofits and state Weatherization Assistance Provider (WAP) agencies.

7. **Business On Call**
   This program allows FPL to turn off customers' direct expansion central air conditioning units using FPL-installed equipment during periods of extreme demand, capacity shortages or system emergencies.

8. **Cogeneration and Small Power Production**
   This program facilitates the interconnection and administration of contracts for co-generators and small power producers.

9. **Business Lighting**
   This program encourages customers to install high-efficiency lighting systems.

10. **Commercial/Industrial Load Control (CILC)**
    This program allows FPL to control customer loads of 200 kW or greater during periods of extreme demand, capacity shortages or system emergencies. It was closed to new participants as of December 31, 2000. It is available to existing participants who had entered into a CILC agreement as of March 19, 1996.

11. **Commercial/Industrial Demand Reduction (CDR)**
    This program allows FPL to control customer loads of 200 kW or greater during periods of extreme demand, capacity shortages or system emergencies.

SCHEDULE CT-6

FPL DSM Program & Pilot Descriptions (cont'd)

12. **Business Energy Evaluation (BEE)**
This program educates customers on energy efficiency and encourages implementation of recommended practices and measures, even if these are not included in FPL's DSM programs. The BEE is also used to identify potential candidates for other FPL DSM programs.

13. **Business Heating, Ventilating & AC (HVAC)**
This program encourages customers to install high-efficiency HVAC systems.

14. **Business Custom Incentive (BCI)**
This program encourages customers to install unique high-efficiency technologies not covered by other FPL DSM programs.

15. **Conservation Research & Development (CRD) Project**
This project consists of research studies designed to: identify new energy efficient technologies; evaluate and quantify their impacts on energy, demand, and customers; and where appropriate and cost-effective, incorporate an emerging technology into a DSM program.

16. **Common Expenses**
For administrative efficiency this includes all costs that are not specifically attributable to a particular program.

17. **Curtailable**
The Curtailable Load (CL) program provides qualifying customers capacity payments for electric load which could be curtailed during certain conditions as described in Rate Rider CL. The CL rider was available to customers taking service under former rate schedules LP, LPT, PX, or PXT and who also executed a Curtailable Load Service agreement (CL Service Agreement). Qualifying customers had to commit to a minimum of 4,000 KW of non-firm load. This program was closed as of January 1, 2022.

SCHEDULE CT-6

Florida Power & Light Company
Program Progress
January through December 2023

Pgm No	Program Title	Accomplishments 2023	Accomplishments Inception through December 2023	2023 Cost & Variance v. Actual/Estimate[1]
1	Residential Home Energy Survey	Participants = 87,050	Participants = 4,456,559	Total = $15,975,310 Variance= $2,427,397
2	Residential Ceiling Insulation	Participants = 2,952	Participants = 590,344	Total = $1,024,836 Variance= $231,148
3	Residential Load Management ("On Call")	Participants = 3,406	Participants = 652,942	Total = $37,460,713 Variance= $34,477
4	Residential Air Conditioning	Participants = 18,403	Participants = 2,051,376	Total = $3,696,653 Variance= ($262,242)
5	Residential New Construction (BuildSmart®)	Participants = 3,841	Participants = 67,820	Total = $420,021 Variance= ($10,002)
6	Residential Low-Income	Participants = 11,254	Participants = 51,429	Total = $3,140,574 Variance= $183,898
7	Business On Call	kW = 813	MW = 67	Total = $2,948,064 Variance= $2,460
8	Cogeneration & Small Power Production	Firm MW = 114 GWh Purchased = 1,047 Firm = 3; As Available = 12	MW Under Contract = 114 MW Committed = 114	Total = $166,366 Variance= $61,147
9	Business Lighting	kW = 6,380	kW = 325,352	Total = $608,186 Variance= $74,789
10	Commercial/Industrial Load Control	Closed to new participants	MW = 442	Total = $35,708,608 Variance= $659,436
11	Commercial/Industrial Demand Reduction	kW= 28,197	MW = 414	Total = $33,337,869 Variance= $51,117
12	Business Energy Evaluation	Participants = 5,108	Participants = 274,707	Total = $4,933,866 Variance= ($2,615,114)
13	Business Heating, Ventilating & AC	kW = 5,112	kW = 457,792	Total = $2,117,808 Variance= ($1,188,855)
14	Business Custom Incentive	kW = 0	kW = 54,866	Total = $0 Variance= ($9,033)
15	Conservation Research & Development	Not Applicable	Not Applicable	Total = $640,804 Variance= ($274,345)
16	Common Expenses	Not Applicable	Not Applicable	Total = $6,426,631 Variance= ($256,111)
17	Curtailable	Closed to new participants	Closed to new participants	Total = $84,995 Variance= ($2,528)
	Discontinued Program[(1)]			
18	Energy Select	Closed to new participants	Closed to new participants	Total = $5,990,678 Variance= $12,780

Notes: Variance where actuals less than Actual/Estimate shown with ( )
kW and MW reduction are at the generator
(1) Residual expenses in 2023

SCHEDULE CT-6

Customers that no longer participate on FPL's Commercial/Industrial Load Control (CILC) and Commercial/Industrial Demand Reduction (CDR) Rates (January through December 2023)

Customer Name	Effective Date	Prior Rate	Firm Rate	Remarks
Customer No. 1	01/27/2023	CILC	Not Applicable	Replaced with equivalent load
Customer No. 2	02/09/2023	CILC	Not Applicable	Replaced with equivalent load
Customer No. 3	05/09/2023	CILC	Not Applicable	Final Billed
Customer No. 4	08/08/2023	CILC	Not Applicable	Replaced with equivalent load
Customer No. 5	09/14/2023	CILC	Not Applicable	Final Billed
Customer No. 6	10/02/2023	CILC	Not Applicable	Replaced with equivalent load
Customer No. 7	12/08/2023	CILC	Not Applicable	Replaced with equivalent load
Customer No. 8	04/06/2023	CDR	Not Applicable	Replaced with equivalent load
Customer No. 9	07/24/2023	CDR	Not Applicable	Final Billed
Customer No. 10	08/25/2023	CDR	Not Applicable	Final Billed
Customer No. 11	10/09/2023	CDR	Not Applicable	Replaced with equivalent load
Customer No. 12	10/20/2023	CDR	Not Applicable	Replaced with equivalent load
Customer No. 13	11/21/2023	CDR	Not Applicable	Replaced with equivalent load

SCHEDULE CT-6

CONSERVATION RESEARCH & DEVELOPMENT ("CRD") PROGRAM

FPL Conservation Research & Development ("CRD")

CRD is an umbrella program under which FPL researches a wide variety of new technologies and market strategies to evaluate their potential for reductions in peak demand and energy consumption as well as customer bill savings. Favorable research results of these new technologies can lead to incorporation into FPL's DSM programs. Examples of technologies that have been included are Energy Recovery Ventilators; Demand Control Ventilation; and Residential Air Conditioning Duct Plenum Seal.

FPL focused on three major research projects in 2023, including a Smart Panel Pilot to test new end-use control technology for residential customers; a retro-commissioning project to unmask conservation measures otherwise hidden by larger load profiles in a commercial building; and a low-income project to install and test customer acceptance and usage patterns for various energy efficient end-use technologies.

As part of a smart panel pilot approved in Docket 20210015-EI, FPL is installing smart panels in customer homes. To date, 100 smart panels have been installed in customer homes. This pilot is intended to evaluate the capabilities of smart panels to enable greater customer energy efficiency through real-time visibility and control of large appliances, better optimization of on-site distributed energy resources (DERs), and flexible load management on the FPL grid. FPL also enhanced an internal software monitoring and control platform to utilize throughout the pilot for evaluating the capabilities of the panels for demand response.

FPL also continued a retro-commissioning study in the Northwest portion of the service territory. Retro-commissioning is the process of improving how building equipment and systems function together in order to improve building energy efficiency. A large, multi-building church was selected to take part in the research. A local engineering firm specializing in retro-commissioning was selected to conduct the study. A preliminary site assessment has been conducted, and a baseline energy profile is presently being developed. The church campus has multiple building types and uses that potentially may facilitate the application of the results to other buildings in the region. The church is also a willing participant in support of educational activities that may be created from this work to build science programs in the Panhandle. This cooperation also compliments FPL initiatives to expand energy collaborations in the community.

In 2023, FPL also initiated a deep retrofit pilot for income qualified customers in the Pensacola area of FPL's service area. A deep retrofit is an extensive renovation to a building in order to improve energy efficiency. The purpose of this pilot is to understand the impact deep retrofit measures have on customer energy use. 25 customers were selected to receive energy efficient appliances, capital improvements, and other energy conservation measures at no additional cost to the customer. Installation of all three measures was completed in the summer of 2023. The energy use of this group will be tracked for 12 months. The data will be weather normalized to measure the impact on customers' energy usage and bills and to evaluate which mix of measures have the most impact.

Measures included in the evaluation are:

- Heat Pump AC systems
- Heat Pump Water Heaters
- Duct Sealing and Repair
- Ceiling insulation to R-38 Value
- Smart Thermostat

APPENDIX A

Residential

$254.75 annual residential customer savings based on the following:

- Replace four 60-Watt standard light bulbs that you use four hours a day with LED bulbs
    - Save $29 a year
- Replace one 60-Watt standard light bulb that you leave on 12 hours a night for security with an LED bulb
    - Save $22 a year
- Replace old showerheads with water-efficient models to cut your hot water usage
    - Save $80 a year in a home with two occupants
- Reduce your water heater temperature by 20 degrees – lower the temperature from 140 degrees to 120 degrees
    - Save about $10 a year
- Turn the fan off when leaving a room – savings based on stopping one ceiling fan from running all the time
    - Save about $85 a year
- Use cold water instead of hot water when using your washing machine
    - Save $30 a year
- Use a power strip to turn off your desktop computer and accessories when not in use
    - Save $24 a year
- Install a smart thermostat
    - Save $50 a year on your cooling costs
- Enroll in our **On Call® Program**
    - Save up to $91.75 a year

Please note: Home comparisons made within the FPL Energy Analyzer are based upon size, type and area of home. Comparisons are not based upon; a home's square footage, age, number of people living in the home, or neighboring homes.

Business

$500 annual business customer savings based on the following:

- $397 per year, attributed to an average business customer with a 10 ton A/C, replacing a 10 EER with a 12 EER unit, with the unit operating 3,869 hours per year
- $140 per year, attributed to an average business customer enrolled in the Business On Call® program with a 10 ton A/C unit at $2 per ton per month savings for seven months (April - October)

BRAND	FPL	DATE	
CONVERSATION	ECCR – Markets	BRAND LEAD	

:15 TV - RCS

Want to save more than $30 a month on your energy bill?
The free FPL Energy Manager has easy-to-follow energy saving tips for your whole family.
So, start saving together now. Go to FPL.com/TakeControl.

:30 TV - RCS

Your family can get a lot more done when you work together.
Like making dinner together…
Doing laundry together…
And even saving together–with the FPL Energy Manager.
It uses real data from your smart meter to tell you where your energy is going...
then gives you easy-to-follow tips that the whole family can help with and save you more than $30 a month.
So, don't miss out. Check out your free FPL Energy Manager at FPL.com/TakeControl and start saving, together.

:15 TV – BEM V1

I'm a visual artist.
Air conditioning is a big part of my cost to keep the place going.
One of the things I learned with the FPL Business Energy Manager was to change my filters more often. And I learned a bunch of other tips on how to save on cooling.
Every penny counts. Now more than ever.

:30 TV – BEM

Ever since I was younger, I always wanted to be behind the chair.
Cooking has always been therapeutic for me.
So, this is the first time I've ever done anything that its 100% mine.
It's very important to count every penny.
The FPL Business Energy Business Manager has helped us essentially because it really helped us identify different ways that we can save money.
We swapped out the normal bulbs with LED bulbs. So, you can only imagine, our bill is way lower.
The fact that FPL even came out something to help small businesses, that's definitely helped a lot.

:15 TV – BEM V2

It definitely takes a lot of energy to do what we do.
And that's to make people feel good.

The fact that FPL even came out with Business Energy Manager to help small businesses, that's definitely helped a lot.
We swapped out the normal bulbs with LED bulbs. So, you can only imagine, our bill is way lower.

BRAND	FPL	DATE	
CONVERSATION	RCS Save Together	BRAND LEAD	

RCS :30 RADIO

VO: Your family can get a lot more done when you work together.
Like making dinner together…
Doing laundry together…
And even *saving* together–with the FPL Energy Manager.
It uses real data from your smart meter to tell you where your energy is going... then gives you easy-to-follow tips that the whole family can help with, and save you more than $30 a month.
So don't miss out. Check out your free FPL Energy Manager at FPL.com/TakeControl and start saving, together.

RCS :15 RADIO

VO: Your family can get a lot done when you work together—and save more than $30 a month on your energy bill with the FPL Energy Manager.
Find easy ways to save together.
Go to FPL.com/TakeControl.

BRAND	FPL
CONVERSATION	Save Together SPA Scripts

RCS :30 TV / RADIO – ANCHOR SPOT

VO: Cuando trabajamos juntos logramos más.

Como preparar la cena en familia….

Doblar la ropa juntos…

Y hasta *ahorrar* juntos— con el Energy Manager de FPL

Una herraminenta que usa datos de tu contador inteligente

y ofrece un reporte detallado sobre tu consumo.

Además, te da consejos que te ayudan a ahorrar

más de $30 al mes.

Aprende más en FPL.com/TomaControl.

RCS :15 TV – SPOT

VO: ¿Quieres ahorrar más de $30 al mes en tu cuenta de energía?
Con el Energy Manager de FPL recibes consejos
para que tú y toda tu familia aprendan a ahorrar energía.
Comienza a ahorrar hoy. Visita FPL.com/TomaControl.

BRAND	FPL	DATE	
CONVERSATION	ECCR – Legacy Markets	BRAND LEAD	

:15 TV – BEM V1
I'm a visual artist.
Air conditioning is a big part of my cost to keep the place going.
One of the things I learned with the FPL Business Energy Manager was to change my filters more often. And I learned a bunch of other tips on how to save on cooling.
Every penny counts. Now more than ever.

:15 TV – BEM V2
It definitely takes a lot of energy to do what we do.
And that's to make people feel good.
The fact that FPL even came out with Business Energy Manager to help small businesses, that's definitely helped a lot.
We swapped out the normal bulbs with LED bulbs. So, you can only imagine, our bill is way lower.

:30 TV – BEM
Ever since I was younger, I always wanted to be behind the chair.
Cooking has always been therapeutic for me.
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We swapped out the normal bulbs with LED bulbs. So, you can only imagine, our bill is way lower.
The fact that FPL even came out something to help small businesses, that's definitely helped a lot.

:15 TV - RCS
Want to save more than $30 a month on your energy bill?
The free FPL Energy Manager has easy-to-follow energy saving tips
for your whole family.
So, start saving together now. Go to FPL.com/TakeControl.

:30 TV - RCS
Your family can get a lot more done when you work together.
Like making dinner together…
Doing laundry together…
And even saving together–with the FPL Energy Manager.
It uses real data from your smart meter to tell you where your energy is going...

then gives you easy-to-follow tips that the whole family can help with and save you more than $30 a month.
So, don’t miss out. Check out your free FPL Energy Manager at FPL.com/TakeControl and start saving, together.

BRAND	FPL
CONVERSATION	Save Together SPA Scripts
DATE	

RCS :30 TV / RADIO – ANCHOR SPOT

VO: Cuando trabajamos juntos logramos más.

Como preparar la cena en familia….

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Y hasta *ahorrar* juntos— con el Energy Manager de FPL

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y ofrece un reporte detallado sobre tu consumo.

Además, te da consejos que te ayudan a ahorrar

más de $30 al mes.

Aprende más en FPL.com/TomaControl.

RCS :15 TV / RADIO – ANCHOR SPOT

VO: Cuando trabajamos juntos logramos más.
Como ahorrar más de $30 al mes
con los consejos del Energy Manager de FPL.
Comienza a ahorrar hoy. Visita FPL.com/TomaControl.

RCS :15 TV – OPTION 2 SPOT

VO: ¿Quieres ahorrar más de $30 al mes en tu cuenta de energía?
Con el Energy Manager de FPL recibes consejos
para que tú y toda tu familia aprendan a ahorrar energía.
Comienza a ahorrar hoy. Visita FPL.com/TomaControl.

RCS :10 RADIO

VO: Ahorra más de $30 al mes en tu cuenta de energía
con el Energy Manager de FPL.
Visita FPL.com/TomaControl

RCS :05 RADIO

VO: Ahorra más de $30 al mes.
Visita FPL.com/TomaControl

BRAND	FPL	DATE	
CONVERSATION	RCS	BRAND LEAD	

RCS :30 RADIO

Customer: I'm Jennifer and I live in the Panhandle of Florida.

As a teacher, I truly believe that knowledge is power

I think it's great that FPL has the free Energy Tool. You can actually teach yourself about your energy usage.

And with the tool, I learned easy ways to spend less, so I can save a little more for my future.

VO: Learn how to save energy and money with the free Energy Manager. Visit FPL.com/EnergyManager for more information.

RCS :15 RADIO

Customer: I'm Jennifer and I live in the Panhandle of Florida.

I think it's great that FPL has the free Energy Tool. You can actually teach yourself about your energy usage.

VO (or Customer): Visit FPL.com/EnergyManager for more information

BRAND	FPL
CONVERSATION	Energy Savings Segment
DATE	

TV / RADIO – ANCHOR SPOT

NEWS ANCHOR: The temps are climbing higher, and that means our electric bills will be getting higher as well. Keeping our homes cool can be a pricey problem here on the Suncoast, so Rafael Pena from Florida Power and Light is here to bring us some ways to keep our costs down, as temps go up.

Great to see you.

RAFAEL: Morning

NEWS ANCHOR: Tell us what is the number one driver of high energy bills?

RAFAEL: Well, your #1 driver is your air conditioning unit. The time it takes to cool down your home based on when you set the thermostat, the condition your home, which usually means how well you're insulated, how that A/C is performing in the weather outside. That's the big 50 to 60% of your bill in summer.

NEWS ANCHOR: I believe it and we know that it's only going to be going up of course as the summer heat builds. What can I do to help keep those costs down without sacrificing the comfort and the cool in my home?

RAFAEL: One of the major things you can do is A/C thermostat. If you have a programmable or a Wi-Fi control thermostat, what you can do is. You can set, when you're home, set it at 78 degrees and 82 to 85 when you're away from home. Now if you have a programable or Wi-Fi thermostat, what you can do is maybe an hour, hour and a half before you come home, you can actually drop down the temperature and you still have savings during the hottest part of the day and you come home to a comfortable home.

NEWS ANCHOR: And you know the money that we would spend upgrading the thermostat I'm sure is going to be well worth it in the cost. Because, you just said 82 to 85 when we're not home. OK, who does that? We should all do that. I don't do that. I'm gone all day long, and I'm sure my house is at 75.

RAFAEL: You don't want to heat the house- You don't want to cool the house when there's no weather and enjoy it.

NEWS ANCHOR: Right, exactly, and especially often during the heat of the day. So big take away there is to consider the smart thermostat. FPL is doing something for customers as well with IRA tax credits. Can you explain that?

RAFAEL: Right. The tax credits for anything, any energy, energy efficiency done in the home, you get a tax credit. So, the way you can do that is, the AC unit if it's over 10 years old and it's not cooling properly, you've

had many repairs that's not working well, you should get a brand-new unit with the tax credit. The IRA tax credit you can get anywhere from $600 to $2000 to help you with a new unit.

NEWS ANCHOR: OK, so if I'm going to do things to upgrade the efficiency of my home, the take away there is to keep track of that and then I'll be able to file that back for IRA tax credits. All right, smart thermostats, upgrading appliances, remembering not to cool it when we're not there. These are all things that are important to all of us, right? We know we're heading into an expensive time of year. If customers are trying to learn more tips and tricks, where can they go?

RAFAEL: Well, they can go to FPL/programs, but you can also, what you can do is, FPL has an A/C rebate program for $150 also. So, you can use the IRA and the FPL rebate, it's $150 for anything over 16 SEER or more. SEER is like the Seasonal Efficiency Energy Rating. It's like the miles per gallon in your car. The higher the rating, the more efficient you have.

NEWS ANCHOR: OK, so when we're looking at new things, look at SEER ratings, understand how they would impact our home and understand too that the money that we put out front can get help with some rebates and tax credits on the back.

RAFAEL: Absolutely: FPL rebates and the IRA tax.

VO: And for more tips on how you can save money on your electric bill, head over to FPL.com/TakeControl

BRAND	FPL	DATE	
CONVERSATION	ECCR	BRAND LEAD	

TV :15
Everyone is feeling the strain of having to pinch pennies.
So, I appreciate that FPL, they are always teaching how power works and how you can save money
I can actually have ownership and knowledge over my power bill.

TV :15 - Trent
With FPL I can use my tablet to look at my business profile and it will tell me how much power I'm using and where I can stand to save.
I am not a techy guy.
So, it's great to have something so simple that I can understand and manage.

TV :15 - Venus

I went on the FPL website and played with it.
It showed me how much energy each unit was using.
You know, just little things make a difference
It just gives you great tips, you know, things you would not normally think of.

TV :30 Trent

A lot of my inspiration for what I do here is for the community. I want to see people grow.
As a coffee shop we definitely want our customers to feel comfortable, while they sit and work during their days, so having it cool during the summer and warm during the winter is really important.
With FPL I can use my tablet to look at my business profile and it will tell me how much power I'm using and where I can stand to save.
It is great that there is a free tool from FPL that helps businesses like mine save energy and money.

TV :30

Things are more expensive now for my wife and I. So, we have decided that we would make changes in terms of our expenditures.

I live downstairs with one thermostat, and she lives upstairs with two thermostats, but they all cost one price.
So, I appreciate that FPL, they are always teaching how power works and how you can save money.
You can look at your bill based on cooling, heating, and it will break it down to the dollar value.
My wife and I have been able to see a change in our expenditure on energy.
I can actually have ownership and knowledge over my power bill.

TV :60

I have been an artist for 20 years.
Things are more expensive now for my wife and I. So, we have decided that we would make changes in terms of our expenditures.
As a business consultant, I love to save money when I can and be in control of it as much as possible.
I live downstairs with one thermostat, and she lives upstairs with two thermostats, but they all cost one price.
Everyone is feeling the strain of having to pinch pennies.
So, I appreciate that FPL, they are always teaching me how power works and how you can save money.
You can look at your bill based on cooling, heating, you can come in here and it will break it down to the dollar value.
It helps me forecast what my energy bill is going to be.
When I see that I can start to make some adjustments.
My wife and I have been able to change in our expenditure on energy.
You can actually go on and you can see this is the little thing that might going on in your house that you actually do have control over.
I can actually have ownership and knowledge over my power bill.

TV :60

Flowers have been my passion since I was 16 years old. I love the fact that my business makes people feel happy.
I just wanna be somebody that influences you to do something better with your day.
So, the people that come and train with me are looking for an outside the box form of exercise.
I definitely have a history and a passion with food. I absolutely love baking a cooking.
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BRAND	FPL	DATE	
CONVERSATION	NWFL Cold Weather Campaign		

TV/Radio :15 V1 | A/C REBATE
VO: Save this winter with FPL rebates! Get $150 back when you purchase a new heating and cooling system – plus, qualify for even more savings of up to $2,000 of tax credits. Visit FPL.com/HVACSavings.

TV/Radio :15 V2 | A/C REBATE
VO: Want to get a $150 instant rebate this winter? Now you can when you purchase a new heating and cooling system for your home – plus, qualify for even more savings of up to $2,000 of tax credits. Visit FPL.com/HVACSavings.

BRAND	FPL	DATE	
CONVERSATION	ECCR	BRAND LEAD	

SPA :15

Todos estamos sintiendo el alza en los precios.

Aprecio lo que FPL está haciendo.

Siempre enseñándome cómo funciona mi energía y cómo ahorrar dinero para así tener más control sobre mi cuenta de energía.

SPA :30

Mi esposo y yo no siempre estamos de acuerdo en que luces deben estar encendidas o apagadas. Asi que yo siempre estoy buscando alternativas para conservar energía.

Me gusta que FPL me explica como uso la energía del hogar y me enseña como puedo ahorrar.

Me encantó el Energy Manager de FPL. Me dio muuuchas ideas de cómo ser más eficiente. Así le sacamos el jugo a cada centavo.

Siento que tengo el conocimiento para tomar control de mi cuenta

SPA :60

Llevo veinte años trabajando como artista. Hoy día, las cosas están más costosas para mi esposa y yo. Por eso hemos decidido hacer cambios en nuestros gastos.

Como consultora de negocios, me gusta poder ahorrar dinero y estar en control lo más posible.

Yo vivo abajo con un termostato, y ella vive arriba con dos. Pero ambos tienen un solo costo.

Todos estamos sintiendo el alza en los precios.

Aprecio lo que FPL está haciendo. Siempre enseñándome cómo funciona mi energía y cómo ahorrar dinero.

Puedes mirar tu factura basado en el consumo de aire acondicionado o calefacción. Y ver un resumen detallado.

Ellos me ayudan a proyectar mi cuenta de energía. Y cuando veo eso, puedo comenzar a hacer ajustes.

Mi esposa y yo hemos visto el cambio en nuestros gastos de energía.

Puedes ir a la página y ver…

…"esto es lo que puede estar causando un mayor consumo en tu casa" y ajustarlo. Con esta información tengo más control sobre mi cuenta de energía.

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BRAND	FPL
CONVERSATION	Energy Savings Segment
DATE	

TV / RADIO – ANCHOR SPOT

NEWS ANCHOR: If you want to learn how to save money on your electric bill, listen up. Joining me is Shelly Ragsdale with Florida of Power and Light, and can you tell me all about FPL's House of Savings Tool, Shelly?

SHELLY: Sure. Thanks for having me today. So our House of Savings is really exciting. Summer's right around the corner, and that means higher temperatures, and that probably means you're going to be using more energy in your home. So we've created the House of Savings, which is a really cool, fun, interactive tool that uses augmented reality to create a virtual home. And once you're in this home, you can go through the different rooms and answer energy -related questions and learn how to save money and energy. It's great for families. You can all learn about this together and interact with it, and kids love House of Savings.

NEWS ANCHOR: And how and where do FPL customers participate in using this cool three - dimensional tool?

SHELLY: Yeah, so what you do is you need a phone or a tablet with a camera, and you go to our website, FPL.com/WaysToSsave, and you'll look for a QR code, and so you'll take your camera and scan that QR code, and the House of Savings will pop up on your screen. And so once you're inside, as I said, you walk around, move your phone around the rooms, and you'll answer energy - related questions and learn energy information

NEWS ANCHOR: And what are some of the things they're learning with that tool?

SHELLY: Yeah, so as you walk around, you'll look for highlighted items and appliances. You'll tap the screen on those items, and it will have energy efficiency information and questions that you'll answer, and you'll learn some small tips and tricks that you can do at home to save energy on your bill.

NEWS ANCHOR: Well, thank you for coming on, and I think we all want to learn how to save money on our energy bills, especially with summer coming up, and we're going to have all that information linked on our website, WHJE.com, so you can learn how to save.

BRAND	FPL
CONVERSATION	Energy Savings Segment
DATE	

TV / RADIO – ANCHOR SPOT

NEWS ANCHOR: The weather is heating up across South Florida, and with that rising energy bills. Here to give us some cooling tips is Rolando Marrero, energy expert at FPL.

ROLANDO: Thank you.

NEWS ANCHOR: Let's talk about what is the biggest price point on that energy bill come the end of the month.

ROLANDO: Due to our weather in South Florida, heating and cooling, the majority will be cooling will be the biggest factor you have.

NEWS ANCHOR: And what can people do to save money?

ROLANDO: There's several things you could do. You got to find out where your comfort zone is at when you're cooling your home. We recommend a certain temperature, which is 78 degrees, which is the most cost effective for to run any type of unit for cooling your home. And you also have to know why you need to keep your house cool at a certain degree for yourself. Other people will say, I need to keep it at a certain temperature because I like to snuggle up. Is that really cost effective? No, it's not. So you got to try to find your comfort zone and end time.

NEWS ANCHOR: How can FPL customers take advantage of IRA tax credits to upgrade their home's cooling systems?

ROLANDO: Yes. Right now there's a new program, the IRA, and basically it started in 2022 and it's up to 2032. And if you replace your air conditioner, you could actually use that as a tax credit for next year's taxes. Maximum is 30 % or $600.

NEWS ANCHOR: Tell us about how FPL customers can combine tax credits and rebates.

ROLANDO: Yes. A combination is what we would expect our customers to do and you do get $150 credit or rebate from FPL when you use one of our independent participating air conditioning contractors. So whatever the cost of the unit might be for replacement, they'll deduct $150 and you pay the difference and they would actually bill FPL for the rebate amount.

NEWS ANCHOR: Where can customers learn more?

ROLANDO: FPL.com /Programs

NEWS ANCHOR: That's FPL.com/Programs

BRAND	FPL
CONVERSATION	Energy Savings Segment
DATE	

TV / RADIO – ANCHOR SPOT

NEWS ANCHOR: School will be out for the summer in just a few weeks, and that means it's vacation season for many Suncoast families. But when we hit the road, we don't want to get hit with a big electric bill while we are gone. Rafael Pena from Florida Power and Light is here to help us make good money moves during summer travel season.

Great to see you. All right, a lot of us whether we're taking trips or just maybe not using all of our home all of the time, end up with vacant rooms. What can we do to not spend money when we're not in our spaces?

RAFAEL: Well, your biggest consumption of electricity is the air conditioner. So when you're not there, you want to raise your thermostat 82 to 85 degrees when you're away. There's no sense of cooling home when you're not there. The second thing is you want to take blinds. You know, you want to keep some of that sunlight radiant heat out.

NEWS ANCHOR: Okay

RAFAEL: Okay. Another thing is you can shut off your water heater. There's no sense of heating water while you're away. Okay.

NEWS ANCHOR: But am I using water if I'm not away?

RAFAEL: It still kicks on and kicks off. These things are air conditioned hot water. You work off a thermostat, so they're affected by temperatures. So even though you're not using hot water during the day, it loses the heat and it's cast a kick back on to maintain that temperature.

NEWS ANCHOR: So essentially we are paying to turn water hot for the sake of just having it sit there.

RAFAEL: Correct.

NEWS ANCHOR: Ah, that's some pretty good information

RAFAEL: As far as the cool and you can get a programmable thermostat or a Wi -Fi thermostat so you can just raise it while you're away and maybe before you come home, you can drop it down and then you'll still have comfort and savings also

NEWS ANCHOR: . And I certainly understand that for bigger trips, but what about even daily things? Like, do you recommend having a thermostat go up to 82 to 85 during the day?

RAFAEL: Absolutely.

NEWS ANCHOR: So I'm not going to spend more electricity recooling it. How quickly does it cool?

RAFAEL: It depends, obviously, on the four factors; condition of your home, how your AC is cooling, where you set it at, and the weather outside. But still, even if it's just a manual thermostat which you don't have a programmable one, when you get home, yes, it's going to be uncomfortable, but during that seven, eight hours while you're away, it's working harder for who, no one. Those two, three hours that it's going to take to cool down your home, you're still saving. Okay, so that's why we kind of recommend a programmable thermostat or a Wi -Fi thermostat. That way you will have comfort when you come home.

NEWS ANCHOR: Alright, and it's certainly worth the effort there to put in that extra time. What about our pool pumps? Many Florida homeowners have pools. Can we save any money cycling that and how how should we do it so that we don't hurt the pool?

RAFAEL: Absolutely so the people don't believe that the pool pump draws a lot. That's your third largest consumption of electricity other than the air conditioner in the hot water here so we recommend in summer, four hours on the timer and six in summer okay so that's just enough to circulate and maintain it if it's possible to get a variable speed pool pump which is more efficient you can actually rev the revolutions down and run it lower for what it costs per hour

NEWS ANCHOR: Okay so even as long as it's running in some way that will do enough cycling. Okay. And that sounds like another reason where if we do invest in a newer pool pump then we'll have more options .

RAFAEL: And not to throw the pool guys underneath the bus but sometimes they will put it eight ten or twelve hours. The more it circulates the less they have to do but the higher your electrical

NEWS ANCHOR: okay

RAFAEL: It’s always it's good to ask them what they're doing if you're not a hands -on at the home.

NEWS ANCHOR: Okay yep good point at checking our appliances, definitely key, for keeping our costs down and important remember

VO: For more tips on how you can save money on your electric bill, head over to FPL.com/TakeControl

AUDIO	VIDEO
Fade up light, whimsical, cheerful music. This is a commercial to ask you to unuse.	**OPEN ON A LIGHT SWITCH. A FINGER FLIPS IT OFF. SCREEN IMMEDIATELY GOES BLACK.** SUPER: UNUSE?
Yes, you heard that right, Florida. Unuse your energy.	SUPER: DON'T USE IT.
Of course, we have no problem when you use it.	SUPER: UNLESS YOU NEED IT.
But when you don't need it, don't use it. Simple.	SUPER: NOTHING MORE. NOTHING LESS.
Floridians now have so many unexpected ways to save at FPL.com/Unuse	SUPER: FPL.COM/UNUSE
Take the FPL Energy Manager, for example. You can monitor, calculate, and estimate your energy use.	SUPER: MANAGE YOUR ENERGY.
How serious are we about unuse?	SUPER: UNUSE.
Even this commercial uses less energy	SUPER: BLACK SCREENS USE 25% LESS ENERGY. CUT TO LOGO REVERSED IN WHITE. FPL.COM/UNUSE

BRAND	FPL	DATE	
CONVERSATION	ECCR	BRAND LEAD	

RADIO :15

I'm Jennifer and I'm an FPL customer.
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Find more ways to save energy and money at FPL.com/WaysToSave

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RADIO COPY

:30

Ahorrar energía y dinero
…con el Energy Manager de FPL.

Descubre nuevas formas de ahorrar
con esta herramienta gratis
que usa datos de tu contador inteligente
y ofrece un reporte detallado
sobre tu consumo de energía.

Y además, te da consejos fáciles y útiles para ayudarte a ahorrar.
Toma control de tu consumo de energía
con el Energy Manager gratis de FPL.

Aprende cómo ahorrar energía y dinero en FPL.com/AhorraMas.

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BRAND	FPL
CONVERSATION	Energy Savings Segment
DATE	

TV / RADIO – ANCHOR SPOT

NEWS ANCHOR: As Florida continues to experience record heat, FPL is helping customers save money by managing their energy use. Joining us is Bianca Soriano from FPL. Bianca, what is the number one driver of high energy bills?

BIANCA: Your air conditioner. The hotter it is outside, the harder it needs to work to keep your home cool.

NEWS ANCHOR: Are there ways we can avoid our AC working overtime?

BIANCA: Ceiling fans help cool you more efficiently. Also, for every degree, your thermostat is above 74 degrees. You save 3% on monthly cooling costs.

NEWS ANCHOR: Tell us about the FPL House of Savings and the Energy Manager.

BIANCA: - House of Savings is an interactive tool. Use your phone to navigate a 3D home, then take a quick quiz and learn to save $30 on your monthly energy bill. The free energy manager visualizes when and how your energy is being used.

NEWS ANCHOR: - How can we learn more?

BIANCA: Visit FPL.com/WaysToSave today. –

VO: CBS ION Energy is sponsored by FPL.

BRAND	FPL	DATE	
CONVERSATION	ECCR	BRAND LEAD	

TV :15 - Trent

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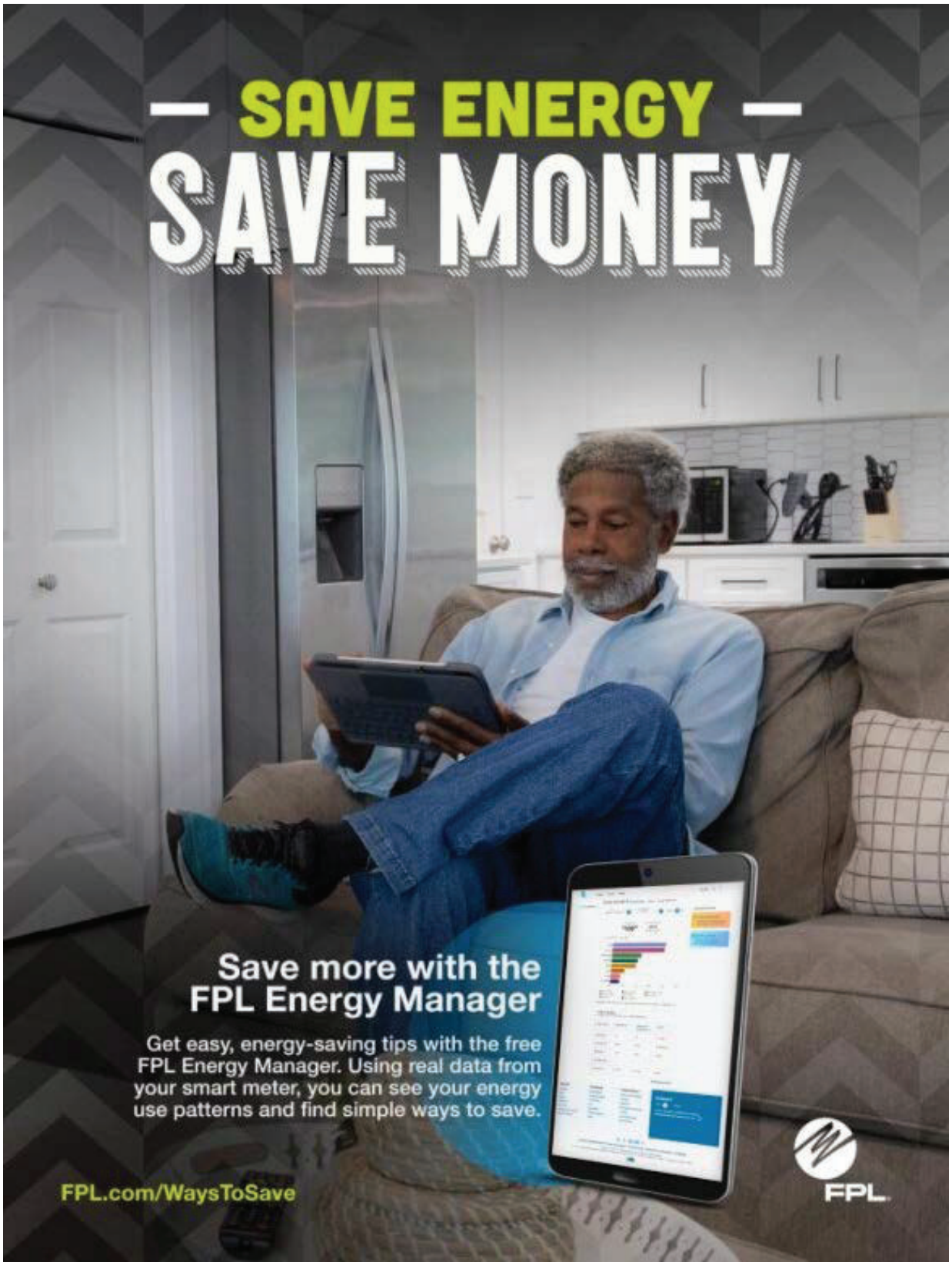
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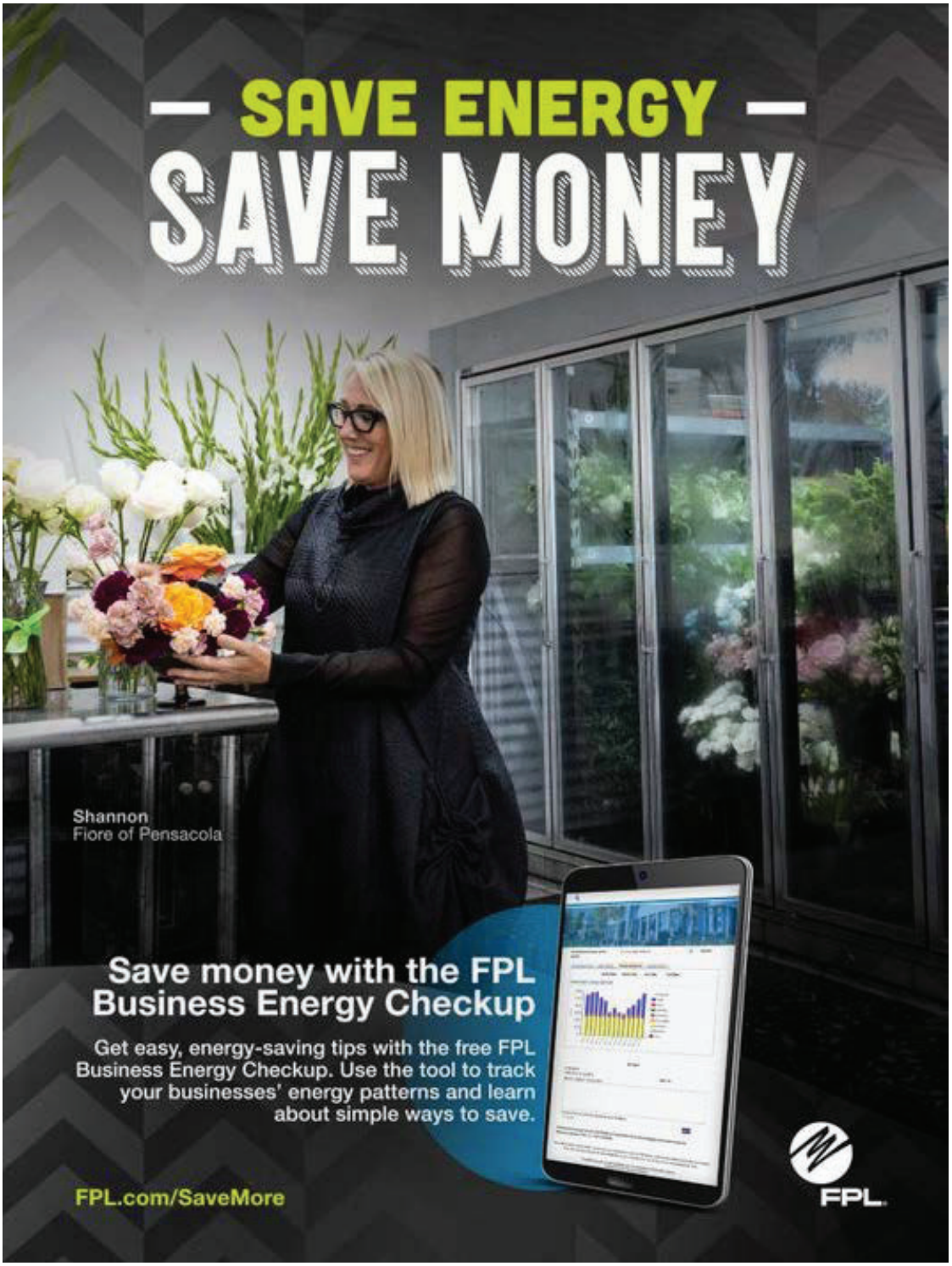
TV :60

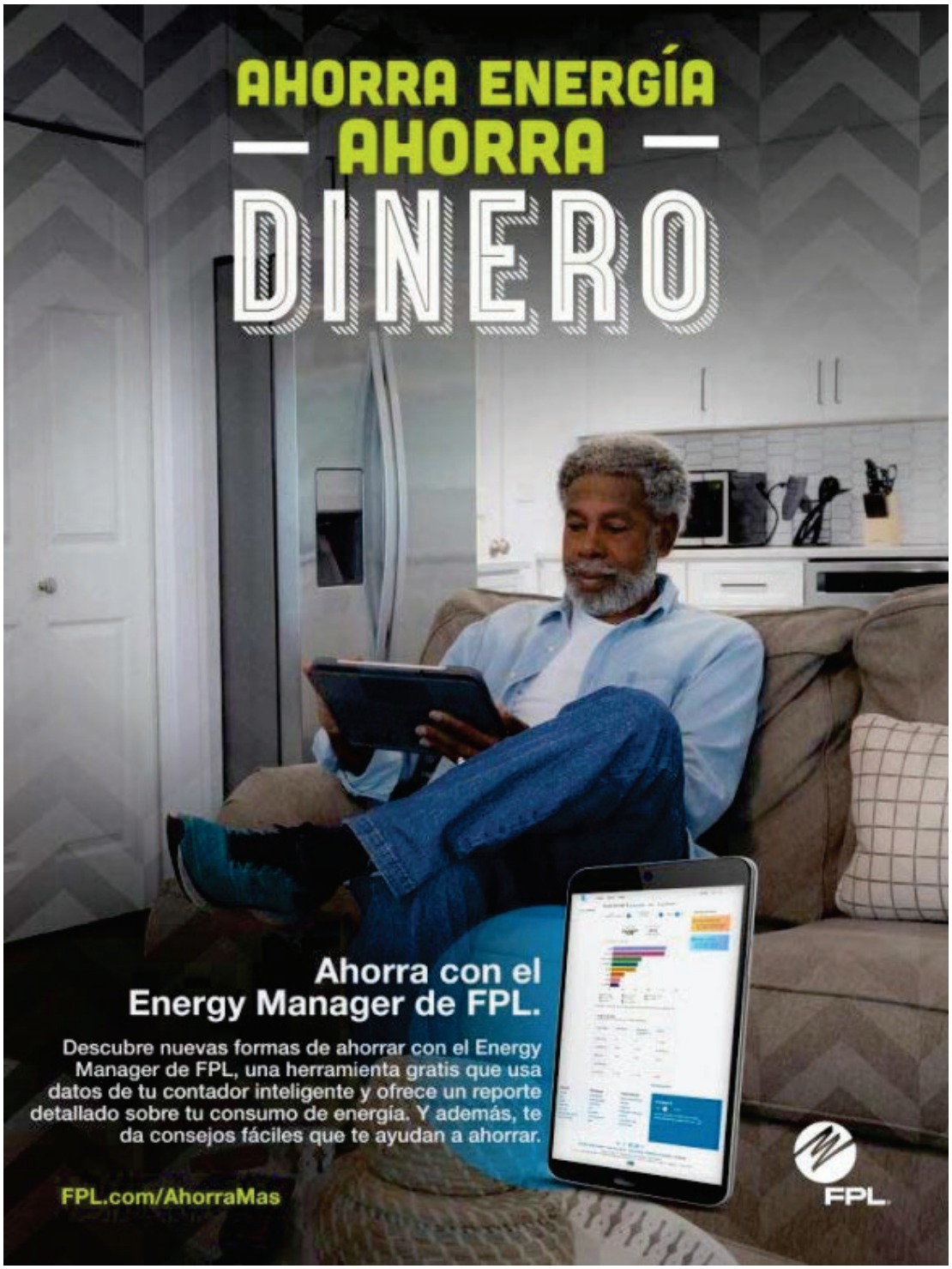
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SAVE MORE THAN $30 A MONTH
FPL
Save energy and money with the FPL Energy Manager
The free FPL Energy Manager helps find easy ways to save. Using real data from your smart meter, you can see exactly where your energy is going and get tips on how to lower your bill.
FPL.com/TakeControl

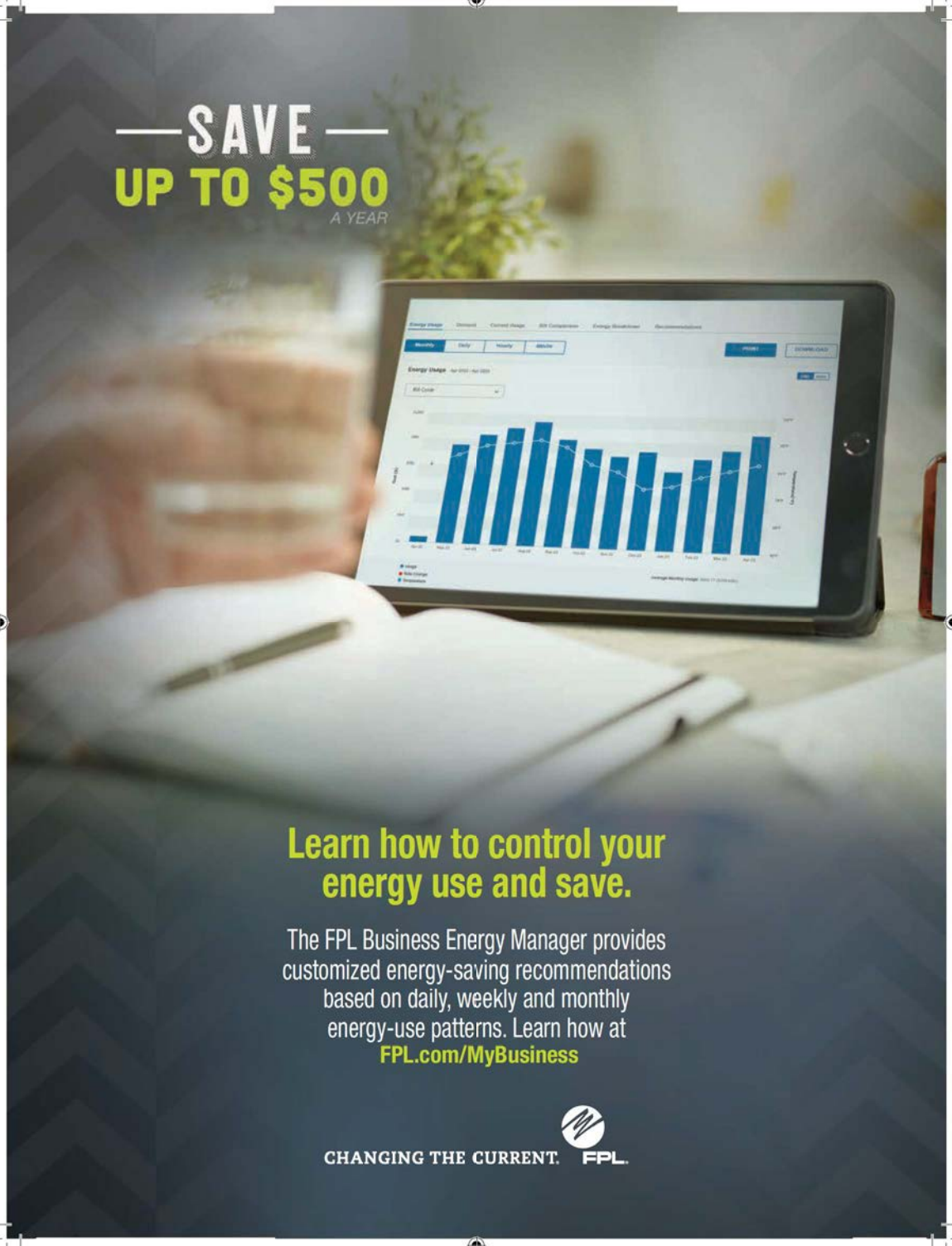

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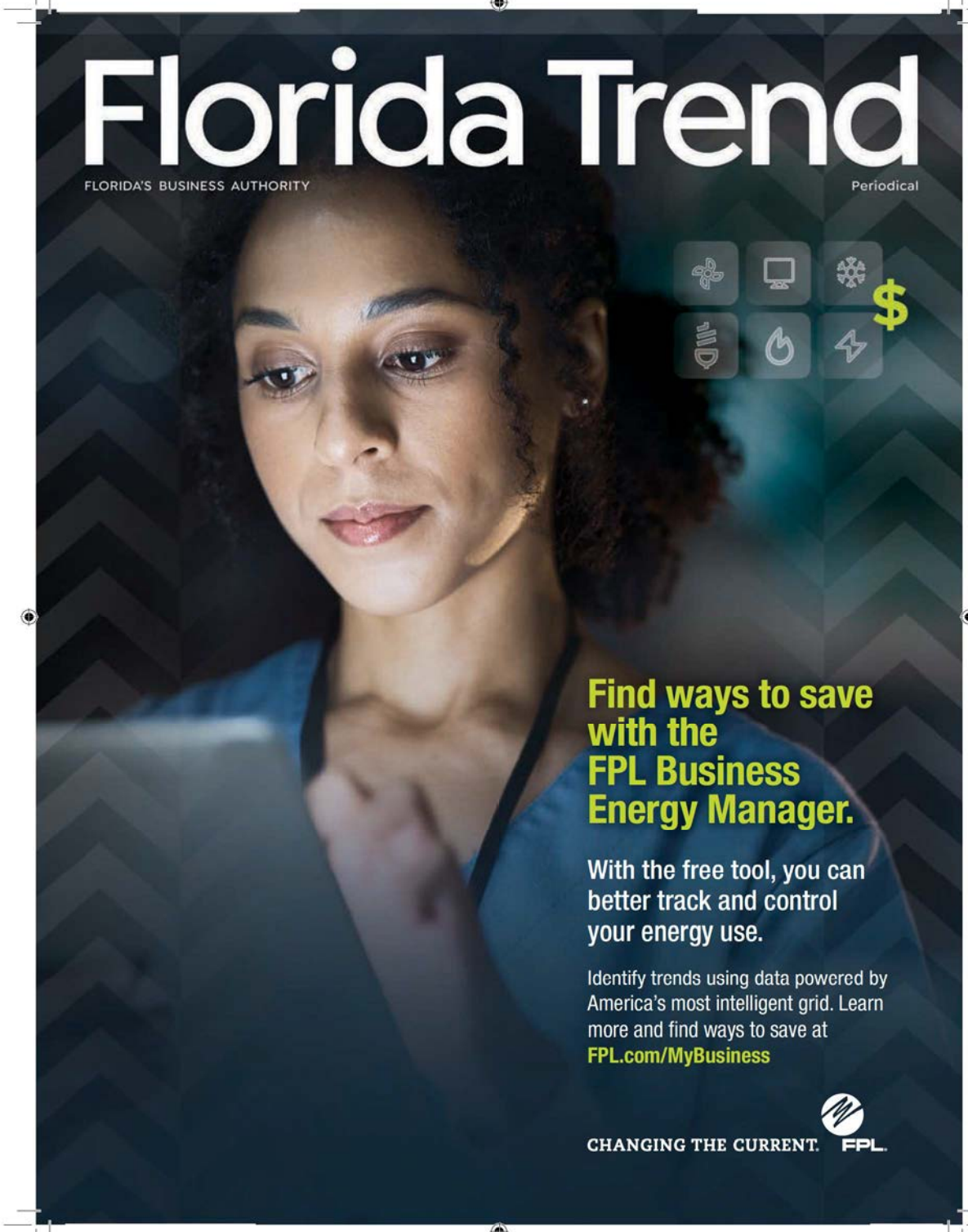

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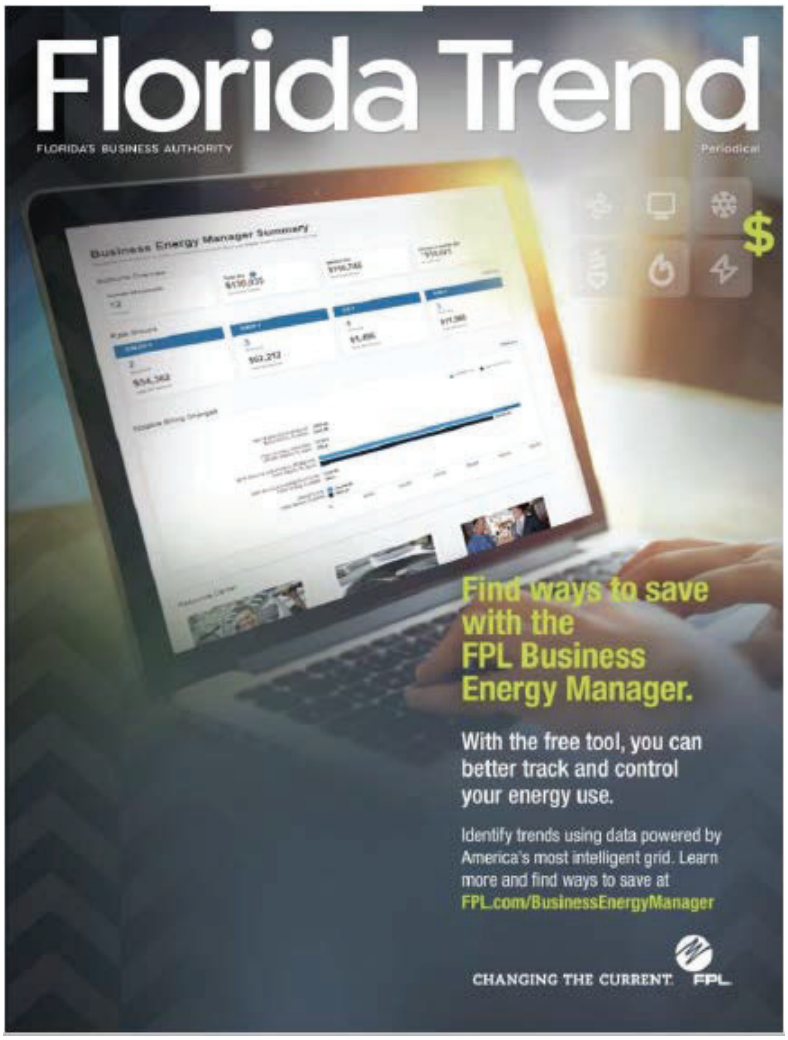

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Docket 20240002-EG
2023 ECCR Final True-Up Calculation
Exhibit LKH-1, Page 66 of 87




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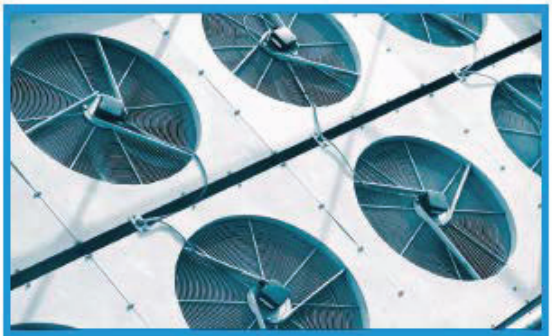
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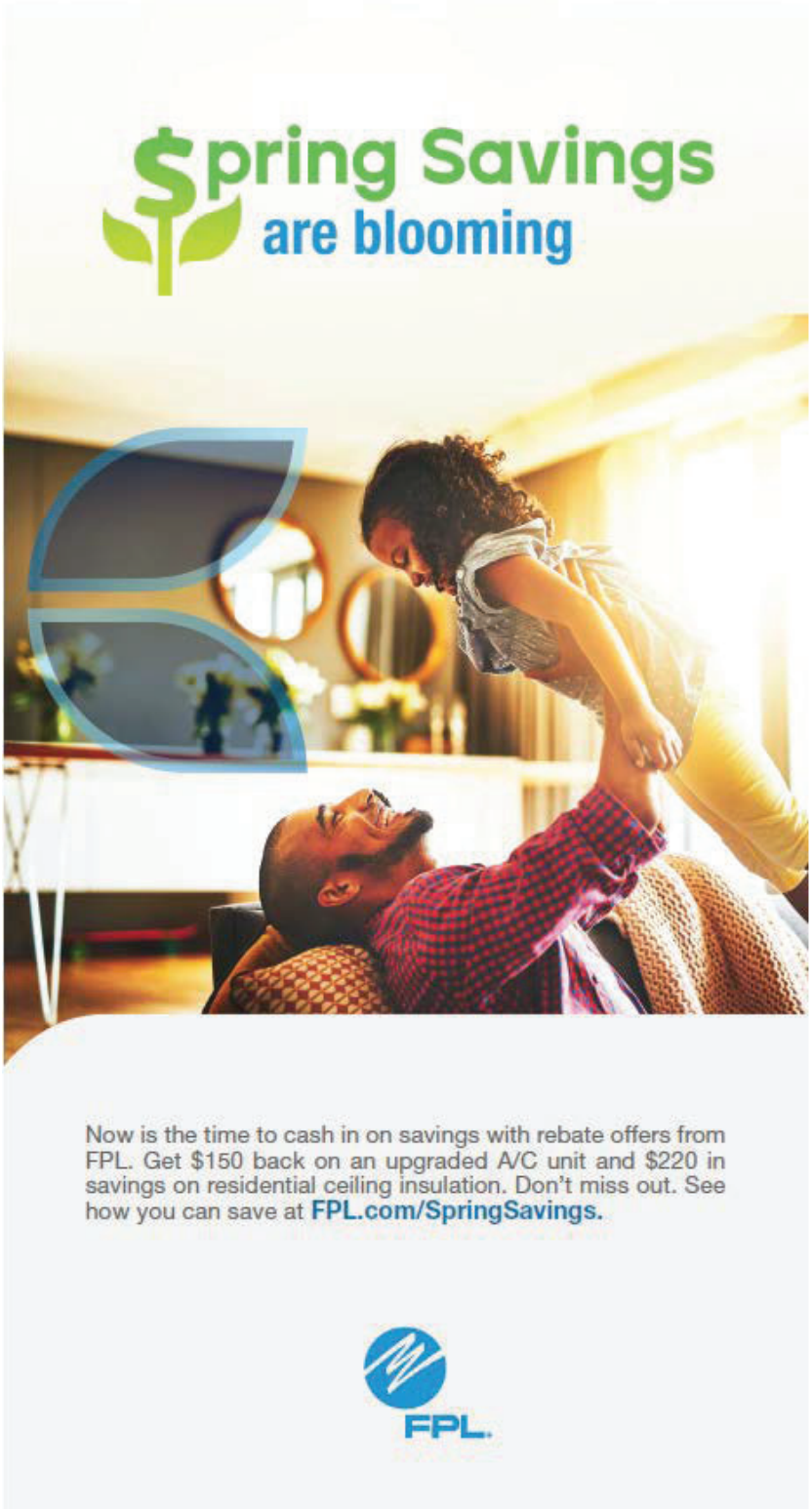
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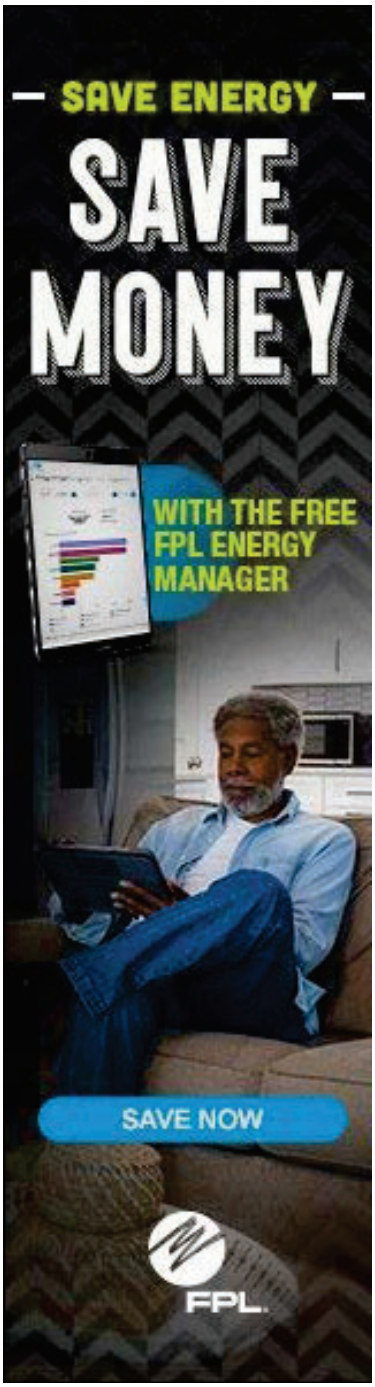

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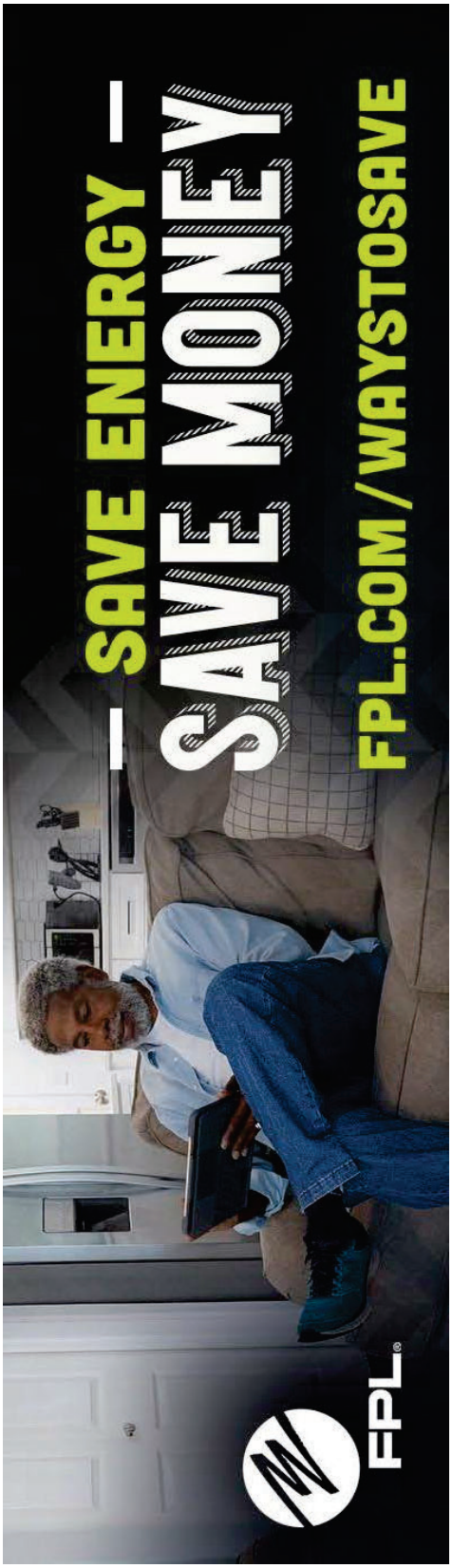

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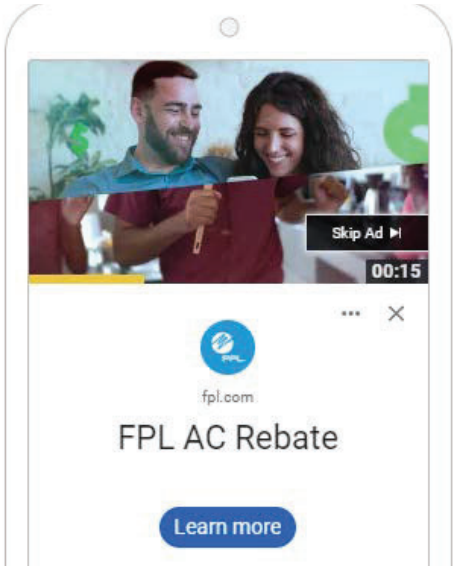
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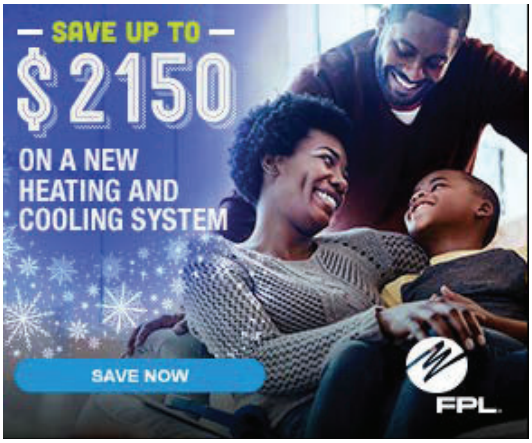
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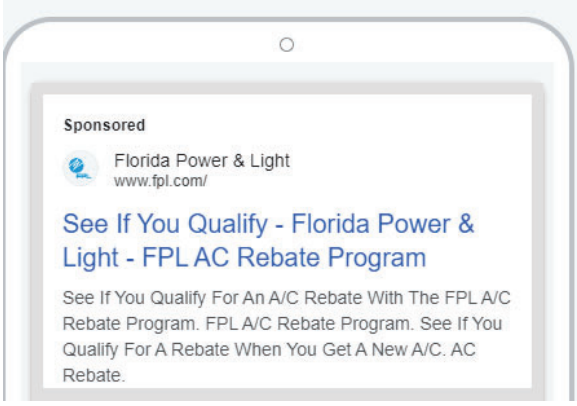
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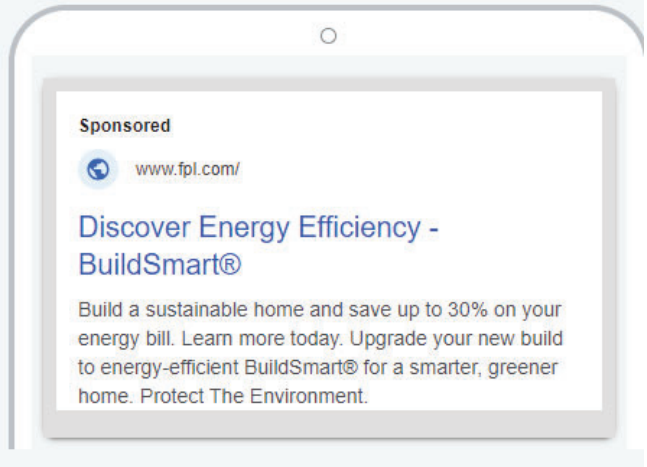
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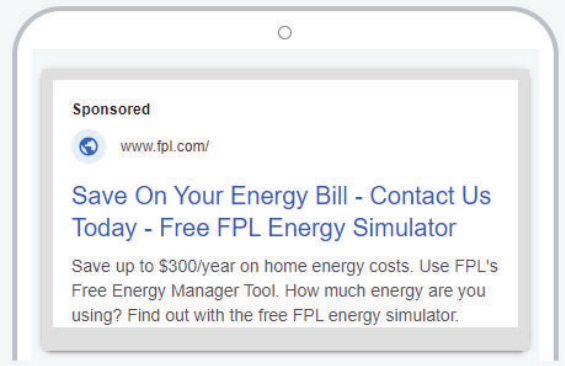
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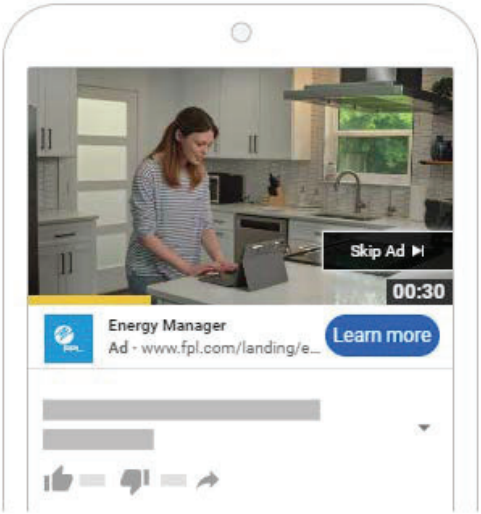

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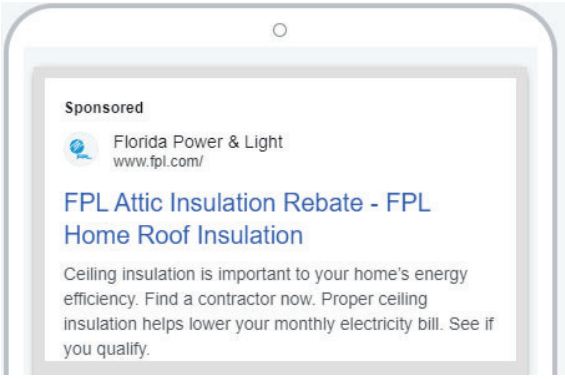

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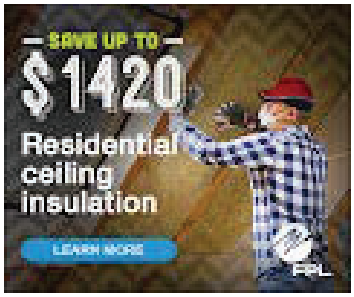

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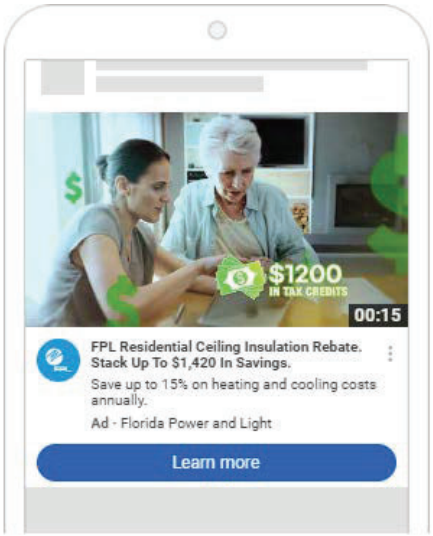

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FILED 5/1/2024
DOCUMENT NO. 02663-2024
FPSC - COMMISSION CLERK

DUKE ENERGY. FLORIDA

Stephanie A. Cuello
SENIOR COUNSEL

May 1, 2024

VIA ELECTRONIC FILING

Adam J. Teitzman, Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: *Energy Conservation Cost Recovery Clause;* Docket No. 20240002-EG

Dear Mr. Teitzman:

On behalf of Duke Energy Florida, LLC ("DEF"), please find enclosed for electronic filing in the above-referenced docket:

- DEF's Petition for Approval of True-Up Amount for the Period January 2023 through December 2023; and
- Direct Testimony of Karla Rodriguez with attached Exhibit No. KR-1T.

Thank you for your assistance in this matter and if you have any questions, please feel free to contact me at (850) 521-1425.

Sincerely,

/s/ Stephanie A. Cuello

Stephanie A. Cuello

SAC/clg
Attachments

106 East College Avenue, Suite 800, Tallahassee, FL 32301
Phone: 850.521.1425 ■ Email: stephanie.cuello@duke-energy.com

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Energy Conservation Cost Recovery Clause	Docket No. 20240002-EG Filed: May 1, 2024

DUKE ENERGY FLORIDA, LLC'S
PETITION FOR APPROVAL OF TRUE-UP AMOUNT

Pursuant to Order No. PSC-2024-0028-PCO-EG, issued February 6, 2024, in the above-referenced docket, Duke Energy Florida, LLC ("DEF" or "the Company") petitions the Florida Public Service Commission ("Commission") for approval of an over-recovery of $3,699,623 as DEF's adjusted net true-up amount for the period January 2023 through December 2023. In support of this petition, DEF states:

1. The name and address of the affected agency are:

   Florida Public Service Commission
   2540 Shumard Oak Boulevard
   Tallahassee, Florida 32399-0850

2. The Petitioner's name and address are:

   Duke Energy Florida, LLC
   299 First Avenue North
   St. Petersburg, Florida 33701

Notices, orders, pleadings and correspondence to be served upon DEF in this proceeding should be directed to:

Dianne M. Triplett
Deputy General Counsel
Duke Energy Florida
299 1st Avenue North
St. Petersburg, FL 33701
(727) 820-4692 telephone
Dianne.Triplett@duke-energy.com

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Tallahassee, FL 32301
(850) 521-1425 telephone
Stephanie.Cuello@duke-energy.com
FLRegulatoryLegal@duke-energy.com

3. DEF is a public utility subject to the Commission's jurisdiction pursuant to Chapter 366, Florida Statutes (F.S.). Pursuant to Section 366.82, F.S., and Rule 25-17.015, Florida Administrative Code (F.A.C.), DEF recovers its reasonable and prudent unreimbursed costs for conservation audits, conservation programs and implementation of DEF's conservation plan through the Energy Conservation Cost Recovery ("ECCR") clause. DEF has substantial interests in the proper calculation and recovery of its ECCR factor and the final true-up which is used in the computation of the ECCR factor.

4. DEF seeks Commission approval of an over-recovery of $3,699,623 as the adjusted net true-up amount for the period January 2023 through December 2023. DEF's final adjusted net true-up amount for the period January 2023 through December 2023 was calculated consistent with the methodology set forth in Schedule 1 attached to Commission Order No. 10093, dated June 19, 1981. This calculation and supporting documentation are contained in Exhibit KR-1T, an exhibit attached to the prefiled testimony of DEF's witness Karla Rodriguez, which is being filed in conjunction with this petition.

5. As reflected on Schedule CT-1 of Exhibit KR-1T to Ms. Rodriguez' testimony, the adjusted net true-up for the period January 2023 through December 2023 is an over-recovery of $3,699,623, which is the difference of the actual true-up over-recovery of $9,254,377 and the estimated/actual true-up over-recovery of $5,554,754.

WHEREFORE, DEF respectfully requests that the Commission approve an over-recovery of $3,699,623 as the final adjusted net true-up amount for the period January 2023 through December 2023.

Respectfully submitted this 1st day of May, 2024.

Respectfully submitted,

/s/ Stephanie A. Cuello
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FLRegulatoryLegal@duke-energy.com

CERTIFICATE OF SERVICE
Docket No. 20240002-EG

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 1st day of May, 2024.

/s/ Stephanie A. Cuello
Attorney

Jacob Imig / Carlos Marquez / Saad Farooqi Office of General Counsel Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 jimig@psc.state.fl.us CMarquez@psc.state.fl.us sfarooqi@psc.state.fl.us J. Wahlen / M. Means / V. Ponder Tampa Electric Company P.O. Box 391 Tallahassee, FL 32302 jwahlen@ausley.com mmeans@ausley.com vponder@ausley.com Jon C. Moyle, Jr. FIPUG 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com mqualls@moylelaw.com Maria Jose Moncada / William P. Cox Florida Power & Light Company 700 Universe Boulevard Juno Beach, FL 33408-0420 maria.moncada@fpl.com will.p.cox@fpl.com James W. Brew / Laura Wynn Baker / Sarah B. Newman Stone Mattheis Xenopoulos & Brew, P.C. PCS Phosphate –White Springs 1025 Thomas Jefferson Street, NW Eighth Floor, West Tower Washington, DC 20007 jbrew@smxblaw.com lwb@smxblaw.com sbn@smxblaw.com Peter J. Mattheis / Michael K. Lavanga / Joseph R. Briscar Stone Mattheis Xenopoulos & Brew, PC NUCOR 1025 Thomas Jefferson Street, NW Eighth Floor, West Tower Washington, DC 20007 pjm@smxblaw.com mkl@smxblaw.com jrb@smxblaw.com	W. Trierweiler / M. Wessling /P. Christensen /O. Ponce / A. Watrous / C. Rehwinkel Office of Public Counsel 111 West Madison Street, Room 812 Tallahassee, FL 32399-1400 trierweiler.walt@leg.state.fl.us wessling.mary@leg.state.fl.us christensen.patty@leg.state.fl.us ponce.octavio@leg.state.fl.us watrous.austin@leg.state.fl.us rehwinkel.charles@leg.state.fl.us Kenneth A. Hoffman Florida Power & Light Company 134 W. Jefferson Street Tallahassee, FL 32301-1713 ken.hoffman@fpl.com Beth Keating Florida Public Utilities Company 215 South Monroe Street, Suite 601 Tallahassee, FL 32301 bkeating@gunster.com Derrick Craig Florida Public Utilities Company 208 Wildlight Avenue Yulee, FL 32097 dcraig@chpk.com Michelle D. Napier Florida Public Utilities Company 1635 Meathe Drive West Palm Beach, FL 33411 mnapier@fpuc.com Paula K. Brown Tampa Electric Company P.O. Box 111 Tampa, FL 33601 regdept@tecoenergy.com

DUKE ENERGY FLORIDA, LLC

DOCKET NO. 20240002-EG

Energy Conservation and Cost Recovery Final True-up for the Period January through December 2023

DIRECT TESTIMONY OF Karla Rodriguez

May 1, 2024

Q. Please state your name and business address.

A. My name is Karla Rodriguez. My business address is 299 1st Ave N, St. Petersburg, FL 33701.

Q. By whom are you employed and in what capacity?

A. I am employed by Duke Energy Business Services, LLC, as Lead Strategy & Collaboration Manager in the Portfolio Regulatory Strategy and Support department. Duke Energy Business Services and Duke Energy Florida, LLC ("DEF" or "the Company") are both wholly owned subsidiaries of Duke Energy Corporation.

Q. What are your duties and responsibilities in that position?

A. My responsibilities include regulatory planning, support and compliance of the Company's energy efficiency and demand-side management ("DSM") programs. This includes support for development, implementation and training, budgeting, and accounting functions related to these programs.

Q. What is the purpose of your testimony?

A. The purpose of my testimony is to compare DEF's 2023 actual energy conservation program costs with actual revenues collected through the Company's Energy Conservation Cost Recovery ("ECCR") Clause during the period January 2023 through December 2023. The Company relies upon the information presented in my testimony and exhibit in the conduct of its affairs.

Q. For what programs does Duke Energy Florida seek recovery?

A. DEF seeks recovery through the ECCR Clause for conservation programs approved by the Commission as part of the Company's DSM Plan, as well as for Conservation Program Administration (i.e., those common administration expenses not specifically assigned to an individual program). Notably, DEF seeks recovery of costs for conservation programs approved by the Commission on August 3, 2020 (see Order No. PSC-2020-0274-PAA-EG), as follows:

- Home Energy Check
- Residential Incentive
- Neighborhood Energy Saver
- Low-Income Weatherization Assistance Program
- Load Management (Residential and Commercial)
- Business Energy Check
- Better Business a/k/a Smart $aver Business
- Smart $aver Custom Incentive
- Standby Generation

- Interruptible Service
- Curtailable Service
- Technology Development
- Qualifying Facility

Q. Do you have any exhibits to your testimony?

A. Yes, Exhibit KR-1T entitled, "Duke Energy Florida, LLC Energy Conservation Adjusted Net True-Up for the Period January 2023 through December 2023." There are six (6) schedules included in this exhibit.

Q. Will you please explain your exhibit?

A. Yes. Exhibit KR-1T presents Schedules CT-1 through CT-6. Schedules CT-1 to CT-4 set out actual costs incurred for all programs during the period from January 2023 through December 2023. These schedules also illustrate variances between actual costs and previously projected values for the same time period. Schedule CT-5 provides a brief summary of each conservation program that includes a program description, program accomplishments, annual program expenditures, significant program cost variances versus projections and a program progress summary over the twelve-month period ending December 2023. Schedule CT-6 is DEF's capital structure and cost rates.

Q. Would you please discuss Schedule CT-1?

A. Yes. Schedule CT-1 line 14 shows that DEF's actual end-of-period ECCR true-up for December 31, 2023, was an over-recovery of $3,699,623, including principal and interest.

Q. What does Schedule CT-2 show?

A. The four pages of Schedule CT-2 provide an annual summary of conservation program revenues as well as itemized conservation program costs for the period January 2023 through December 2023 detailing actual, estimated and variance calculations by program. These costs are directly attributable to DEF's Commission-approved programs.

Q. Would you please discuss Schedule CT-3?

A. Yes. Page one of Schedule CT-3 provides actual conservation program costs by month for the period January 2023 through December 2023. Page two of Schedule CT-3 presents program revenues by month offset by expenses, a calculation of the end of period net true-up for each month, and the total for the year. Page three provides the monthly interest calculation. Page four of Schedule CT-3 provides conservation account numbers for the 2023 calendar year.

Q. **What is the purpose of Schedule CT-4?**

A. The three pages of Schedule CT-4 show monthly capital investment, depreciation and return for each applicable conservation program.

Q. Would you please discuss Schedule CT-5?

A. Yes. Schedule CT-5 provides a brief summary of each conservation program that includes a program description, program accomplishments, annual program expenditures, significant program cost variances versus projections and a program progress summary for the 2023 calendar year.

Q. What is the purpose of Schedule CT-6?

A. Schedule CT-6 is the capital structure and cost rates used to calculate the return for each applicable conservation program.

Q. What capital structure and cost rates did DEF rely on to calculate the revenue requirement rate of return for the period January 2023 through December 2023?

A. DEF used the capital structure and cost rates consistent with the language in Order No. PSC-2020-0165-PAA-EU and Order No. PSC-2022-0357-FOF-EI. The capital structure and cost rates relied on to calculate the revenue requirement rate of return for the period January 2023 through December 2023 are shown on Schedule CT-6.

Q. What is the source of data used to calculate the true-up amount.

A. The actual data used in calculating the actual true-up amounts is from DEF's records unless otherwise indicated. These records are kept in the regular course of DEF's business in accordance with general accounting principles and practices, provisions of the Uniform System of Accounts as prescribed by the Federal Energy Regulatory

Commission and any accounting rules and orders established by this Commission. Pursuant to Rule 25-17.015(3), F.A.C., DEF provides a list of all account numbers used for conservation cost recovery during the period January 2023 through December 2023 on Schedule CT-3 page 4.

Q. Does this conclude your Direct Testimony?

A. Yes.

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Schedule CT-1
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Duke Energy Florida, LLC
Energy Conservation Adjusted Net True-Up
For the Period January 2023 through December 2023

Line No.			
1	**Actual End of Period True-Up (Over) / Under Recovery**		
2	Beginning Balance	$7,706,868	
3	Principal (CT 3, Page 2 of 4)	(8,901,192)	
4	Interest (CT 3, Page 3 of 4)	(353,185)	
5	Prior True-Up Refund	(7,706,868)	
6	Adjustments	0	(9,254,377)
7	**Less: Estimated True-Up from August 2023 Filig (Over)/Under Recovery**		
9	Beginning Balance	7,706,868	
10	Principal	(5,255,295)	
11	Interest	(299,459)	
12	Prior True-Up Refund	(7,706,868)	
13	Adjustments	0	(5,554,754)
14	Variance to A/ E Filing		($3,699,623)

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Witness: Karla Rodriguez
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Schedule CT-2
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Duke Energy Florida, LLC
Analysis of Energy Conservation Program Costs
Actual vs. Estimated
For the Period January 2023 through December 2023

Line No.	Program	Actual	Estimated	Difference
1	Depreciation Amortization & Return	5,642,504	5,774,606	(132,102)
2	Payroll & Benefits	11,943,633	12,227,832	(284,199)
3	Materials & Supplies	591,771	363,765	228,006
4	Outside Services	3,406,450	3,929,704	(523,253)
5	Advertising	592,284	848,561	(256,276)
6	Incentives	85,894,476	88,578,001	(2,683,525)
7	Vehicles	346,837	338,959	7,878
8	Other	658,731	641,091	17,640
9	Program Revenues	0	0	0
10	Total Program Costs	109,076,687	112,702,518	(3,625,831)
11	*Less:*			
12	Conservation Clause Revenues	110,271,011	$110,250,945	20,066
13	Prior True-Up	7,706,868	7,706,868	(0)
14	True-Up Before Interest	(8,901,192)	(5,255,295)	(3,645,897)
15	Adjustment	0	0	0
16	Interest Provision	(353,185)	(299,459)	(53,726)
17	End of Period True-Up	(9,254,377)	(5,554,754)	(3,699,623)

( ) Reflects Over-Recovery
** Certain schedules may not foot/crossfoot due to rounding of decimals in files.

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Duke Energy Florida, LLC
Actual Energy Conservation Program Costs Per Program
For the Period January 2023 through December 2023

Line No.	Program	Depreciation Amortization & Return	Payroll & Benefits	Vehicles	Outside Services	Materials & Supplies	Advertising	Incentives	Other	Sub-Total	Program Revenues (Credit)	Total
1	Home Energy Check	0	3,373,512	122,091	196,746	73,479	215,944	844,801	105,052	4,931,626	0	4,931,626
2	Residential Incentive Program	0	1,218,140	47,456	163,347	59,729	161,106	2,136,844	103,674	3,890,296	0	3,890,296
3	Business Energy Check	0	414,316	6,145	40,596	49,206	31,439	0	25,952	567,655	0	567,655
4	Better Business a/k/a Smart $aver Business	0	1,001,345	2,073	130,748	915	27,785	552,876	35,853	1,751,596	0	1,751,596
5	Technology Development	0	231,221	48,138	43,371	51,135	0	0	3,901	377,765	0	377,765
6	Smart $aver Custom Incentive	0	106,619	231	81,002	85	10,026	0	15,545	213,508	0	213,508
7	Interruptible Service	716,346	647,969	31,717	2,813	59,085	0	46,824,365	54,709	48,337,004	0	48,337,004
8	Curtailable Service	0	34,991	0	938	2,540	0	1,839,031	10,494	1,887,993	0	1,887,993
9	Load Management (Residential & Commercial)	4,926,158	2,030,056	41,052	2,120,578	102,098	48,950	22,061,784	55,571	31,386,248	0	31,386,248
10	Low Income Weatherization Assistance	0	144,550	2,187	1,765	848	0	104,802	7,646	261,798	0	261,798
11	Standby Generation	0	377,154	20,134	11,906	12,697	0	5,604,128	21,257	6,047,277	0	6,047,277
12	Qualifying Facility	0	672,652	903	0	46	0	0	3,250	676,851	0	676,851
13	Neighborhood Energy Saver	0	201,432	4,055	380,521	1,483	97,035	5,925,846	16,519	6,626,891	0	6,626,891
14	Conservation Program Admin	0	1,489,676	20,656	232,118	178,423	0	0	199,307	2,120,180	0	2,120,180
15	Total All Programs	5,642,504	11,943,633	346,837	3,406,450	591,771	592,284	85,894,476	658,731	109,076,687	0	109,076,687

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Duke Energy Florida, LLC
Vaiance in Energy Conseervation Program Costs
12 Months Actual vs. 12 Months Estimated

Line No.	Program	Depreciation Amortization & Return	Payroll & Benefits	Vehicles	Outside Services	Materials & Supplies	Advertising	Incentives	Other	Sub-Total	Program Revenues (Credit)	Total
1	Home Energy Check	0	(55,875)	(2,909)	(153,327)	34,184	(194,775)	229,982	24,552	(118,168)	0	(118,168)
2	Residential Incentive Program	0	(41,304)	(4,259)	4,757	44,604	(87,589)	209,230	(1,566)	123,871	0	123,871
3	Business Energy Check	0	(29,573)	(500)	(43,703)	14,668	1,803	0	(4,354)	(61,660)	0	(61,660)
4	Better Business a/k/a Smart $aver Business	0	(37,322)	(1,026)	(23,367)	(2,469)	(4,777)	159,702	(1,643)	89,099	0	89,099
5	Technology Development	0	(35,524)	4,034	(47,399)	6,972	0	0	(102)	(72,018)	0	(72,018)
6	Smart $aver Custom Incentive	0	(4,654)	(172)	2,716	(1,085)	(4,444)	(20,000)	(202)	(27,841)	0	(27,841)
7	Interruptible Service	3,961	(49,105)	(2,838)	0	35,141	0	(1,666,459)	(4,240)	(1,683,541)	0	(1,683,541)
8	Curtailable Service	0	20,696	0	0	2,540	0	(640,754)	6,818	(610,700)	0	(610,700)
9	Load Management (Residential & Commercial)	(136,063)	(24,249)	(455)	(36,228)	54,008	16,701	(1,236,463)	(2,794)	(1,365,544)	0	(1,365,544)
10	Low Income Weatherization Assistance	0	(35,302)	697	1,531	54	(100)	(1,660)	2,697	(32,083)	0	(32,083)
11	Standby Generation	0	(30,725)	(2,955)	7,228	(4,257)	0	128,111	(1,493)	95,909	0	95,909
12	Qualifying Facility	0	(52,111)	(887)	(55,000)	(250)	0	0	(1,286)	(109,534)	0	(109,534)
13	Neighborhood Energy Saver	0	14,017	(425)	(114,789)	391	16,903	154,787	509	71,394	0	71,394
14	Conservation Program Admin	0	76,833	19,574	(65,672)	43,506	0	0	744	74,985	0	74,985
15	Total All Programs	(132,102)	(284,199)	7,878	(523,253)	228,006	(256,276)	(2,683,525)	17,640	(3,625,831)	0	(3,625,831)

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Duke Energy Florida
Witness: Karla Rodriguez
Exhibit KR-1T
Schedule CT-2
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Duke Energy Florida, LLC
Estimated Energy Conservation Program Costs Per Program
For the Period January 2023 through December 2023

Line No.	Program	Depreciation Amortization & Return	Payroll & Benefits	Vehicles	Outside Services	Materials & Supplies	Advertising	Incentives	Other	Sub-Total	Program Revenues (Credit)	Total
1	Home Energy Check	0	3,429,387	125,000	350,073	39,295	410,719	614,819	80,500	5,049,793	0	5,049,793
2	Residential Incentive Program	0	1,259,444	51,716	158,591	15,126	248,695	1,927,614	105,240	3,766,425	0	3,766,425
3	Business Energy Check	0	443,890	6,645	84,300	34,539	29,635	0	30,306	629,315	0	629,315
4	Better Business a/k/a Smart $aver Business	0	1,038,667	3,099	154,115	3,384	32,562	393,174	37,496	1,662,497	0	1,662,497
5	Technology Development	0	266,745	44,103	90,769	44,163	0	0	4,003	449,783	0	449,783
6	Smart $aver Custom Incentive	0	111,273	403	78,286	1,170	14,470	20,000	15,748	241,349	0	241,349
7	Interruptible Service	712,385	697,074	34,555	2,813	23,944	0	48,490,825	58,950	50,020,546	0	50,020,546
8	Curtailable Service	0	14,295	0	938	0	0	2,479,784	3,676	2,498,693	0	2,498,693
9	Load Management (Residential & Commercial)	5,062,221	2,054,306	41,508	2,156,807	48,091	32,249	23,298,247	58,365	32,751,792	0	32,751,792
10	Low Income Weatherization Assistance	0	179,852	1,489	235	794	100	106,462	4,949	293,881	0	293,881
11	Standby Generation	0	407,879	23,090	4,678	16,954	0	5,476,017	22,750	5,951,368	0	5,951,368
12	Qualifying Facility	0	724,763	1,789	55,000	296	0	0	4,536	786,385	0	786,385
13	Neighborhood Energy Saver	0	187,415	4,480	495,310	1,092	80,131	5,771,059	16,009	6,555,497	0	6,555,497
14	Conservation Program Admin	0	1,412,843	1,081	297,790	134,917	0	0	198,564	2,045,195	0	2,045,195
15	Total All Programs	5,774,606	12,227,832	338,959	3,929,704	363,765	848,561	88,578,001	641,091	112,702,518	0	112,702,518

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Duke Energy Florida, LLC
Actual Conservation Program Costs by Month
For the Period January 2023 through December 2023

Line No.	Program	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Home Energy Check	314,665	344,936	320,405	420,016	412,794	652,126	433,584	403,521	471,761	450,257	368,027	339,533	4,931,626
2	Residential Incentive Program	266,886	236,902	262,289	281,380	314,356	383,495	324,071	331,452	420,639	397,316	345,175	326,335	3,890,296
3	Business Energy Check	39,997	43,376	47,273	55,170	46,570	44,287	46,177	57,499	62,280	54,284	35,313	35,429	567,655
4	Better Business a/k/a Smart $aver Business	124,114	145,163	168,373	141,438	125,287	114,453	161,112	216,480	176,591	172,009	95,077	111,499	1,751,596
5	Technology Development	20,634	24,477	51,934	29,591	34,533	28,028	47,401	21,581	52,022	21,770	18,055	27,739	377,765
6	Smart $aver Custom Incentive	13,596	16,689	25,760	18,837	18,115	22,065	25,170	17,781	15,156	16,670	11,209	12,462	213,508
7	Interruptible Service	4,355,310	4,070,724	4,199,491	3,836,784	4,057,221	3,802,570	4,311,772	3,680,101	3,800,712	3,773,772	3,927,495	4,521,053	48,337,004
8	Curtailable Service	233,215	205,049	164,055	174,324	144,467	108,388	24,154	76,594	456,587	107,368	96,824	96,968	1,887,993
9	Load Management (Residential & Commercial)	3,383,855	2,553,305	2,475,010	2,277,418	2,366,249	2,675,779	2,823,846	2,820,246	2,794,322	2,493,162	2,089,019	2,634,037	31,386,248
10	Low Income Weatherization Assistance	15,396	23,547	30,400	14,343	33,492	24,066	10,614	16,151	34,086	17,735	19,150	22,818	261,798
11	Standby Generation	480,198	481,532	528,138	471,001	525,124	489,068	513,375	502,296	499,805	532,288	489,803	534,648	6,047,277
12	Qualifying Facility	60,504	61,083	63,481	58,600	60,294	60,348	57,526	53,962	56,998	57,365	41,293	45,397	676,851
13	Neighborhood Energy Saver	427,918	20,011	1,126,886	554,192	18,191	1,418,107	588,468	697,054	483,727	683,385	603,744	5,207	6,626,891
14	Conservation Program Admin	143,478	138,698	191,783	125,380	168,588	183,036	158,624	243,227	110,248	158,205	242,956	255,957	2,120,180
15	Total All Programs	9,879,767	8,365,491	9,655,279	8,458,473	8,325,282	10,005,816	9,525,896	9,137,944	9,434,932	8,935,586	8,383,139	8,969,082	109,076,687
16	Less: Base Rate Recovery	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Net Recoverable (CT-3,Page 2, Line 4)	9,879,767	8,365,491	9,655,279	8,458,473	8,325,282	10,005,816	9,525,896	9,137,944	9,434,932	8,935,586	8,383,139	8,969,082	109,076,687

Duke Energy Florida, LLC
Energy Conservation Cost Recovery
Energy Conservation Adjustment
Calculation of True-Up
January 2023 - December 2023

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Line No.		Act January	Act February	Act March	Act April	Act May	Act June	Act July	Act August	Act September	Act October	Act November	Act December	Total
1	ECCR Revenues	$8,556,739	$7,145,949	$8,171,424	$8,419,998	$8,645,278	$10,176,466	$11,185,332	$11,718,556	$11,485,164	$9,446,159	$7,635,284	$7,684,662	$110,271,011
2	Prior Period True-Up Over/(Under) Recovery	642,239	642,239	642,239	642,239	642,239	642,239	642,239	642,239	642,239	642,239	642,239	642,239	7,706,868
3	ECCR Revenues Applicable to Period	9,198,978	7,788,188	8,813,663	9,062,237	9,287,517	10,818,705	11,827,571	12,360,795	12,127,403	10,088,398	8,277,523	8,326,901	117,977,879
4	ECCR Expenses	9,879,767	8,365,491	9,655,279	8,458,473	8,325,282	10,005,816	9,525,896	9,137,944	9,434,932	8,935,586	8,383,139	8,969,082	109,076,687
5	True-Up This Period (Over)/Under Recovery	680,788	577,303	841,616	(603,764)	(962,235)	(812,889)	(2,301,675)	(3,222,851)	(2,692,470)	(1,152,812)	105,617	642,181	(8,901,192)
6	Current Period Interest	(26,361)	(22,404)	(17,717)	(15,330)	(16,441)	(17,705)	(22,133)	(32,191)	(42,697)	(48,466)	(48,018)	(43,722)	(353,185)
7	Adjustments	0	0	0	0	0	0	0	0	0	0	0	0	0
8	True-Up & Interest Provision Beginning of Period	(7,706,868)	(6,410,201)	(5,213,064)	(3,746,926)	(3,723,781)	(4,060,218)	(4,248,573)	(5,930,142)	(8,542,945)	(10,635,873)	(11,194,912)	(10,495,075)	(7,706,868)
9	GRT Refunded	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Prior Period True-Up Over/(Under) Recovery	642,239	642,239	642,239	642,239	642,239	642,239	642,239	642,239	642,239	642,239	642,239	642,239	7,706,868
11	End of Period Net True-Up	($6,410,201)	($5,213,064)	($3,746,926)	($3,723,781)	($4,060,218)	($4,248,573)	($5,930,142)	($8,542,945)	($10,635,873)	($11,194,912)	($10,495,075)	($9,254,377)	($9,254,377)

Duke Energy Florida, LLC
Energy Conservation Cost Recovery
Calculation of Interest Provision
January 2023 - December 2023

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Line No.		Act January	Act February	Act March	Act April	Act May	Act June	Act July	Act August	Act September	Act October	Act November	Act December	Total
1	Beginning True-Up Amount (C3, Page 7, Lines 7 & 8)	($7,706,868)	($6,410,201)	($5,213,064)	($3,746,926)	($3,723,781)	($4,060,218)	($4,248,573)	($5,930,142)	($8,542,945)	($10,635,873)	($11,194,912)	($10,495,075)	
2	Ending True-Up Amount Before Interest (C3, Page 7, Lines 5,7-10)	(6,383,840)	(5,190,660)	(3,729,209)	(3,708,451)	(4,043,777)	(4,230,868)	(5,908,009)	(8,510,754)	(10,593,176)	(11,146,446)	(10,447,057)	(9,210,655)	
3	Total Beginning & Ending True-Up (Line 1 + Line 2)	(14,090,708)	(11,600,861)	(8,942,273)	(7,455,377)	(7,767,557)	(8,291,085)	(10,156,582)	(14,440,896)	(19,136,121)	(21,782,320)	(21,641,969)	(19,705,729)	
4	Average True-Up Amount (50% of Line 3)	(7,045,354)	(5,800,430)	(4,471,136)	(3,727,688)	(3,883,779)	(4,145,543)	(5,078,291)	(7,220,448)	(9,568,061)	(10,891,160)	(10,820,985)	(9,852,865)	
5	Interest Rate: First Day Reporting Business Month	4.37%	4.61%	4.66%	4.85%	5.02%	5.14%	5.11%	5.35%	5.35%	5.36%	5.32%	5.33%	
6	Interest Rate: First Day Subsequent Business Month	4.61%	4.66%	4.85%	5.02%	5.14%	5.11%	5.35%	5.35%	5.36%	5.32%	5.33%	5.32%	
7	Total (Line 5 & Line 6) (Line 5 + Line 6)	8.98%	9.27%	9.51%	9.87%	10.16%	10.25%	10.46%	10.70%	10.71%	10.68%	10.65%	10.65%	
8	Average Interest Rate (50% of Line 7)	4.49%	4.64%	4.76%	4.94%	5.08%	5.13%	5.23%	5.35%	5.36%	5.34%	5.33%	5.33%	
9	Interest Provision (Line 4 * Line 8) / 12	($26,361)	($22,404)	($17,717)	($15,330)	($16,441)	($17,705)	($22,133)	($32,191)	($42,697)	($48,466)	($48,018)	($43,722)	($353,185)

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Duke Energy Florida, LLC
Conservation Account Numbers
For the Period January 2023 - December 2023

Line No.	Account	Product	Program
1	0908000	HEHC	Home Energy Check
1	0909000	HEHC	Home Energy Check (Advertising)
2	0908000	SSHEI	Residential Incentive Program
2	0909000	SSHEI	Residential Incentive Program (Advertising)
3	0908000	NRAOS	Business Energy Check
3	0909000	NRAOS	Business Energy Check (Advertising)
4	0908000	NRBBUS	Better Business a/k/a Smart $aver Business
4	0909000	NRBBUS	Better Business a/k/a Smart $aver Business (Advertising)
5	0908000	TECDEV	Technology Development
6	0908000	NRPRSC	Smart $aver Custom Incentive
6	0909000	NRPRSC	Smart $aver Custom Incentive (Advertising)
7	0908000	IRRSVC	Interruptible Service
8	0908000	PWRSHR	Curtailable Service
9	0908000	PWRMGR	Load Management - Residential
9	0908002	PWRMGR	Load Management - Residential (Amortization of Load Mgmt Switches)
9	0909000	PWRMGR	Load Management - Residential (Advertising)
9	0182398	PWRMGR	Load Management - Residential (Switch installation)
9	0182309	PWRMGR	Load Management - Residential (Amortization of Load Mgmt Switches)
10	0908000	COMLM	Load Management - Commercial
11	0908000	WZELEC	Low Income Weatherization Assistance
11	0909000	WZELEC	Low Income Weatherization Assistance (Advertising)
12	0908000	STBGEN	Standby Generation
13	0908000	PPCOGN	Qualifying Facility
14	0908000	HWLI	Neighborhood Energy Saver
14	0909000	HWLI	Neighborhood Energy Saver (Advertising)
15	0908000	NOPROD	Conservation Program Admin

Duke Energy Florida, LLC
Energy Conservation Cost Recovery
Schedule of Capital Investment, Depreciation & Return
January 2023 - December 2023

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Duke Energy Florida
Witness: Karla Rodriguez
Exhibit KR-1T
Schedule CT-4
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Line No.	Program Demand (D) or Energy (E)	Beginning Balance	ACT January	ACT February	ACT March	ACT April	ACT May	ACT June	ACT July	ACT August	ACT September	ACT October	ACT November	ACT December	Total
1	**Interruptible Service (D)**														
2	Investments		$0	$398,103	$93,722	$177,711	$260,173	$0	$162,456	$38,632	$0	$190,307	$0	$57,936	$1,379,039
3	Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
4	Depreciation Base		1,910,826	1,910,826	2,308,929	2,402,651	2,580,362	2,840,535	2,840,535	3,002,990	3,041,622	3,041,622	3,231,929	3,231,929	
5															
6	Depreciation Expense		31,848	31,848	38,483	40,045	43,007	47,343	47,343	50,051	50,695	50,695	53,867	53,867	539,092
7															
8	Cumulative Investment	1,910,826	1,910,826	2,308,929	2,402,651	2,580,362	2,840,535	2,840,535	3,002,990	3,041,622	3,041,622	3,231,929	3,231,929	3,289,865	3,289,865
9	Less: Accumulated Depreciation	298,055	329,903	361,751	400,234	440,279	483,286	530,629	577,972	628,023	678,718	729,413	783,280	837,147	837,147
10	Net Investment	1,612,771	1,580,923	1,947,178	2,002,417	2,140,083	2,357,249	2,309,906	2,425,018	2,413,599	2,362,904	2,502,516	2,448,649	2,452,718	2,452,718
11	Average Investment		1,596,847	1,764,050	1,974,797	2,071,250	2,248,666	2,333,577	2,367,462	2,419,308	2,388,251	2,432,710	2,475,582	2,450,683	
12	Return on Average Investment (Note 1)		10,672	11,789	13,197	13,842	15,028	15,595	15,822	16,168	15,961	16,258	16,544	16,378	177,254
13															
14	Program Total		$42,520	$43,637	$51,680	$53,887	$58,035	$62,938	$63,165	$66,219	$66,656	$66,953	$70,411	$70,245	$716,346
15	**Residential Energy Management - Load Management Switches (D)**														
16	Expenditures Booked Directly to Plant		$137,108	$243,528	$424,134	$117,482	$369,751	$155,770	$411,846	$382,378	$327,327	$823,939	$363,975	$1,226,844	$4,984,083
17	Retirements		791,351	611,611	903,634	983,421	611,854	1,067,446	316,488	899,279	863,814	1,070,889	415,682	678,592	9,214,061
18	Closings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
19	Amortization Base		23,846,051	23,281,678	22,767,583	22,248,190	21,568,034	21,098,136	20,561,939	20,365,901	19,866,732	19,226,708	19,307,362	19,124,200	
20															
21	Amortization Expense		397,442	388,036	379,467	370,811	359,474	351,643	342,706	339,438	331,119	320,452	321,796	318,743	4,221,127
22															
23	Cumulative Investment	24,241,727	23,587,484	23,219,400	22,739,900	21,873,962	21,631,858	20,720,183	20,815,541	20,298,639	19,762,152	19,515,203	19,463,496	20,011,748	20,011,748
24	Less: Accumulated Depreciation	16,028,862	15,634,954	15,411,378	14,887,211	14,274,602	14,022,221	13,306,419	13,332,636	12,772,795	12,240,100	11,489,663	11,395,777	11,035,928	11,035,928
25	Net Investment	8,212,864	7,952,530	7,808,022	7,852,689	7,599,360	7,609,637	7,413,764	7,482,904	7,525,844	7,522,052	8,025,540	8,067,719	8,975,820	8,975,820
26	Average Investment		8,082,697	7,880,276	7,830,355	7,726,024	7,604,499	7,511,701	7,448,334	7,504,374	7,523,948	7,773,796	8,046,629	8,521,769	
27	Return on Average Investment (Note 1)		54,017	52,664	52,330	51,633	50,821	50,201	49,778	50,152	50,283	51,953	53,776	56,951	624,559
28															
29	Program Total		$451,459	$440,700	$431,797	$422,444	$410,295	$401,844	$392,484	$389,590	$381,402	$372,405	$375,572	$375,694	$4,845,686
30	**Load Management Upgrade (D)**														
31	Expenditures Booked Directly to Plant		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
32	Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
33	Investments Booked to CWIP		104	645	652,333	193,323	7,632	7,902	7,656	29,127	993,868	76,981	25,036	404,894	2,399,502
34	Closings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
35	Amortization Base		0	0	0	0	0	0	0	0	0	0	0	0	
36															
37	Amortization Expense		0	0	0	0	0	0	0	0	0	0	0	0	0
38															
39	Cumulative Plant Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Cumulative CWIP Investment	0	104	749	653,082	846,405	854,038	861,939	869,596	898,723	1,892,591	1,969,572	1,994,608	2,399,502	2,399,502
42	Net Plant Investment	0	104	749	653,082	846,405	854,038	861,939	869,596	898,723	1,892,591	1,969,572	1,994,608	2,399,502	2,399,502
43	Average Investment		52	427	326,916	749,744	850,221	857,988	865,767	884,159	1,395,657	1,931,081	1,982,090	2,197,055	
44	Return on Average Investment (Note 1)		0	3	2,185	5,010	5,682	5,734	5,786	5,909	9,328	12,905	13,247	14,683	80,472
45															
46	Program Total		$0	$3	$2,185	$5,010	$5,682	$5,734	$5,786	$5,909	$9,328	$12,905	$13,247	$14,683	$80,472
30	**Summary of Demand & Energy**														
31	Energy		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
32	Demand		493,979	484,340	485,662	481,341	474,012	470,516	461,435	461,718	457,386	452,263	459,230	460,622	5,642,504
33	Total Return & Depreciation		$493,979	$484,340	$485,662	$481,341	$474,012	$470,516	$461,435	$461,718	$457,386	$452,263	$459,230	$460,622	$5,642,504

Note 1>

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Program Description and Progress

Program Title: Home Energy Check Program

Program Description: The Home Energy Check Program is a residential energy audit program that give customers an analysis of the energy consumption of their residence as well as educational information on how to reduce energy usage and save money. The audit provides Duke Energy Florida, LLC (DEF) an opportunity to promote and directly install cost-effective measures in customer homes and educate and encourage customers to implement energy-saving practices. The Home Energy Check Program is the foundation for other residential demand-side management programs and offers the following types of energy audits:

- Type 1: Free Walk-Through (computer assisted)
- Type 2: Customer Online (Internet Option)
- Type 3: Customer Phone Assisted
- Type 4: Home Energy Rating (BERS/HERS) Audit

The Home Energy Check Program provides residential customers with energy efficiency tips and examples of easily installed, energy-efficiency measures. The program promotes continued customer involvement by demonstrating sustainable and measurable reductions in energy usage through the implementation of low-cost, energy-efficiency measures and energy-saving recommendations. Participants in the program may receive a residential Energy Efficiency Kit that contains energy-saving measures that can be easily installed and utilized by the customer. Contents of this kit are evaluated periodically and may change over time.

Program Accomplishments - January 2023 - December 2023:
36,915 customers participated in this program.

Program Fiscal Expenditures - January 2023 - December 2023:
Expenses for this program were $4,931,626.

Program Progress Summary:
1,104,751 participants have participated in the Home Energy Check Program since inception. DEF will continue to leverage this program to educate customers about cost-effective, energy-efficiency measures they can implement and incentives available for home-energy improvements for which they may be eligible. Additionally, DEF began providing Assistance Kits to low-income customers through this program. The kits contain a number of measures that provide energy efficiency savings to customers.

Program Description and Progress

Program Title: Residential Incentive Program

Program Description: The Residential Incentive Program provides incentives to customers for energy-efficiency improvements for both existing and new homes. The Residential Incentive Program includes incentives for measures such as duct testing, duct repair, attic insulation, replacement of windows, high-efficiency heat pump replacing resistance heat, high-efficiency heat pump replacing a heat pump, and newly constructed Energy Star homes.

Program Accomplishments - January 2023 - December 2023:
11,878 measures were implemented through this program resulting in savings of 2.4 Summer MW, 4.4 Winter MW and 6.5 GWh at the generator.

Program Fiscal Expenditures - January 2023 - December 2023:
Expenses for this program were $3,890,296.

Program Progress Summary:
1,120,542 measures have been implemented through this program. This program will continue to be offered to residential customers to provide opportunities for improving the energy efficiency of existing and new homes.

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Program Description and Progress

Program Title: Neighborhood Energy Saver Program

Program Description: DEF's Neighborhood Energy Saver program is designed to provide energy-saving education and assistance to low-income customers. This program targets neighborhoods that meet certain income-eligibility requirements. DEF typically installs energy-saving measures in approximately 4,500 homes.

Program Accomplishments - January 2023 - December 2023:
DEF installed numerous energy-efficiency measures in 5,846 homes.

Program Fiscal Expenditures - January 2023 - December 2023:
Expenses for this program were $6,626,891.

Program Progress Summary:
Since program inception, DEF has installed energy-efficiency measures in 54,878 homes.

Program Description and Progress

Program Title: Low-Income Weatherization Assistance Program

Program Description: The Low-Income Weatherization Assistance Program (LIWAP) is designed to integrate DEF's DSM program measures with assistance provided by the Florida Department of Economic Opportunity (DEO) and local weatherization providers to deliver energy-efficiency measures to income-eligible families. Through this partnership, DEF assists local weatherization agencies by providing energy education materials and financial incentives to weatherize the homes of low-income families.

Program Accomplishments - January 2023 - December 2023:
1,636 weatherization measures were installed on 184 residential homes.

Program Fiscal Expenditures - January 2023 - December 2023:
Expenses for this program were $261,798.

Program Progress Summary:
30,207 measures have been implemented through this program. DEF participates in local, state-wide, and national agency meetings to promote the delivery of this program. Meetings with weatherization and other low-income agencies are conducted throughout DEF's territory to encourage customer participation in energy-efficiency programs. This program was recently modified to align the eligibility with that of agencies who provide weatherization services. This change is intended to expand the network of agencies with which DEF can partner.

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Program Description and Progress

Program Title: Residential/Commercial Load Management Program

Program Description: The Residential/Commercial Load Management Program is a voluntary demand response program that provides monthly bill credits to customers who allow DEF to reduce peak demand by controlling service to selected electric equipment through various devices and communication options installed on the customer's premises. These interruptions are at DEF's option, during specified time periods, and generally coincide with hours of peak demand. Residential customers must have a minimum, average, monthly usage of 600 kWh to be eligible to participate in this program.

Program Accomplishments - January 2023 - December 2023:
2,916 residential customers were added to the program. The commercial program has been closed to new participants since 2000.

Program Fiscal Expenditures - January 2023 - December 2023:
Expenses for the residential/commercial load management program were $31,386,248.

Program Progress Summary:
There were approximately 433,000 residential participants and 59 commercial participants at year-end 2023.

Program Description and Progress

Program Title: Business Energy Check Program

Program Description: The Business Energy Check Program is a commercial energy audit program that provides commercial customers with an analysis of their energy usage and information about energy-saving practices and cost-effective measures that they can implement at their facilities. The Business Energy Check Program serves as the foundation for the Better Business Program.

Program Accomplishments - January 2023 - December 2023:
479 commercial energy audits were completed.

Program Fiscal Expenditures - January 2023 - December 2023:
Expenses for this program were $567,655.

Program Progress Summary:
44,768 non-residential customers have participated in the Business Energy Check Program since inception. This program continues to educate and inform commercial customers about cost-effective, energy-efficiency improvements.

Program Description and Progress

Program Title: Better Business a/k/a Smart $aver Business Program

Program Description: This umbrella efficiency program provides incentives to existing commercial, industrial, and governmental customers for heating, air conditioning, ceiling and roof insulation upgrades, duct leakage and repair, demand-control ventilation, cool-roof coating, high-efficiency, energy-recovery ventilation, and HVAC-optimization-qualifying measures.

Program Accomplishments - January 2023 - December 2023:
Incentives were provided to customers for 216 commercial energy efficiency measures through this program.

Program Fiscal Expenditures - January 2023 - December 2023:
Expenses for this program were $1,751,596.

Program Progress Summary:
Incentives have been provided to customers for 23,622 commercial energy-efficiency measures through this program since inception**.**

Program Description and Progress

Program Title: Smart $aver Custom Incentive Program

Program Description: The Smart $aver Custom Incentive Program (f/k/a Florida Custom Incentive Program) is designed to encourage commercial and industrial customers to make capital investments for energy-efficiency measures which reduce peak demand and provide energy savings. This program provides incentives for individual, custom projects which are cost-effective but not otherwise addressed through DEF's prescriptive incentive programs. Examples of energy-efficient technologies that would be considered under this program include but are not limited to new construction measures and new thermal energy storage systems.

Program Accomplishments - January 2023 - December 2023:
There were 0 customers who participated in this program.

Program Fiscal Expenditures - January 2023 - December 2023:
Expenses for this program were $213,508.

Program Progress Summary:
457 projects have received incentives through this program since inception. This program continues to target customer-specific, energy-efficiency measures not covered through DEF's prescriptive commercial programs.

Program Description and Progress

Program Title: Standby Generation

Program Description: The Standby Generation Program is a demand response program that allows DEF to reduce system demand by dispatching the customer's standby generator. This is a voluntary program available to commercial and industrial customers who have on-site generation capability.

Program Accomplishments - January 2023 - December 2023:
DEF added four accounts to this program.

Program Fiscal Expenditures - January 2023 - December 2023:
Expenses for this program were $6,047,277.

Program Progress Summary:
There were 187 active/enrolled accounts at year-end 2023, providing 83 of winter MW load control at the generator.

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Program Description and Progress

Program Title: Interruptible Service Program

Program Description: The Interruptible Service Program is a direct load control program that reduces DEF's system demand at times of capacity shortage during peak or emergency conditions.

Program Accomplishments - January 2023 - December 2023:
One account was added to the program.

Program Fiscal Expenditures - January 2023 - December 2023:
Expenses for this program were $48,337,004.

Program Progress Summary:
There were 173 accounts participating in this program in 2023, providing 512 of winter MW load control at the generator.

Program Description and Progress

Program Title: Curtailable Service Program

Program Description: The Curtailable Service Program is an indirect load control program that reduces DEF's system demand at times of capacity shortage during peak or emergency conditions.

Program Accomplishments - January 2023 - December 2023:
One account was added to this program.

Program Fiscal Expenditures - January 2023 - December 2023:
Expenses for this program were $1,887,993.

Program Progress Summary:
There was a total of 5 NET participants in this program in 2023, providing 56 winter MW of load control at the generator.

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Program Description and Progress

Program Title: Technology Development

Program Description: The Technology Development Program is designed to allow DEF to investigate technologies that support the development of new demand response (DR) and energy-efficiency (EE) programs. This program includes but is not limited to, technological research, field demonstration projects, research on load behavior and demand-side management (DSM) measures and other market-related research.

Program Accomplishments - January 2023 - December 2023:
Several research and development projects were completed, continued and/or launched in 2023.

- Launched a project to evaluate the energy efficiency and demand response capability of an energy storing, ultra-efficient, commercial packaged air conditioner technology that combines dew-point-style sensible cooling with liquid desiccant dehumidification. This technology implements indirect evaporative cooling using a liquid desiccant. This desiccant can be recharged and stored in a tank for use later. This stored energy can be used to make the peak power consumption very low. We are piloting this technology compared to standard packaged units at a volunteer customer site. The energy consumption of this technology will be documented. If the testing is successful, this technology could be included in future EE and DR programs.
- Continued a project to evaluate the demand response capability of the Ford Lightning Electric Pickup Truck in a Vehicle-to-Grid (V2G) configuration. The pilot will consist of lab testing of the vehicle, electric vehicle charger and home integration system. We will also test the system in 4 employee volunteer DEF customer homes. This project will focus on the capabilities of the Ford Lightning EV to provide V2G demand response, Vehicle-to-Home backup power and EV charging control. These systems could be a valuable future potential resource as a component of DEF's DR Portfolio.
- Continued a project with the University of Central Florida (UCF) to document the value of long-duration customer-side energy storage systems. This project is using the technology at UCF's Microgrid Control lab to directly test a long-duration energy storage system. Use cases to be investigated include study of battery performance during charging and discharging, documenting the effects of cycling on battery performance (battery degradation, efficiency, etc.), optimal operation of a battery energy storage system in a distribution system with high penetration of solar energy, control of behind-the-meter distributed energy resources to provide services including, peak capacity management, demand response (consuming or generating), frequency regulation, ramping capability and voltage management.

Program Description and Progress

- Continued a pilot to develop software, firmware, and applications for a Smart Home Gateway to evaluate the potential for a future home energy management program and its ability to enhance the Company's future energy efficiency and DR programs. The Smart Home Gateway currently includes processing and communications capabilities to perform on-site operations including receiving energy data from the customer's AMI meter, communications using four radios and on-site processing. Capabilities were developed and tested that included enabling appliance demand response using CTA-2045 (EcoPort) local control and enabling local control of Energy Management Circuit Breakers (EMCBs) for monitoring and demand response. These technologies allow automatic control of devices according to the customer's preference, and enabling open-source, utility-demand response using OpenADR. The Smart Home Gateway can also be used to engage customer awareness of how energy is being used in the home. These capabilities will be considered in the development of future EE and DR programs.
- Continued a project with the University of South Florida (USF) to leverage customer-sited solar PV and energy storage at the USF 5th Avenue Garage Microgrid. The system provides load smoothing, islanding, and demand response. A publicly available dashboard that shows live data, project specific facts and the capability of downloading data for further study is available for the site at https://dashboards.epri.com/duke-usfsp-parking. The result of this research may be used for the design of a potentially cost-effective DR program. USF continues its research on microgrid operation.
- Continued the Electric Power Research Institute (EPRI) Solar DPV project for data collection to document customer solar resources with a focus on larger PV arrays with and without energy storage. This project also provides the data stream for the dashboard mentioned above.
- Completed participation in an EPRI project to study the potential of using customer demand response to compensate for variable loads and intermittent renewable generation resources.
- Completed a project that will provide knowledge in methods to utilize customer Wi-Fi infrastructure to develop a dedicated, durable, and secure utility communication channel to connected devices. The project will also provide knowledge on the effectiveness of Wi-Fi-signal-strength-improvement technology. This technology could lead to lower costs and improved cost-effectiveness for existing and future DR and EE programs.
- Completed a project to evaluate the demand response capability of internet-connected residential batteries. Residential batteries potentially offer the ability to provide power reduction for demand response while eliminating any discomfort to the customer (as compared to residential appliance demand response). Certain battery manufacturers have developed technologies that allow for the collection of capacity and charge data, communication protocols for external aggregator software providers, and the ability to dispatch stored energy to serve the needs of the customer or the grid. This project focused on the capabilities of a particular

Program Description and Progress

aggregator to collect data from two battery manufacturers, the feasibility of utilizing aggregation technology for dispatching demand response event commands, and the net impact of these events on shaping demand. Such aggregation system enabled existing units that are already installed by residential customers in DEF territory to be used in this study. The results of this study will be used to develop future demand response programs utilizing customer energy storage.

- Partnered with EPRI and other research organizations to evaluate EE, energy storage, and alternative energy/innovative technologies.

Program Fiscal Expenditures - January 2023 - December 2023:
Expenses for this program were $377,765.

Program Progress Summary:
DEF continued to focus on researching and testing new technologies which has the potential to provide new programs and create new customer offerings.

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Program Description and Progress

Program Title: Qualifying Facility (QF)

Program Description: The purpose of this program is to meet the objectives and obligations established by Section 366.051, Florida Statutes, and the Commission's rules contained within Chapter 25-17, Florida Administrative Code, regarding the activity and purchase of as-available energy and firm energy and capacity from Qualifying Facilities (QF), including those that utilize renewable sources as defined in Section 366.91, Florida Statutes, pursuant to an as-available tariff, standard offer contract or negotiated contracts.

Under the QF program, DEF facilitates and administers the power purchases from QF and state jurisdictional interconnections. This Program develops standard offer contracts, negotiates, enters, amends, restructures, and terminates non-firm energy, firm energy and capacity contracts entered with qualifying cogeneration, small power producers and renewable facilities.

Program Accomplishments - January 2023 - December 2023:
Avoided cost and generator interconnection service activity with renewable and distributed resource (DR) developers continued in 2023. DEF provided QF, renewable, or DR-related information to many interested parties who are exploring distributed generation options in Florida. Numerous calls and meetings were held with parties interested in the advancement of their DR project. Meetings were also held with current and existing QF under contract to discuss restructuring and extending existing purchased power agreements. DEF continued evolving its analytics, forecasts and business processes required to support good faith QF-purchased power negotiations and interconnection service.

DEF successfully administered all existing QF-purchased power contracts that are in-service for contractual compliance. As of December 31, 2023, DEF had over 5,100 MW of solar projects in various stages of project development including grid interconnection. There were 114 active project applicants for all generation technologies in DEF's system interconnection process. The QF-purchased power contracts produced more than 2.44 million-MWh for DEF customers during 2023.

Program Fiscal Expenditures - January 2023 - December 2023:
Expenses for this program were $676,851.

Program Progress Summary:
As of December 31, 2023, DEF administered approximately 411 MW of firm capacity contracts from in-service QF, and 5 non-firm as-available energy QF contracts. As of December 31, 2023,

Program Description and Progress

DEF administered both QF pre-applications for state jurisdictional interconnections, and QF applications for its Federal Energy Regulatory Commission jurisdictional generator interconnection process. 2023 ended with over 3,600 MW of potential QF generators in various stages of development and DEF grid interconnection.

Duke Energy Florida
Cost Recovery Clause
January 2023 - December 2023
Actual Capital Structure and Cost Rates

Docket No. 20240002-EG
Duke Energy Florida
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		(1) Jurisdictional Rate Base Adjusted Retail ($000s)	(2) Cap Ratio	(3) Cost Rate	(4) Weighted Cost	(5) Revenue Requirement Rate	(6) Monthly Revenue Requirement Rate
1	Common Equity	$ 8,196,604	44.95%	10.10%	4.54%	6.08%	0.5067%
2	Long Term Debt	6,847,837	37.55%	4.60%	1.73%	1.73%	0.1442%
3	Short Term Debt	329,410	1.81%	5.17%	0.09%	0.09%	0.0075%
4	Cust Dep Active	153,259	0.84%	2.61%	0.02%	0.02%	0.0017%
5	Cust Dep Inactive	1,474	0.01%			0.00%	0.0000%
6	Invest Tax Cr	191,599	1.05%	7.60%	0.08%	0.10%	0.0083%
7	Deferred Inc Tax	2,514,030	13.79%			0.00%	0.0000%
8	**Total**	**$ 18,234,213**	**100.00%**		**6.46%**	**8.02%**	**0.6683%**

	ITC split between Debt and Equity**:		Ratio	Cost Rate	Ratio	Ratio	ITC	Weighted ITC	After Gross-up
9	Common Equity	8,196,604	54%	10.1%	5.50%	72.4%	0.08%	0.0579%	0.078%
10	Preferred Equity	-	0%				0.08%	0.0000%	0.000%
11	Long Term Debt	6,847,837	46%	4.60%	2.09%	27.6%	0.08%	0.0221%	0.022%
12	ITC Cost Rate	15,044,440	100%		7.60%			0.0800%	0.100%

	Breakdown of Revenue Requirement Rate of Return between Debt and Equity:		**Monthly Rate for Clauses**
13	Total Equity Component (Lines 1 and 9)	6.158%	**0.00513**
14	Total Debt Component (Lines 2, 3 , 4 , and 11)	1.862%	**0.00155**
15	**Total Revenue Requirement Rate of Return**	8.020%	**0.00668**

Notes:

Effective Tax Rate: 25.345%

Column:

(1) Per Order No. PSC-2020-0165-PAA-EU, issued May 20, 2020, approving amended joint motion modifying WACC methodology

(2) Column (1) / Total Column (1)

(3) Per Order No. PSC-2020-0165-PAA-EU, issued May 20, 2020, approving amended joint motion modifying WACC methodology and Order PSC-2022-0357-FOF-EI approving return on equity trigger.
Line 6 and Line 12, the cost rate of ITC's is determined under Treasury Regulation section 1.46-6(b)(3)(ii).

(4) Column (2) x Column (3)

(5) For equity components: Column (4) / (1-effective income tax rate/100)

* For debt components: Column (4)

** Line 6 is the pre-tax ITC components from Lines 9 and 11

(6) Column (5) / 12

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Commission review of numeric conservation goals (Duke Energy Florida, LLC)

Docket No. 20240013-EG

Dated: May 15, 2024

DUKE ENERGY FLORIDA, LLC'S RESPONSE TO FLORIDA RISING AND LEAGUE OF UNITED LATIN AMERICAN CITIZENS' FIRST SET OF INTERROGATORIES (NOS. 1-52)

Duke Energy Florida, LLC ("DEF"), responds to Florida Rising and the League of United Latin American Citizens ("LULAC"); First Set of Interrogatories (Nos. 1-52), as follows:

INTERROGATORIES

1. Please indicate the season and time of day during which peak demands for DEF typically occur.

Response:
DEF's peak demand typically occurs at hour ending 8am during the winter and at hour ending 5pm during the summer.

2. Please identify DEF's year by year assumptions regarding avoided energy costs that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

Response:
These are the avoided energy costs in nominal dollars. These are calculated as the marginal cost for the case that includes growth in energy efficiency and demand response programs. Please see the following avoided energy costs in the table below.

$/Mwh	Avoided Energy Cost
2025	41.73
2026	41.41
2027	40.93
2028	42.98
2029	41.95
2030	40.47
2031	39.13
2032	38.12
2033	39.74
2034	41.72
2035	44.21
2036	47.40
2037	49.44
2038	51.85
2039	54.78
2040	55.42
2041	55.62
2042	59.04
2043	61.18
2044	63.39
2045	65.68
2046	68.06
2047	70.52
2048	73.07
2049	75.71

3. Please identify DEF's year by year assumptions regarding avoided capacity costs that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

Response:
These are the avoided capacity costs in nominal dollars. They are based on the generation, transmission capital, fixed operating and maintenance costs and gas reservation charges for the avoided units. Please see the following avoided capacity costs in the table below.

Year	Avoided Unit	Total Avoided Capacity Costs $/KW - Summer Capacity	Total Avoided Capacity Costs $/KW - Winter Capacity
2029	Brownfield CT 1	$ 176.78	$ 161.86
2030		$ 176.57	$ 161.66
2031		$ 176.37	$ 161.49
2032	Brownfield CT 2	$ 158.92	$ 145.51
2033		$ 160.21	$ 146.69
2034	Avg CT 3 and 4	$ 188.34	$ 172.44
2035		$ 190.09	$ 174.04
2036		$ 191.87	$ 175.67
2037		$ 193.68	$ 177.33
2038		$ 195.52	$ 179.02
2039		$ 197.41	$ 180.74
2040		$ 199.32	$ 182.50
2041		$ 201.27	$ 184.28
2042		$ 203.26	$ 186.10
2043		$ 205.28	$ 187.95
2044		$ 207.34	$ 189.84
2045		$ 209.44	$ 191.76
2046		$ 211.57	$ 193.72
2047		$ 213.75	$ 195.71
2048		$ 215.96	$ 197.74
2049		$ 218.22	$ 199.80

4. Please identify DEF's year by year assumptions regarding avoided capacity reserves, if not included in avoided capacity costs, that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. If avoided capacity reserves were included in avoided capacity costs, please explain how that was done and what assumptions were used. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

Response:
The avoided capacity reserve is 20%, which was applied to the avoided capacity costs included in question 3.

5. Please identify DEF's year by year assumptions regarding avoided environmental compliance costs, if not included in avoided capacity and/or avoided energy costs, that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. If avoided capacity reserves were included in avoided capacity costs, please explain how that was done and what assumptions were used. If avoided future environmental compliance costs were included in such other costs, please explain how that was done and what assumptions were used. Please specify whether each

value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

Response:
Avoided environmental compliance costs were embedded in the avoided energy costs.

6. Please identify DEF's year by year assumptions regarding costs of carbon emissions that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

Response:
DEF assumed zero carbon emission costs.

7. Please identify DEF's year by year assumptions regarding avoided transmission capacity costs (in $/kW) that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

Response:
Please see document bearing Bates number 20240013-FLRISINGLULACROG1-00000001. The documents bearing Bates number 20240013-FLRISINGROG1-00000001 is confidential: redacted versions are attached hereto and unredacted copies have been submitted with the Florida Public Service Commission along with DEF's Notice of Intent to Request Confidential Classification dated May 15, 2024.

8. Please identify DEF's year by year assumptions regarding avoided distribution capacity costs (in $/kW) that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

Response:
Please see document bearing Bates number 20240013-FLRISINGLULACROG1-00000002. The documents bearing Bates number 20240013-FLRISINGROG1-00000002 is confidential: redacted versions are attached hereto and unredacted copies have been submitted with the Florida Public Service Commission along with DEF's Notice of Intent to Request Confidential Classification dated May 15, 2024.

9. Please identify DEF's year by year assumptions regarding line loss that were used to convert savings on the customers' side of the meter to generation, for as many future years as have been forecast. Please include assumptions for both energy and peak demand, and specify whether these assumptions are based on average or marginal line loss rates. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

Response:
An average line loss rate of 5.139% was used in all years to convert energy and peak demand savings on the customers' side of the meter to generation. The nominal demand and energy avoided cost values are adjusted by line loss rate. The source of the assumptions was Rates & Regulatory Planning Department at Duke Energy Florida.

10. Were avoided line losses captured in cost-effectiveness analyses? If so:

a. Please indicate whether higher loss rates were used for peak kW savings than for energy (kWh) savings. If higher loss rates were not used for peak savings than energy savings, please explain why.

b. Please indicate whether marginal (rather than average) loss rates were used. If marginal loss rates were not used, please explain why.

Response:
Yes.

a. The same line loss rates were used for peak kW savings and energy (kWh) savings. Higher line loss rates were not used for peak savings because DEF does not have the meter data necessary to support the determination of a different rate associated with peak kW savings. This is consistent with previous FEECA filings.

b. Average line losses were used. This is consistent with previous FEECA filings.

11. Please identify DEF's year by year assumptions regarding avoided ancillary services that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

Response:
DEF's cost effectiveness analysis does not include any avoided costs for ancillary services.

12. Please identify DEF's year by year assumptions regarding value of reduced risk that were used to assess cost-effectiveness of efficiency measures and programs, for as many future

years as have been forecast. Here, value of reduced risk includes, but is not limited to: reduced exposure to future fuel price volatility, future environmental regulation compliance costs, uncertainties of demand forecasts and related capital investments. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

Response:
Consistent with the Commission-accepted practice, DEF does not directly value risk or the reduction of risk in the evaluation of cost effectiveness for these measures and programs. DEF examines the range of cost and reliability outcomes for the proposed measures and programs through the evaluation of fuel sensitivities (high and low fuel price forecasts), carbon price sensitivities, and the examination of impacts on the generation reserve margin.

13. Please identify DEF's year by year assumptions regarding discount rate that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether the discount rate used is real or nominal. Please also identify the source of these assumptions.

Response:
The discount rate from the TYSP that was used to assess cost effectiveness was 6.83% which was used for all years. This nominal rate represents DEF's weighted cost of capital.

14. Please identify DEF's year by year assumptions regarding reduced credit and collection costs as result of customers who participate in efficiency programs being better able to meet future bill payment obligations, that were used to assess cost-effectiveness of efficiency measures and programs, for as many future years as have been forecast. Please specify whether each value is in nominal dollars or in real, inflation-adjusted dollars for a given year. Please also identify the source of these assumptions.

Response:
DEF's cost effectiveness analysis does not include any assumptions for reduced credit and collection costs.

15. Please provide DEF's loss of load probability (LOLP) for each year of the study period without any capacity expansion or DSM additions. Please identify any documents supporting these figures.

Response:
DEF has not prepared a utility loss of load probability (LOLP) study in the last several years. Loss of probability was not included in the study.

16. Please identify all market potential studies Mr. Herndon has worked on during the last decade.

Response:

Mr. Herndon has worked on the following market potential studies during the last decade:

1. Duke Energy Florida DSM Market Potential Study (2019)
2. Florida Power & Light DSM Market Potential Study (2019)
3. Florida Public Utilities Company DSM Market Potential Study (2019)
4. Gulf Power DSM Market Potential Study (2019)
5. JEA DSM Market Potential Study (2019)
6. Orlando Utilities Commission DSM Market Potential Study (2019)
7. Tampa Electric Company DSM Market Potential Study (2019)
8. Duke Energy North Carolina DSM Market Potential Study (2023)
9. Duke Energy South Carolina DSM Market Potential Study (2023)
10. Duke Energy North Carolina DSM Market Potential Study (2020)
11. Duke Energy South Carolina DSM Market Potential Study (2020)
12. Duke Energy North Carolina DSM Market Potential Study (2016)
13. Duke Energy South Carolina DSM Market Potential Study (2016)
14. Duke Energy Ohio DSM Market Potential Study (2018)
15. Duke Energy Ohio DSM Market Potential Study (2015)
16. Duke Energy Indiana DSM Market Potential Study (2021)
17. Duke Energy Indiana DSM Market Potential Study (2018)
18. El Paso Electric DSM Market Potential Study (2024)
19. Georgia Power Company Achievable Energy-Efficiency Potentials Assessment (2018)
20. Georgia Power Company Achievable Energy-Efficiency Potentials Assessment (2015)
21. Los Angeles Department of Water and Power Energy Efficiency Potential Study (2016)
22. Santee Cooper DSM Market Potential Study (2023)
23. Santee Cooper EE Market Potential Study (2019)

17. Of the market potential studies identified in Interrogatory 14, please indicate which were for electric utilities, which were for gas utilities, and which were for dual-fuel utilities.

Response:

DEF assumes that this Interrogatory was intended to refer to Interrogatory 16 and answers accordingly. To DEF's knowledge, Florida Public Utilities Company is a dual-fuel (electric and natural gas) utility, while JEA and LADWP are electric and water utilities. The remaining utilities identified in Interrogatory 16 are electric utilities.

18. Of the market potential studies identified in Interrogatory 14, please indicate whether or not each study excluded savings from measures that failed the participant test without financial incentives.

Response:

DEF assumes that this Interrogatory was intended to refer to Interrogatory 16 and answers accordingly. The screening criteria applied for each market potential study Resource Innovations conducts is individually determined based on the purpose of the study and the particular regulatory rules in each jurisdiction. The participant test was applied as a screening metric for cost effectiveness in the first seven studies listed in response to Interrogatory No. 16, which were developed for the 2019 FEECA Goals Proceedings. The remaining studies listed did not include the participant test as a screening metric.

19. Of the market potential studies identified in Interrogatory 14, please indicate whether or not each study excluded savings from measures with a payback of less than 2 years.

Response:
DEF assumes that this Interrogatory was intended to refer to Interrogatory 16 and answers accordingly. The screening criteria applied for each market potential study Resource Innovations conducts is individually determined based on the purpose of the study and the particular regulatory rules in each jurisdiction. The two-year payback criterion used in Florida to screen for free riders was included for the first seven studies listed in response to Interrogatory No. 16, which were developed for the 2019 FEECA Goals Proceedings. The remaining studies listed did not include two-year payback as a screening metric.

20. Please identify and explain all reasons which support the use of a two-year payback screen as the mechanism for addressing free ridership.

Response:
Rule 25-17.0021(3) requires consideration of free riders in each utilities' projections of numerical goals. The FPSC has used a payback screen of two years since 1991 as a proxy for free ridership. The two-year screen is intended to minimize the payment of incentives to customers for energy efficiency measures that they would do on their own without an incentive from the utility. DEF believes that it is reasonable to assume that customers will make rational economic decisions to implement measures with less than a two-year payback without incentives from the utility.

The issue was contested again in the 2014 goals proceeding and the Commission found that "No persuasive evidence was presented for the alternate methodologies suggested by the intervenors. We have consistently approved goals based on this methodology in our previous DSM goal setting proceedings. While the selection of the most appropriate approach to account for free riders as required by Rule 25-17.0021(3), F.A.C., is discretionary, the overwhelming evidence in this case suggests that the discretionary balance point continues to be a two-year payback period." (Docket No. 20130200, Order No. PSC-14-0696-FOF-EU).

21. Please explain whether DEF is aware of any other state or utility that eliminates all measures with a two-year payback from analyses of efficiency potential. If so, please identify the states and/or utilities, and please identify references for any states or utilities listed. Please identify any related energy efficiency market potential studies of which DEF is aware that rely on a two-year payback screen to address free ridership.

Response:
DEF is not aware of any such state or utility that eliminates all measures with a two-year payback, but likewise does not possess detailed knowledge of other states' regulatory framework for addressing DSM goals nor other utilities' analytical framework for addressing free ridership.

22. Please explain whether DEF believes that all measures with a payback of less than two years necessarily have very high free rider rates, regardless of the program design (target market, delivery strategy, incentive levels, etc.)? If so, what is the basis for that belief? Please explain in detail and provide references to all studies, reports and documents relied upon in forming that belief.

Response:
No, DEF does not believe that all measures with a payback of less than two years necessarily have very high free rider rates, regardless of the program design. Understanding consumers' actions and motivations regarding efficiency measures is complex. There are a number of factors that can influence the adoption of efficiency measures including, but not limited to, behavioral factors, lack of knowledge and awareness, and aesthetics and appearance. It is important to note that, DEF continues to believe that the two-year payback screen is an accepted and reasonable means to ensure that its proposed DSM goals appropriately consider free-ridership.

23. Please explain whether DEF believes that upfront cost is the only barrier to market adoption of all efficiency measures? If so, what is the basis for that belief? If not, please identify all other major market barriers that could lead to less than economically optimal levels of investment in energy efficiency measures.

Response:
No, it is not DEF's position that upfront cost is the only barrier to market adoption of all efficiency measures. There are a number of other factors that can impact the adoption of efficiency measures including, but not limited to, customer awareness and understanding, personal preferences, renter vs homeowner, other home improvements that take priority, alternative financial opportunities, time constraints, homeowner association restrictions, and lifestyle.

24. Please explain whether there a free rider rate above which DEF believes it would be inappropriate to run an efficiency program? If so, what is that free rider rate cut-off? Please

explain the basis for the value proposed. If not, why is it appropriate for a market potential study to exclude savings potential from measures that have short payback periods?

Response:
DEF does not screen its energy efficiency measures or programs by a free-ridership rate. DEF utilized the accepted approach of utilizing the two-year payback screen as a means to ensure the appropriate consideration of potential free-ridership from customers as a whole in the determination DSM Goals.

Generally, the longer the payback period that is used to screen measures for consideration of free ridership the fewer the number of measures that will exceed that payback period. Therefore, utilizing a longer payback period would likely screen out more measures and at some point would only allow a very limited number of measures to be considered for inclusion in programs used to determine the Company's DSM goals.

25. Please list all measures that were excluded through the economic analysis because they had a payback of less than two years, along with the Technical Potential (TP) associated with each of those measures. Please include the incremental annual and cumulative annual MWh for these measures in each year from 2020 to 2029.

Response:
The measure screening was done at the measure permutation level (i.e. by segment and vintage), and the measure permutations were not included because they had a payback of less than two years for the RIM and TRC scenarios.

The TP for measures not included in the economic analysis because they had a payback of less than two years was not calculated as part of the study, but TP results for individual measures have been provided in DEF's Response to FL Rising & LULAC's POD 1-2. Incremental annual and cumulative annual MWh for these measures is not applicable as these measures were not included in the measure adoption forecast analysis.

Please see document bearing Bates numbers 20240013-FLRISINGLULACROG1-00000003 through 20240013-FLRISINGROG1-00000035. The documents bearing Bates number 20240013-FLRISINGROG1-00000003 through 20240013-FLRISINGROG1-00000035 are confidential: redacted versions are attached hereto and unredacted copies have been submitted with the Florida Public Service Commission along with DEF's Notice of Intent to Request Confidential Classification dated May 15, 2024.

26. Please explain why cost-effectiveness from the Utility Cost Test (UCT) perspective was not analyzed, in addition to the RIM, TRC, and PCT tests.

Response:
Commission's rules nor the historic practice used to evaluate cost effectiveness of DSM measures and programs call for the calculation of the Utility Cost Test.

27. Please indicate which of the following utility system benefits were included under the RIM test: (1) Avoided energy costs; (2) Avoided capacity costs; (3) Avoided transmission and distribution system costs; (4) Avoided line losses; (5) Avoided future environmental compliance costs; (6) Avoided ancillary services costs; (7) The value of risk mitigation associated with efficiency measures (e.g. reduced risk to future fuel price volatility); and (8) Reduced credit and collection costs associated with efficiency making it easier for customers to afford and pay their electricity bills. If any of the above-listed utility system benefits were not included, please explain why.

Response:

Avoided energy costs, avoided capacity costs, avoided transmission and distribution system costs, and avoided line losses were included in the RIM evaluation. The remaining items were not included in the RIM evaluation because they are not consistent with the provisions of FPSC Rule 25-17.0021 which states that "The goals shall be based on the total cost-effective kilowatt and kilowatt-hour savings reasonably achievable through demand-side management". Additionally, the remaining values/benefits are not included in the defined benefits for the RIM test identified in "Cost Effectiveness Manual for Demand Side Management Programs" (adopted in Docket No. 891324-EU, Order No. 24745) and DEF does not have the necessary data or agreed upon methodologies to support the quantification of these items. The additional values beyond those include in the RIM analysis do not affect kilowatt and kilowatt hour savings.

28. Please indicate which of the following utility system benefits were included under the TRC test: (1) Avoided energy costs; (2) Avoided capacity costs; (3) Avoided transmission and distribution system costs; (4) Avoided line losses; (5) Avoided future environmental compliance costs; (6) Avoided ancillary services costs; (7) The value of risk mitigation associated with efficiency measures (e.g. reduced risk to future fuel price volatility); and (8) Reduced credit and collection costs associated with efficiency making it easier for customers to afford and pay their electricity bills. If any of the above-listed utility system benefits were not included, please explain why.

Response:

Avoided energy costs, avoided capacity costs, avoided transmission and distribution system costs, and avoided line losses were included in the TRC evaluation. The remaining items were not included in the TRC evaluation because they are not consistent with the provisions of FPSC Rule 25-17.0021 which states that "The goals shall be based on the total cost-effective kilowatt and kilowatt-hour savings reasonably achievable through demand-side management". These additional values do not affect kilowatt and kilowatt hour savings. Additionally, the remaining values are not included in the benefits for the TRC test identified in the "Cost Effectiveness Manual for Demand Side Management Programs",(Docket No. 891324-EU, Order No. 24745) and DEF does not have data nor agreed upon methodologies to support the quantification of these items.

29. Please indicate which of the following utility system benefits were included under the PCT test: (1) Avoided energy costs; (2) Avoided capacity costs; (3) Avoided transmission and distribution system costs; (4) Avoided line losses; (5) Avoided future environmental compliance costs; (6) Avoided ancillary services costs; (7) The value of risk mitigation associated with efficiency measures (e.g. reduced risk to future fuel price volatility); and (8) Reduced credit and collection costs associated with efficiency making it easier for customers to afford and pay their electricity bills. If any of the above-listed utility system benefits were not included, please explain why.

Response:
None of these benefits were included in the PCT test. Per the description of the benefits for the PCT test included in the Cost Effectiveness Manual for Demand Side Management Programs (Docket No. 891324-EU, Order No. 24745), the benefits for the PCT test include reductions in the participating customer's bill, incentives, and any applicable tax credits.

30. In DEF's view, would it be accurate to state that the RIM test addresses the perspective only of non-participants, as participants typically see bills go down even if rates go up slightly? If not, why not?

Response:
No. The Rate Impact Measure test is an indirect measure of the long-term impact of a program on customer rates. Measures that are cost effective under RIM test theoretically will reduce rates over time for all customers, both participants and non-participants.

31. Given that the TRC test is meant to address a societal perspective, please indicate whether any of the following societal benefits were included under that test: (1) The value of non-electric fuel savings (e.g. gas savings); (2) The value of water savings; (3) The value of any operation and maintenance cost savings; (4) The value of participant non-energy benefits; (5) The value to society of reduced emissions of greenhouse gases and/or other pollutants; or (6) The value to society of reduced health care costs. If any of the above-listed categories of societal benefits were not included in TRC analyses, please explain why not.

Response:
It is not appropriate to include externalities, also referred to as "non-energy benefits" (NEB), such as those listed by Florida Rising, in the TRC cost-effectiveness test. The TRC test can be described to be from a "societal perspective" because it combines participant costs with utility benefits and therefore is intended to represent an overall resource perspective. Therefore, inclusion of NEBs is inconsistent with the intent of the TRC test. The components included in the TRC test only include those that address electric impacts as listed in Commission's Cost-Effectiveness Manual and DEF's response to FL Rising & LULAC ROG 1-28.

32. Please explain how the load forecasting DEF provided to RI as part of the Technical Potential Study (TPS) considered adoption of naturally occurring (i.e., without a utility funded program) energy efficiency measures above baseline measure adoption by customers.

Response:
Please see document bearing Bates numbers 20240013-FLRISINGLULACROG1-00000036 through 20240013-FLRISINGLULACROG1-00000086. The documents bearing Bates numbers 20240036-FLRISINGROG1-0000XXXX through 20240013-FLRISINGROG1-00000086 are confidential: redacted versions are attached hereto and unredacted copies have been submitted with the Florida Public Service Commission along with DEF's Notice of Intent to Request Confidential Classification dated May 15, 2024.

33. Please explain whether these load forecasts assumed that there would be no additional adoption by customers of any energy efficiency measures above baseline code and standards. Please identify all documents supporting this explanation.

Response:
These load forecasts assumed that there would be additional adoption by customers of energy efficiency measures above baseline code and standards. Factors driving efficiency improvements include new building and end-use standards, the availability of more efficient technology options, and declining costs for high-efficient technologies. A significant amount of current and expected market conditions are incorporated: end-use number of units, saturation rates and estimated stock efficiency by building type (single family, multi-family and mobile homes).

34. Please provide a list of naturally occurring (i.e., without a utility funded program) energy efficiency measures above baseline measures that were considered in the load forecasting provided by you to RI as part of the TPS.

Response:
Please refer to attachments provided in FL Rising & LULAC ROG 1-32

35. The TPS prepared RI prepared for DEF states that "Resource Innovations verified with DEF's forecasting group that the baseline sales forecasts incorporated two known sources of naturally-occurring efficiency." Exhibit JH-4 at page 32. Please explain what is meant by a "known source." Please explain whether there were any unknown sources or any additional known sources, and please explain what those sources were.

Response:

As described in Section 5.1.1 of DEF's Technical Potential Study, the term "known sources" means a source of naturally-occurring efficiency that could impact the energy efficiency savings identified and are implicit and thus accounted for in the historical and forecasted load data. The "known sources" of naturally occurring efficiency referred to are: (a) the impacts of the Florida Building Code and of federal equipment standards (collectively, Codes and Standards) and (b) baseline measure adoption of already implemented Energy Efficiency (EE) technologies and measures. DEF is not aware of any unknown sources, but to the extent they exist, they would also be accounted for in the load data.

36. Is it your contention that the load forecasts utilized by RI in this proceeding assumed that your customers would adopt zero additional energy efficiency measures above baseline codes and standards over the next 10 years? If so, please explain all bases for this contention and identify all documents supporting this contention.

Response:
No.

37. If it is your contention that the load forecasts utilized by RI in this proceeding assumed that your customers would adopt zero additional energy efficiency measures above baseline codes and standards over the next 10 years, please explain whether you contend that zero additional energy efficiency measures above baseline codes and standards would be adopted in the absence of utility-sponsored DSM programs.

Response:
N/A

38. If you do not contend that zero additional energy efficiency measures above baseline codes and standards would be adopted in the absence of utility-sponsored DSM programs over the next 10 years, please explain whether you contend the load forecasts that you supplied to RI are accurate.

Response:
Yes, DEF contends the load forecasts supplied to RI are accurate.

39. Please provide the actual annual spending DEF has expended on demand-side management ("DSM") programs for the years 2016, 2017, and 2018. Please provide the annual spending for these years by DSM program, including a breakdown of the annual amount expended on rebates/incentives and non-rebate/non-incentive costs. Please include the portfolio level expenditures (i.e., spending not allocated to individual programs) for the years 2016, 2017, and 2018, and please include the total expenditures for these years.

Response:
Please see the following documents on the Florida Public Service Commission's Website that will show the annual spending for these years by DSM program, including a breakdown of the annual amount expended on rebates/incentives and non-rebate/non-incentive costs.

1. DEF's Petition of True-Up Amount and Direct Testimony of Lori J. Cross with attached exhibits for the period January 2016 through December 2016 in Docket No. 20170002-EG, Document No. 04460-17;

2. DEF's Petition of True-Up Amount and Direct Testimony of Lori J. Cross with attached exhibits for the period January 2017 through December 2017 in Docket No. 20180002-EG, Document No. 03355-2018;

3. DEF's Petition of True-Up Amount and Direct Testimony of Lori J. Cross with attached exhibits for the period January 2018 through December 2018, in Docket No. 20190002-EG, Document No. 04056-2019; The total annual DSM program costs are as follows:
2016 - $109,155,438
2017 - $107,890,962
2018 - $112,863,333

40. Please explain DEF's proposed levels of participation, budget, peak MW savings and energy savings for the program in each of the next 10 years. Please compare those proposed future levels to actual participation, spending and savings levels for DEF's low income programs over each of the past five years.

Response:
The proposed levels of participation, budget, peak MW savings and energy savings for each program for the next ten years are prepared and evaluated by each Program Manager who have detailed knowledge of the programs and years of industry experience.

Please see document bearing Bates numbers 20240013-FLRISINGLULACROG1-00000087 through 20240013-FLRISINGLULACROG1-00000092 for the comparison of levels for DEF's low-income programs

41. Please describe the methodology used to determine the number of eligible customers for your low income efficiency program(s) as presented in DEF's most recent Demand Side Management Annual Report.

Response:
The number of eligible customers for both the Neighborhood Energy Saver and the Low-Income Weatherization Assistance Program reported in the 2024 Annual Report was based on the number of eligible customers included in the 2020 Program Plan filing. The eligible

customers included in the Program Plan filing was based on the number of customer accounts in DEF's service territory with income levels at or below 200% of the poverty level based on 2010 U.S Census block data with an assumed growth rate of 2% annually.

42. For each month between January 2020 and the present please indicate: a) the total number of disconnect notices issued due to non-payment of bills, b) the actual number of disconnections,

Response:
DEF objects to Interrogatory No. 42 as irrelevant, immaterial, overburdensome, and not likely to lead to the discovery of admissible evidence.

43. Please indicate the annual cost of disconnections to the utility (both gross and net of corresponding fees collected from disconnected customers).

Response:
DEF objects to Interrogatory No. 43 as irrelevant, immaterial, overburdensome, and not likely to lead to the discovery of admissible evidence.

44. From January 2020 through the present, please indicate the total number of customers whose outstanding electric bills were deemed uncollectible, the total amount for each year in dollars, and the amount of uncollectible bill costs (direct and indirect) associated with this timeframe that the company has, or expects, to recover from its customers.

Response:
DEF objects to Interrogatory No. 44 as irrelevant, immaterial, overburdensome, and not likely to lead to the discovery of admissible evidence.

45. Please provide actual administrative costs, at the measure level, for each of your energy efficiency programs implemented from 2020-2024. For any costs that are not distinguished by measure, please explain why not, and provide the actual administrative costs at the most granular level possible.

Response:
DEF does not track or report administrative costs at the measure level. The most granular level DEF tracks administrative costs is at the program level.
Please see the table below which provides actual program administrative costs for years 2020-2023. 2024 actuals are not yet available.

Duke Energy Florida, LLC
Actual Energy Conservation Administrative Costs per Program

1	Program	2020	2021	2022	2023	2024
	Home Energy Check	3,419,336	3,439,044	3,277,640	3,870,881	NA
	Residential Incentive	1,906,558	1,449,214	1,381,305	1,592,346	NA
	Business Energy Check	528,093	504,111	449,898	536,216	NA
	Better Business (incl. C/I New Const)	1,139,989	1,130,532	1,118,711	1,170,934	NA
	Technology Development	496,504	444,012	261,504	377,765	NA
	Florida Custom Incentive Program	514,947	235,414	252,010	203,482	NA
	Interruptible Service	300,153	341,398	511,577	796,293	NA
	Curtailable Service	40,822	61,399	30,913	48,963	NA
	Load Management (Res & Comm)	30,727,709	4,365,060	4,171,122	4,349,356	NA
	Low Income Weatherization	102,976	110,718	171,679	156,996	NA
	Standby Generation	447,552	313,843	337,957	443,149	NA
	Qualifying Facility	3,259,637	850,524	894,795	676,851	NA
	Neighborhood Energy Saver	279,068	209,538	717,925	604,010	NA
	TOTAL PROGRAM COSTS	43,163,346	13,454,808	13,577,037	14,827,243	NA

1 - 2024 Actuals not yet available

46. Please indicate if these same administrative costs were used as assumptions for the corresponding measures in the DSM/EE potential study on which your 2025-2034 proposed goals are based. If not, please indicate why not and provide the administrative cost assumptions that were used in the potential study and the basis for those assumptions.

Response:
Yes. DEF used the average of the actual administrative costs to develop the administrative cost per kwh assumption for the residential energy efficiency measures and for the commercial energy efficiency measures.

47. Referring to page 19 of witness Duff's direct testimony, which energy efficiency measures does Duke provide incentives for under the Residential Incentive Program? Please provide a list of measures and their respective incentives.

Response:
Customers who use over 600 kWh receive credits shown in the box below. If a customer uses less, their credits are prorated.

Residential Load Management	
Measure	Incentive
Res Pool Pump	$2.5 per month
Res Water Heating	$3.5 per month
Res HVAC (cl/ht)	$5 March-Nov/$8 Dec-Feb
Connected Strip DHW	$3.5 per month
Connected HP DHW	$3.5 per month

48. Refer to page 19 of witness Duff's direct testimony regarding DEF's load control program.

a. What "selected customer electrical equipment" is included in DEF's load control program?

b. Please explain the terms of DEF's load control operations, including the maximum length of time that a device can be prevented from operating both continuously and cumulatively over course the course of a daily peak.

c. Please detail the form and size of the incentive a customer receives for participating in this program.

Response:

a. The following appliances may be eligible for DEF's residential load control program: Water Heater, Central Electric Cooling System, Central Electric Heating System, Swimming Pool Pump
b. Please see page 2 RATE SCHEDULE RSL-1 under Interruption Schedules.
c. Please see page 2 RATE SCHEDULE RSL-1 under Load Management Credit Amounts. Both can be find on the Duke Energy website: Index of Rate Schedules - Duke Energy (duke-energy.com)

49. Refer to page 20 of witness Duff's direct testimony regarding DEF's customer "Assistance Kits."

a. What specific energy saving measures are included in the Assistance Kits for calendar years 2022-25?

b. Does DEF consider recipients of these kits to be free riders? Why or why not?

Response:

a.

HEC - Single-Family Assistance Kits	
Item Description	**Qty.**
Tier 1 Smart Strip	1
Pipe Insulation 3 Foot Pc.	2
9 Watt LED A-Lamp, Dim, 25,000Hrs	5
Foam Tape Rolls	2
Switch & Outlet Gasket Pack 10/ea.	1
Hot Water Gauge	1
Bimetal Refrigerator Thermometer	1
Dual Thread Faucet Aerator 1.0GPM	2
Earth Massage Showerhead 1.5GPM	1
Pipe Sealing Tape	1

HEC - Multi-Family Assistance Kits	
Item Description	**Qty.**
9 Watt LED A-Lamp	4
Bimetal Refrigerator Freezer Thermometer	1
Stick On Room Thermometer	1
Tier 1 Smart Strip	1
3/4" Pile Insulation	2

b. Assistance Kits recipients are not considered to be a free rider, as the recipient has not previously participated in energy efficiency and must complete a Home Energy Check (HEC) prior to receiving kit. Additionally, the HEC kit is directly tied to participating in HEC, meaning that they could not receive the kit absent participating in the program. The kits actively promote energy efficiency through the kit measures, serving as a gateway for a customer to make behavior modification and/or equipment upgrades through Home Energy Improvement measures, as detailed within the recommendations as noted in the HEC report.

50. Refer to page 21 of witness Duff's direct testimony regarding DEF's efforts to increase access to energy efficiency for renters. Has DEF considered approaches to prevent participating property owners from using DEF's investment in efficiency upgrades as a pretext to increase rents? If so, how does DEF plan to protect tenants from upward rent pressure? If not, why not?

Response:
DEF is not legally permitted to prevent property owners from increasing rents to tenants regardless of participation in efficiency upgrades or otherwise. DEF plans to educate and provide opportunities and incentives to property owners to install efficiency upgrades which allows energy savings to be realized by renters/tenants.

51. Please refer to the table at on page 22 of witness Duff's direct testimony. For each of DEF's existing and proposed programs, please provide a list of all the measures that comprise the totals included under the columns for "EXISTING/KEEP," "NEW," and "DROP," respectively.

Response:

Please see document bearing Bates numbers 20240013-FLRISINGLULACROG1-00000093 through 20240013-FLRISINGLULACROG1-00000096.

52. Please provide the following information regarding DEF's curtailable and interruptible classes (e.g., CS, CS-2, CS-3, CST-2, CST-3, IS, IS-2, IST-2, SS-2, SS-3, etc.).

a. Please provide a list of events where DEF's curtailable/interruptible customers have been curtailed/interrupted in each of the past five years including the number of customers involved, duration of the event, reduction in kW and kWh for each customer, savings realized, incentives or compensation paid and calculation of payments, and average and per customer percent of total load represented by each event.

b. Please forecast the same information requested for in subpart a) for the years 2025-2034, or for as many years as possible.

c. Please explain whether there is a limit on the number of times (or hours) DEF's curtailable/interruptible customers can be curtailed/interrupted.

d. Please provide the compensation customers receive for being curtailable or interruptible. Please provide the calculation to support this compensation.

e. Please explain how much (if any) notice curtailable/interruptible customers receive before curtailment/interruption.

f. Please provide how many of DEF's curtailable/interruptible customers have backup generation.

g. Please provide the total impact on demand (in MW) due to DEF's ability to curtail/interrupt customers.

h. Please provide the total cost savings that come from DEF's interruptible/curtailable load being interruptible/curtailable.

i. Please explain whether DEF's interruptible/curtailable customers have any option to refuse being interrupted/curtailed. If they do have the option, please explain whether this has occurred and under what circumstances.

j. Please explain whether DEF's interruptible/curtailable customers, even if they do not have the option to refuse being interrupted/curtailed, can take power anyway. If they can take power anyway, please explain whether this has occurred and under what circumstances.

Response:

a. No system events requiring customer to be curtailed or interrupted have taken place in the last five years.

b. There is no event forecast for years 2025-2034.

c. There is no limit on the number of times a customer can be interrupted or curtailed on the CS-2, CS-3, CST-2, CST-3, IS-2, IST-2, SS-2, SS-3 Tariffs.

d. Customers receive a base credit of $7.72 per kW of On-Peak demand for the Interruptible (IS-2, IST-2) and Curtailable (CS-2, CS-3, CST-2, CST-3) programs. The level of compensation is set forth in the tariff and was approved by the Commission in the 2021 Settlement Agreement. SS-2 customer capacity credit shall be the greater of 1; $1.170 per kW times the Specified Standby Capacity, or 2; The sum of the daily maximum 30-minute kW demand of actual standby use occurring during On-peak periods times $0.557/kW times the appropriate Billing Month Factor shown in part 3.B as set forth in the tariff and was approved by the commission in the 2021 Settlement Agreement. SS-3 customer capacity credit shall be the greater of 1; $0.877 per kW times the Specified Standby Capacity, or 2; The sum of the daily maximum 30-minute kW demand of actual standby use occurring during On-peak periods times $0.418/kW times the appropriate Billing Month Factor shown in part 3.B as set forth in the tariff and was approved by the commission in the 2021 Settlement Agreement.

e. Notifications are provided fifteen minutes before interruption or curtailment. Every Large Account Manager informs their respective customers about the Duke Energy notification system.

f. 102 locations out of the 178 customers participating in Curtailable and Interruptible programs have backup generation; however, this only accounts for 14% of the curtailable/interruptible load enrolled in the program.

g. Interruptible/Curtailable peak load reduction capability is 316MW in 2023 winter.

h. DEF projects that the total savings from the Interruptible/Curtailable and Standby Generation programs will have a CPVRR value of $29.9 million in the years 2023-2027.

i. Curtailable (CS-2, CS-3, CST-2, CST-3, SS-3) customers have the option to not participate in a declared event because the curtailment is done manually by the customer, but penalties apply for non-compliant load. Historically, all Curtailable customers have participated. Interruptible (IS-2, IST-2, SS-2) customers do not have an opt-out capability because Duke Energy has controls to stop the flow of energy to their locations.

j. There is no option for Interruptible (IS-2, IST-2, SS-2) customers because Duke Energy has controls to stop the flow of energy to their locations. As explained above, Curtailable Service (CS-2, CS-3, CST-2, CST-3, SS-3) customers do have the option to refuse curtailment.

DECLARATION

I sponsored the answer to Interrogatory No. 16-19, 25, 31 and 35 from Florida Rising and LULAC's First Set of Interrogatories to Duke Energy Florida, LLC (Nos. 1-52) in Docket No. 20240013-EG, and the responses are true and correct based on my personal knowledge.

Jim Herndon, Vice President, Advisory Services, Resource Innovations

Date: 5/15/24

DEF's Response to FL Rising & LULAC's ROG 1 (1-52)
Q7

REDACTED
DOCUMENTS BEARING BATES NUMBER 20240013-FLRISINGLULACROG1-00000001 IS REDACTED IN ITS ENTIRETY

DEF's Response to FL Rising & LULAC's ROG 1 (1-52)
Q8

REDACTED
DOCUMENTS BEARING BATES NUMBER 20240013-FLRISINGLULACROG1-00000002 IS REDACTED IN ITS ENTIRETY

DEF's Response to FL Rising & LULAC's ROG 1 (1-52)
Q25

REDACTED
DOCUMENTS BEARING BATES NUMBER 20240013-FLRISINGLULACROG1-00000003 THROUGH 20240013-FLRISINGROG1-00000035 ARE REDACTED IN THEIR ENTIRETY

DEF's Response to FL Rising & LULAC's ROG 1 (1-52)
Q32

REDACTED
DOCUMENTS BEARING BATES NUMBER 20240013-FLRISINGLULACROG1-00000036 THROUGH 20240013-FLRISINGROG1-00000086 ARE REDACTED IN THEIR ENTIRETY

DEF's Response to FL Rising LULAC's ROG 1 (1-52)
Q40
Page 1 of 6

	2019							2020						
DSM Residential Low Income Programs	PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS	PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS
Low Income Weatherization	500	373	0.5	0.2	0.4	$ 354,813	$ 277,206	244	139	0.2	0.1	0.2	$ 318,990	$ 193,529
Neighborhood Energy Saver	19,500	19,494	6.3	4.0	9.9	$ 2,994,366	$ 3,686,476	5,000	950	1.7	1.1	1.8	$ 2,562,059	$ 1,146,564
Total Residential Non-Disp	**20,000**	**19,867**	**6.8**	**4.3**	**10.3**	**$ 3,349,179**	**$ 3,963,682**	**5,244**	**1,089**	**1.9**	**1.2**	**2.0**	**$ 2,881,049**	**$ 1,340,093**
Annual FEECA RES Goal @meter			3.9	1.6	1.4					10.2	5.0	3.2		
Comparison Over/(Under)			5.2	0.4	8.9					(8.3)	(3.8)	(1.2)		
Annual FEECA COMM Projected Participation	20,000							5,244						
Comparison Over/(Under) Actual Participation		(133)							(4,155)					
Annual FEECA COMM Projected Costs						$ 3,349,179							$ 2,881,049	
Comparison Over/(Under) Actual Costs							$ 614,503							$ (1,540,956)
***Projected Participation = Homes**														

2021							2022							2023						
PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS	PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS	PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS
244	133	0.1	0.1	0.2	$ 367,239	$ 192,023	244	134	0.1	0.0	0.2	$ 507,281	$ 252,087	244	184	0.2	0.1	0.4	$ 481,087	$ 261,798
5,000	537	0.3	0.2	0.8	$ 4,950,451	$ 524,447	5,000	4,771	8.5	5.7	15.6	$ 6,274,910	$ 5,288,234	5,000	5,846	9.5	6.3	17.6	$ 5,817,805	$ 6,626,891
5,244	**670**	**0.4**	**0.3**	**0.9**	**$ 5,317,691**	**$ 716,470**	**5,244**	**4,905**	**8.6**	**5.8**	**15.8**	**$ 6,782,191**	**$ 5,540,321**	**5,244**	**6,030**	**9.7**	**6.5**	**18.0**	**$ 6,298,892**	**$ 6,888,688**
		9.0	4.5	2.2					8.0	4.1	1.4					7.3	3.8	7.9		
		(8.5)	(4.2)	(1.2)					0.6	1.7	14.4					2.4	2.7	10.1		
5,244							5,244							5,244						
	(4,574)							(339)							786					
					$ 5,317,691							$ 6,782,191							$ 6,298,892	
						$ (4,601,220)							$ (1,241,871)							$ 589,796

2024							2025							2026						
PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS	PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS	PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS
244	n/a	0.5	0.4	0.9	343,500	n/a	256	n/a	0.5	0.7	1.6	$ 428,769	n/a	256	n/a	0.5	0.7	1.6	$ 428,769	n/a
5,000	n/a	9.7	6.5	17.7	5,840,943	n/a	5,250	n/a	8.6	7.2	18.0	$ 4,548,105	n/a	5,250	n/a	8.6	7.2	18.0	$ 4,548,105	n/a
5,244	**-**	**10.3**	**6.9**	**18.6**	**$ 6,184,442**	**$ -**	**5,506**	**-**	**9.1**	**7.9**	**19.6**	**$ 4,976,874**	**$ -**	**5,506**	**-**	**9.1**	**7.9**	**19.6**	**$ 4,976,874**	**$ -**
		10.3	6.9	18.6					9.1	7.9	19.6					9.1	7.9	19.6		
		-	-	-					-	-	-					-	-	-		
5,244							5,506							5,506						
	(5,244)							(5,506)							(5,506)					
					$ 6,184,442							$ 4,976,874							$ 4,976,874	
						$ (6,184,442)							$ (4,976,874)							$ (4,976,874)

2027							2028							2029						
PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS	PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS	PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS
256	n/a	0.5	0.7	1.6	$ 431,626	n/a	256	n/a	0.5	0.7	1.6	$ 431,626	n/a	256	n/a	0.5	0.7	1.6	$ 431,626	n/a
5,250	n/a	9.0	7.5	18.8	$ 4,748,042	n/a	5,250	n/a	9.0	7.5	18.8	$ 4,748,042	n/a	5,250	n/a	9.0	7.5	18.8	$ 4,748,042	n/a
5,506	**-**	**9.5**	**8.3**	**20.4**	**$ 5,179,668**	**$ -**	**5,506**	**-**	**9.5**	**8.3**	**20.4**	**$ 5,179,668**	**$ -**	**5,506**	**-**	**9.5**	**8.3**	**20.4**	**$ 5,179,668**	**$ -**
		9.5	8.3	20.4					9.5	8.3	20.4					9.5	8.3	20.4		
		-	-	-					-	-	-					-	-	-		
5,506							5,506							5,506						
	(5,506)							(5,506)							(5,506)					
					$ 5,179,668							$ 5,179,668							$ 5,179,668	
						$ (5,179,668)							$ (5,179,668)							$ (5,179,668)

2030							2031							2032						
PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS	PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS	PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS
256	n/a	0.5	0.7	1.6	$ 443,215	n/a	256	n/a	0.5	0.7	1.6	$ 443,225	n/a	256	n/a	0.5	0.7	1.6	$ 443,235	n/a
5,250	n/a	9.0	7.5	18.8	$ 4,748,231	n/a	5,250	n/a	9.0	7.5	18.8	$ 4,748,420	n/a	5,250	n/a	9.0	7.5	18.8	$ 4,748,610	n/a
5,506	**-**	**9.5**	**8.3**	**20.4**	**$ 5,191,446**	**$ -**	**5,506**	**-**	**9.5**	**8.3**	**20.4**	**$ 5,191,646**	**$ -**	**5,506**	**-**	**9.5**	**8.3**	**20.4**	**$ 5,191,845**	**$ -**
		9.5	8.3	20.4					9.5	8.3	20.4					9.5	8.3	20.4		
		-	0.0	-					-	-	-					-	-	-		
5,506							5,506							5,506						
	(5,506)							(5,506)							(5,506)					
					$ 5,191,446							$ 5,191,646							$ 5,191,845	
						$ (5,191,446)							$ (5,191,646)							$ (5,191,845)

2033							2034						
PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS	PROJ PART	ACTUAL PART	WMW	SMW	GWH	PROJ COSTS	ACTUAL COSTS
256	n/a	0.4	0.7	1.5	$ 418,544	n/a	256	n/a	0.4	0.7	1.5	$ 418,554	n/a
5,250	n/a	9.0	7.5	18.8	$ 4,748,799	n/a	5,250	n/a	9.0	7.5	18.8	$ 4,748,988	n/a
5,506	**-**	**9.4**	**8.2**	**20.3**	**$ 5,167,343**	**$ -**	**5,506**	**-**	**9.4**	**8.2**	**20.3**	**$ 5,167,543**	**$ -**
		9.4	8.2	20.3					9.4	8.2	20.3		
		-	-	-					-	-	-		
5,506							5,506						
	(5,506)							(5,506)					
					$ 5,167,343							$ 5,167,543	
						$ (5,167,343)							$ (5,167,543)

DEF CURRENT AND PROPOSED MEASURE LIST FOR GOALS DOCKET					
Program Name	**Current Measures - 2020 - 2024**	**Proposed Measures - 2025-2034**	**Existing/Keep**	**New**	**DROP**
Home Energy Check	HEHC - Single Family EE Kit.xlsx	HEHC - Single Family EE Kit.xlsx			
Home Energy Check	M13W: V-Seal Adhesive Weatherstrip 17Ft. Roll	M13W: V-Seal Adhesive Weatherstrip 17Ft. Roll	x		
Home Energy Check	55111-10/ea.: Switch & Outle Gasket Pack 10/ea.	55111-10/ea.: Switch & Outle Gasket Pack 10/ea.	x		
Home Energy Check	AMC109G: Hot Water Gauge	AMC109G: Hot Water Gauge	x		
Home Energy Check	Digital Refigerator Thermometer	Digital Refigerator Thermometer	x		
Home Energy Check	9W LED	9W LED	x		
Home Energy Check	Bathroom Faucet Aerators	Bathroom Faucet Aerators	x		
Home Energy Check	Low Flow Showerhead	Low Flow Showerhead	x		
Home Energy Check	HEHC - Multi Family EE Kit.xlsx	FL_ HEHC - Multi Family EE Kit.xlsx			
Home Energy Check	9W LED	9W LED	x		
Home Energy Check	Refrigerator Thermometer	Refrigerator Thermometer	x		
Home Energy Check	Switch Plate Thermometer	Switch Plate Thermometer	x		
Home Energy Check	HEHC Low Income Asst Kit - SF and MF	HEHC Low Income Asst Kit - SF and MF			
Home Energy Check	9W LEDs	9W LEDs	x		
Home Energy Check	Smart Power Strip	Smart Power Strip	x		
Home Energy Check	Hot Water Pipe Insulation	Hot Water Pipe Insulation	x		
Home Energy Check		Increased Engagement		x	
Residential Incentive Program	14 SEER ASHP MF or MH - Elec Resistance Htg	ASHP - ENERGY STAR/CEE Tier 1: 16 SEER/15.2 SEER2 (from elect resistance)	x		
Residential Incentive Program	Ceiling Insulation (R12 - R38)	Ceiling Insulation(R2 to R38)	x		
Residential Incentive Program	Energy Star Windows	Energy Star Windows	x		
Residential Incentive Program	14 SEER ASHP Base Electric Resistance Heating	ASHP - ENERGY STAR/CEE Tier 1: 16 SEER/15.2 SEER2 (from elect resistance), 9.HSPF	x		
Residential Incentive Program	15 SEER Air Source Heat Pump				x
Residential Incentive Program	Supplemental 14 SEER ASHP base electric resistance heating				x
Residential Incentive Program	16 SEER Central AC	Central AC - ENERGY STAR/CEE Tier 1: 16 SEER/15.2 SEER2	x		
Residential Incentive Program	Ceiling Insulation (R2 to R38)	Ceiling Insulation(R2 to R38)	x		
Residential Incentive Program	Ceiling Insulation (R19 to R38)	Ceiling Insulation(R19 to R38)	x		
Residential Incentive Program	Duct Repair	Duct Repair_SF	x		
Residential Incentive Program		Duct Repair_MH	x		
Residential Incentive Program	Duct Test First Unit	Duct Test First Unit	x		
Residential Incentive Program	Duct Test Additional Unit	Duct Test Additional Unit	x		
Residential Incentive Program	15.2 SEER2 Central AC				x
Residential Incentive Program	15.2 SEER2 ASHP Base Electric Resistance Htg	ASHP - CEE Tier 2: 16.8 SEER/16 SEER2; 9.0 HSPF (from elec resistance)	x		
Residential Incentive Program	15.2 SEER2 ASHP MF or MH - Elec Resist Htg	ASHP - ENERGY STAR/CEE Tier 1: 16 SEER/15.2 SEER2 (from elect resistance), 9.HSPF	x		
Residential Incentive Program	15.2 SEER2 Air Source Heat Pump	ASHP - ENERGY STAR/CEE Tier 1: 16 SEER/15.2 SEER2, 9.0 HSPF	x		
Residential Incentive Program		Ceiling Insulation (R11 to R38)_SF		x	
Residential Incentive Program		Heat Pump Water Heater 50 Gallons-ENERGY STAR		x	
Residential Incentive Program		Heat Pump Water Heater 80 Gallons-ENERGY STAR		x	
New Builder Construction-MF		Ceiling Insulation (R11 to R38)_MF	x		
New Builder Construction-MF		Ceiling Insulation (R2 to R38)_MF	x		
New Builder Construction-MF		New Construction - Whole Home Improvements - Tier 1		x	
New Builder Construction-MF		ASHP - ENERGY STAR/CEE Tier 1: 16 SEER/15.2 SEER2 (from elect resistance), 9.HSPF		x	
Neighborhood Energy Saver	14 SEER ASHP Base Electric Resistance Heating		x		x
Neighborhood Energy Saver	15 SEER Air Source Heat Pump		x		x

DEF CURRENT AND PROPOSED MEASURE LIST FOR GOALS DOCKET					
Program Name	**Current Measures - 2020 - 2024**	**Proposed Measures - 2025-2034**	**Existing/Keep**	**New**	**DROP**
Neighborhood Energy Saver	16 SEER Central AC		x		x
Neighborhood Energy Saver	Ceiling Insulation (R2 to R38)	Ceiling Insulation(R2 to R38)	x		
Neighborhood Energy Saver	Ceiling Insulation (R19 to R38)	Ceiling Insulation(R19 to R38)	x		
Neighborhood Energy Saver	Duct Repair	Duct Repair	x		
Neighborhood Energy Saver	Central AC Tune Up	Central AC Tune Up	x		
Neighborhood Energy Saver	Heat Pump Tune Up	Heat Pump Tune Up	x		
Neighborhood Energy Saver	Energy Star Room AC	Energy Star Room AC	x		
Neighborhood Energy Saver	**Whole House Measure *see below***	**Whole House Measure *see below***			
Neighborhood Energy Saver	NE_SF_Smart Power Strip	Smart Power Strip	x		
Neighborhood Energy Saver	NE_SF_Air Sealing-Infiltration Control **see NES tab	Air Sealing Infiltration Control	x		
Neighborhood Energy Saver	NE_SF_Water Heater Blanket	Water Heater Blanket	x		
Neighborhood Energy Saver	NE_SF_Low Flow Showerhead	Low Flow Showerhead	x		
Neighborhood Energy Saver	NE_SF_Hot Water Pipe Insulation	Hot Water Pipe Insulation	x		
Neighborhood Energy Saver	NE_SF_Faucet Aerator	Bathroom Faucet Aerators	x		
Neighborhood Energy Saver	NT_SF_LED - 9W	LED - 9W_Halogen Baseline	x		
Neighborhood Energy Saver	NT_SF_LED Specialty Lamps-5W Chandelier	LED Specialty Lamps-5W Chandelier	x		
Neighborhood Energy Saver	Window Caulking	Window Caulking	x		
Neighborhood Energy Saver		Weather Stripping		x	
Neighborhood Energy Saver		Filter Whistle		x	
Neighborhood Energy Saver		Smart Thermostat		x	
Low Income Weatherization	Smart Power Strip	Smart Power Strip	x		
Low Income Weatherization	Air Sealing Infiltration Control	Air Sealing-Infiltration Control	x		
Low Income Weatherization	Water Heater Blanket	Water Heater Blanket	x		
Low Income Weatherization	Low Flow Showerhead	Low Flow Showerhead	x		
Low Income Weatherization	Hot Water Pipe Insulation	Hot Water Pipe Insulation	x		
Low Income Weatherization	LED Specialty Lamps - 5W Chandelier	LED Specialty Lamps-5W Chandelier	x		
Low Income Weatherization	Energy Star Refrigerator	Energy Star Refrigerator	x		
Low Income Weatherization	SF New Construction 17 SEER HP & EW				x
Low Income Weatherization	MF New Construction 17 SEER HP & EW				x
Low Income Weatherization	15 SEER Air Source Heat Pump				x
Low Income Weatherization	16 SEER Central AC	Central AC - CEE Tier 2: 16.8 SEER/16 SEER2	x		
Low Income Weatherization	Ceiling Insulation (R2 to R38)	Ceiling Insulation(R2 to R38)	x		
Low Income Weatherization	Ceiling Insulation (R19 to R38)	Ceiling Insulation(R19 to R38)	x		
Low Income Weatherization	Duct Repair	Duct Repair	x		
Low Income Weatherization	Central AC Tune Up	Central AC Tune Up	x		
Low Income Weatherization	Heat Pump Tune Up	Heat Pump Tune Up	x		
Low Income Weatherization	9W LED	LED - 9W_Halogen Baseline	x		
Low Income Weatherization	Faucet Aerators	Bathroom Faucet Aerators	x		
Low Income Weatherization	14 SEER ASHP Base Electric Resistance Heating				x
Low Income Weatherization		120v Heat Pump Water Heater 50 Gallons		x	
Business Energy Check	LED Flood Light	LED Flood Light	x		
Business Energy Check	Smart Strip	Smart Strip	x		
Business Energy Check	Faucet Aerator	Faucet Aerator	x		

DEF CURRENT AND PROPOSED MEASURE LIST FOR GOALS DOCKET					
Program Name	**Current Measures - 2020 - 2024**	**Proposed Measures - 2025-2034**	**Existing/Keep**	**New**	**DROP**
Smart $aver Business	Ceiling Insulation (R2 to R38)	Ceiling Insulation(R2 to R38)	x		
Smart $aver Business	Duct Sealing Repair	Commercial Duct Sealing	x		
Smart $aver Business	High Efficiency Chiller	High Efficiency Chiller	x		
Smart $aver Business	High Efficiency PTAC	High Efficiency PTAC	x		
Smart $aver Business	High Efficiency PTHP	High Efficiency PTHP	x		
Smart $aver Business	Wall Insulation	Wall Insulation	x		
Smart $aver Business	BB - Demand Controlled Ventilation-no electric heat	Demand Controlled Ventilation-no electric heat	x		
Smart $aver Business	BB - Demand Controlled Ventilation-electric heat	Demand Controlled Ventilation-electric heat	x		
Smart $aver Business	BB -Duct Repair - non ducted electric heat				x
Smart $aver Business	BB -Duct Repair - ducted electric heat				x
Smart $aver Business	BB -Energy Recovery Ventilation System-no electric heat	Energy Recovery Ventilation System (ERV)	x		
Smart $aver Business	BB -Energy Recovery Ventilation System-electric heat	Energy Recovery Ventilation System (ERV)	x		
Smart $aver Business	BB - C/I Small Heat Pumps - SEER 15 (Replacing Heat Pump)				x
Smart $aver Business	BB - C/I Small Heat Pumps - SEER 15 (Replacing Resistance Heat)				x
Smart $aver Business	BB - Single Package Vertical Units Replacing Straight Cool				x
Smart $aver Business	BB - Single Package Vertical Heat Pumps - replacing SPVHP				x
Smart $aver Business	BB - Large Unitary AC Units (>65,000 Btu/h)				x
Smart $aver Business	BB - Large Heat Pumps (>65,000 Btu/h)	High Efficiency DX	x		
Smart $aver Business	BB - Variable Refrigerant Flow A/C				x
Smart $aver Business	BB - Variable Refrigerant Flow Heat Pump				x
Smart $aver Business	BB - Duct Test First Unit	BB - Duct Test First Unit	x		
Smart $aver Business	BB - Duct Test Additional Units	BB - Duct Test Additional Units	x		
Smart $aver Business		Smart Thermostat		x	
Smart $aver Business		Cool Roof		x	
Smart $aver Business		HE DX Less than 5.4 Tons Elect Heat		x	
Smart $aver Business		Water Source Heat Pump, 2.5 Tons, 17.4 EER, 4.4 COP		x	
Smart $aver Business		Infiltration Reduction - Air Sealing		x	
Smart $aver Business		DX Coil Cleaning 4 Ton HVAC unit		x	
Smart $aver Business		VFD on Cooling Tower Fans 7.5HP		x	
Smart $aver Business		Advanced Rooftop Controller 5 ton HVAC		x	
Smart $aver Business		HE DX 5.4-11.25 Tons Elect Heat (8.5 ton Unit)		x	
Smart $aver Business		VFD on HVAC Pump 7.5 HP		x	
Smart $aver Business		Ductless Mini-Split AC (4 ton Unit)		x	
Smart $aver Business		Ductless Mini-Split 2 ton HP, 17 SEER, 9.5 HSPF (24,000 BTU) 800 Square foot		x	
Smart $aver Business		Occupancy Sensors, Ceiling Mounted		x	
Smart $aver Business		LED Exterior Wall Packs - One 35W LED Wall Pack		x	
Smart $aver Business		Refrigerated Display Case LED Lighting - 60" Refrigerated Case LED Strip		x	
Smart $aver Business		LED Linear - Fixture Replacement - 2x4 LED Troffer		x	
Smart $aver Business		LED Exit Sign - One 5W Single-Sided LED Exit Sign		x	
Smart $aver Custom	Thermal Energy Storage (FL Custom)	Thermal Energy Storage (FL Custom)	x		
Smart $aver Custom	Chiller maintenance (FL Custom)	Chiller maintenance (FL Custom)	x		
Residential Load Management	Res Pool Pump	Res Pool Pump	x		
Residential Load Management	Res Water Heating	Res Water Heating	x		
Residential Load Management	Res HVAC	Res HVAC	x		

DEF CURRENT AND PROPOSED MEASURE LIST FOR GOALS DOCKET					
Program Name	**Current Measures - 2020 - 2024**	**Proposed Measures - 2025-2034**	**Existing/Keep**	**New**	**DROP**
Residential Load Management		Connected Strip DHW		x	
Residential Load Management		Connected HP DHW		x	

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March 3, 2015

VIA: ELECTRONIC MAIL

Mr. Jim Dean, Director
Division of Economics
Florida Public Service Commission
Room 225E – Gerald L. Gunter Building
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Tampa Electric Company's Summary
of 2014 DSM Program Accomplishments

Dear Mr. Dean:

Submitted herewith is Tampa Electric Company's Summary of 2014 Demand Side Management Program Accomplishments that are being submitted in compliance with Rule 25-17.0021(5), F.A.C.

Sincerely,

James D. Beasley

JDB/pp
Enclosure

cc: Paula K. Brown (w/o enc.)

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

TAMPA ELECTRIC COMPANY
SUMMARY OF 2014
DEMAND SIDE MANAGEMENT PROGRAM ACCOMPLISHMENTS

Tampa Electric received approval of its 2010-2019 Demand Side Management ("DSM") goals in Docket No. 080409-EG, Order No. PSC-09-0855-FOF-EG, issued December 30, 2009. The company received approval of its 2010-2019 DSM Plan on December 20, 2010 in Docket No. 100159-EG, Order No. PSC-10-0736-PAA-EG.

In 2014, Tampa Electric was successful in achieving its annual and cumulative DSM goals. It achieved these goals through a total incremental participant level in 2014 of 38,618 residential, commercial and industrial customers. On a cumulative basis, 175,357 residential, commercial and industrial customers participated in Tampa Electric's DSM programs over the first five years of the 2010-2019 DSM plan.

The company's annual residential activities achieved 16.9 MW of winter demand reduction, 13.0 MW of summer demand reduction and 44.3 GWh of annual energy reduction. The company's commercial and industrial activities achieved 9.7 MW of winter demand reduction, 12.6 MW of summer demand reduction and 22.1 GWh of annual energy reduction.

On a cumulative basis, Tampa Electric's residential activities achieved 62.6 MW of winter demand reduction, 52.2 MW of summer demand reduction and 128.2 GWh of annual energy reduction. Additionally, the company's commercial and industrial activities achieved 38.5 MW of winter demand reduction, 53.2 MW of summer demand reduction and 105.2 GWh of annual energy reduction. All savings identified are at the generator.

The company continued its advertising campaign of bill inserts, print media and television advertisements. The continued main emphases of the advertising campaign were the delivery of energy audits available to the residential, commercial and industrial marketplace, heightened awareness of the residential price responsive load management and overall energy education and awareness to identify opportunities for residential, commercial and industrial customers to participate in programs aimed at meeting their energy efficiency requirements.

For 2015, Tampa Electric remains committed to the cost-effective delivery of DSM programs, which will become evident in the upcoming DSM plan which will support the recent goals for the 2015–2024 DSM goals that were approved in Docket No. 130201-EU, Order No. PSC-14-0696-FOF-EU, issued December 16, 2014. Additionally, the company will continue its focus on offering low income initiatives and bringing greater awareness and education to customers concerning the efficient use of energy.

The attached pages present individual program participation levels and summaries that demonstrate the company achieved its annual combined and cumulative DSM goals as described in Rule 25-17, (4), Florida Administrative Code.

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL ALTERNATE AUDIT (aka Walk-Thru Audit or EA Free)
Program Start Date: May 1981
Reporting Period: Annual 2014

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)
1	609,633	609,633	8,000	1.3%	10,291	10,291	1.7%	2,291
2	594,938	594,938	17,000	2.9%	8,652	18,943	3.2%	1,943
3	603,594	603,594	26,500	4.4%	7,908	26,851	4.4%	351
4	617,750	617,750	36,250	5.9%	7,743	34,594	5.6%	(1,656)
5	623,846	623,846	46,250	7.4%	9,520	44,114	7.1%	(2,136)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.05	0.05	476.00	510.75
Winter kW Reduction	0.07	0.08	666.40	715.05
Annual kWh Reduction	544	574	5,178,880	5,468,897

Utility Cost per Installation ($):	225
Total Program Cost of the Utility ($000):	2,138.9
Net Benefits of Measures Installed During Reporting Period ($000):	(1,874.2)

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TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL RCS AUDIT [1]
Program Start Date: January 1981
Reporting Period: Annual 2014

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)
1	609,633	609,633	1	0.0%	0	0	0.0%	(1)
2	594,938	594,938	2	0.0%	0	0	0.0%	(2)
3	603,594	603,594	3	0.0%	0	0	0.0%	(3)
4	617,750	617,750	4	0.0%	0	0	0.0%	(4)
5	623,846	623,846	5	0.0%	0	0	0.0%	(5)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

Utility Cost per Installation ($): 0
Total Program Cost of the Utility ($000): 0.0
Net Benefits of Measures Installed During Reporting Period ($000): (0.0)

[1] aka COMPUTER-ASSISTED EA $15

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TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL CUSTOMER ASSISTED AUDITS [1]
Program Start Date: June 1996
Reporting Period: Annual 2014

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)
1	609,633	609,633	1,765	0.3%	2,072	2,072	0.3%	307
2	594,938	594,938	3,585	0.6%	1,449	3,521	0.6%	(64)
3	603,594	603,594	5,410	0.9%	1,065	4,586	0.8%	(824)
4	617,750	617,750	7,345	1.2%	680	5,266	0.9%	(2079)
5	623,846	623,846	9,390	1.5%	1,067	6,333	1.0%	(3057)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.04	0.04	42.68	45.80
Winter kW Reduction	0.06	0.06	64.02	68.69
Annual kWh Reduction	510	539	544,170	574,644

Utility Cost per Installation ($):	36
Total Program Cost of the Utility ($000):	38.4
Net Benefits of Measures Installed During Reporting Period ($000):	17.5

[1] Includes on-line and phone audits

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TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL NEW CONSTRUCTION
Program Start Date: August 2000
Reporting Period: Annual 2014

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)
1	609,633	7,431	150	2.0%	0	0	0.0%	(150)
2	594,938	7,252	350	4.8%	1,745	1,745	24.1%	1,395
3	603,594	7,357	600	8.2%	1,720	3,465	47.1%	2,865
4	617,750	7,530	900	12.0%	2,381	5,846	77.6%	4,946
5	623,846	7,604	1,300	17.1%	2,277	8,123	106.8%	6,823

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.83	0.89	1,889.91	2,027.87
Winter kW Reduction	1.00	1.07	2,277.00	2,443.22
Annual kWh Reduction	2,750	2,904	6,261,750	6,612,408

Utility Cost per Installation ($):	798
Total Program Cost of the Utility ($000):	1,816.7
Net Benefits of Measures Installed During Reporting Period ($000):	537.4

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TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: ENERGY PLANNER
Program Start Date: September 2007
Reporting Period: Annual 2014

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)
1	609,633	350,539	1,300	0.4%	674	674	0.2%	(626)
2	594,938	341,415	2,700	0.8%	489	1,163	0.3%	(1,537)
3	603,594	345,904	4,150	1.2%	109	1,272	0.4%	(2,878)
4	617,750	616,478	5,700	0.9%	243	1,515	0.2%	(4,185)
5	623,846	622,331	7,450	1.2%	1,007	2,522	0.4%	(4,928)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	2.01	2.16	2,026.08	2,173.99
Winter kW Reduction	3.13	3.36	3,155.94	3,386.32
Annual kWh Reduction	242	256	243,694	257,341

Utility Cost per Installation [(1)] ($):	1,438
Total Program Cost of the Utility ($000):	3,626.6
Net Benefits of Measures Installed During Reporting Period ($000):	420.4

[(1)] Program expenses are for total program participation. Participant costs are based on total program expenses and total program participation.

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL CEILING INSULATION
Program Start Date: November 1982
Reporting Period: Annual 2014

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)
1	609,633	489,159	1,550	0.3%	2,126	2,126	0.4%	576
2	594,938	472,338	3,150	0.7%	4,626	6,752	1.4%	3,602
3	603,594	478,494	4,800	1.0%	11,367	18,119	3.8%	13,319
4	617,750	485,909	6,500	1.3%	10,059	28,178	5.8%	21,678
5	623,846	493,313	8,200	1.7%	5,880	34,058	6.9%	25,858

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.26	0.28	1,522.92	1,634.09
Winter kW Reduction	0.37	0.40	2,187.36	2,347.04
Annual kWh Reduction	848	895	4,986,240	5,265,469

Utility Cost per Installation ($):	225
Total Program Cost of the Utility ($000):	1,322.7
Net Benefits of Measures Installed During Reporting Period ($000):	2,492.0

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TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL DUCT REPAIR
Program Start Date: September 1992
Reporting Period: Annual 2014

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)
1	609,633	465,923	9,000	1.9%	3,907	3,907	0.8%	(5,093)
2	594,938	447,321	18,250	4.1%	4,215	8,122	1.8%	(10,128)
3	603,594	455,669	27,750	6.1%	2,272	10,394	2.3%	(17,356)
4	617,750	471,768	37,500	7.9%	1,708	12,102	2.6%	(25,398)
5	623,846	478,428	47,000	9.8%	1,706	13,808	2.9%	(33,192)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.17	0.18	291.73	313.02
Winter kW Reduction	0.22	0.23	370.20	397.23
Annual kWh Reduction	298	315	508,388	536,858

Utility Cost per Installation ($):	241
Total Program Cost of the Utility ($000):	410.4
Net Benefits of Measures Installed During Reporting Period ($000):	200.1

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TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL HEATING AND COOLING
Program Start Date: July 2000
Reporting Period: Annual 2014

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)
1	609,633	609,633	2,000	0.3%	5,926	5,926	1.0%	3,926
2	594,938	594,938	4,500	0.8%	4,501	10,427	1.8%	5,927
3	603,594	603,594	7,500	1.2%	3,138	13,565	2.2%	6,065
4	617,750	617,750	10,600	1.7%	3,844	17,409	2.8%	6,809
5	623,846	623,846	13,600	2.2%	4,292	21,701	3.5%	8,101

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.10	0.11	437.78	469.74
Winter kW Reduction	0.23	0.24	969.99	1,040.80
Annual kWh Reduction	399	421	1,712,508	1,808,408

Utility Cost per Installation ($):	304
Total Program Cost of the Utility ($000):	1,304.5
Net Benefits of Measures Installed During Reporting Period ($000):	167.5

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TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL WINDOW REPLACEMENT
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	609,633	608,657	700	0.1%	1,349	1,349	0.2%	649
2	594,938	593,589	1,500	0.3%	2,055	3,404	0.6%	1,904
3	603,594	600,190	2,300	0.4%	1,136	4,540	0.8%	2,240
4	617,750	613,210	3,100	0.5%	1,362	5,902	1.0%	2,802
5	623,846	617,944	3,900	0.6%	1,619	7,521	1.2%	3,621

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.72	0.77	1,165.68	1,250.77
Winter kW Reduction	0.39	0.42	631.41	677.50
Annual kWh Reduction	1,091	1,152	1,766,329	1,865,243

Utility Cost per Installation ($):	429
Total Program Cost of the Utility ($000):	695.2
Net Benefits of Measures Installed During Reporting Period ($000):	950.7

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TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL WINDOW FILM
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	609,633	604,817	500	0.1%	547	547	0.1%	47
2	594,938	594,391	1,250	0.2%	417	964	0.2%	(286)
3	603,594	602,630	2,050	0.3%	411	1,375	0.2%	(675)
4	617,750	616,375	2,950	0.5%	386	1,761	0.3%	(1,189)
5	623,846	622,085	3,950	0.6%	397	2,158	0.3%	(1,792)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.34	0.36	134.98	144.83
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	672	710	266,784	281,724

Utility Cost per Installation ($):	364
Total Program Cost of the Utility ($000):	144.5
Net Benefits of Measures Installed During Reporting Period ($000):	13.1

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TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL WALL INSULATION
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	609,633	609,625	12	0.0%	12	12	0.0%	0
2	594,938	594,918	24	0.0%	3	15	0.0%	(9)
3	603,594	603,571	36	0.0%	13	28	0.0%	(8)
4	617,750	617,714	48	0.0%	13	41	0.0%	(7)
5	623,846	623,797	60	0.0%	14	55	0.0%	(5)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.35	0.38	4.90	5.26
Winter kW Reduction	1.08	1.16	15.12	16.22
Annual kWh Reduction	1,330	1,404	18,620	19,663

Utility Cost per Installation ($):	512
Total Program Cost of the Utility ($000):	7.2
Net Benefits of Measures Installed During Reporting Period ($000):	1.8

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TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
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Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL WEATHERIZATION AND AGENCY OUTREACH
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	609,633	121,927	500	0.4%	43	43	0.0%	(457)
2	594,938	118,988	3,000	2.5%	305	348	0.3%	(2,652)
3	603,594	120,371	6,000	5.0%	3,387	3,735	3.1%	(2,265)
4	617,750	119,815	13,750	11.5%	4,048	7,783	6.5%	(5,967)
5	623,846	200,166	22,750	11.4%	7,859	15,642	7.8%	(7,108)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.24	0.26	1,894.02	2,032.28
Winter kW Reduction	0.34	0.36	2,648.48	2,841.82
Annual kWh Reduction	1,222	1,290	9,603,698	10,141,505

Utility Cost per Installation ($):	379
Total Program Cost of the Utility ($000):	2,979.0
Net Benefits of Measures Installed During Reporting Period ($000):	119.6

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TAMPA ELECTRIC COMPANY
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Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL ELECTRONICALLY COMMUTATED MOTORS
Program Start Date: November 2011
Reporting Period: Annual 2014

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)
1	609,633	609,633	500	0.1%	0	0	0.0%	(500)
2	594,938	594,938	1,222	0.2%	0	0	0.0%	(1,222)
3	603,594	603,594	2,378	0.4%	0	0	0.0%	(2,378)
4	617,750	617,750	4,878	0.8%	1	1	0.0%	(4,877)
5	623,846	623,846	8,128	1.3%	0	1	0.0%	(8,127)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.14	0.15	-	-
Winter kW Reduction	0.13	0.14	-	-
Annual kWh Reduction	352	372	0	0

Utility Cost per Installation ($):	0
Total Program Cost of the Utility ($000):	0.0
Net Benefits of Measures Installed During Reporting Period ($000):	(0.0)

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TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL HVAC RE-COMMISSIONING
Program Start Date: November 2011
Reporting Period: Annual 2014

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)
1	609,633	609,633	500	0.1%	0	0	0.0%	(500)
2	594,938	594,938	4,400	0.7%	0	0	0.0%	(4,400)
3	603,594	603,594	11,400	1.9%	671	671	0.1%	(10,729)
4	617,750	617,079	20,400	3.3%	206	877	0.1%	(19,523)
5	623,846	622,969	31,400	5.0%	78	955	0.2%	(30,445)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.14	0.15	10.92	11.72
Winter kW Reduction	0.13	0.14	10.14	10.88
Annual kWh Reduction	355	375	27,690	29,241

Utility Cost per Installation ($):	206
Total Program Cost of the Utility ($000):	16.1
Net Benefits of Measures Installed During Reporting Period ($000):	1.9

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
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Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL ENERGY EDUCATION OUTREACH
Program Start Date: May 2011
Reporting Period: Annual 2014

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)
1	609,633	609,633	500	0.1%	0	0	0.0%	(500)
2	594,938	594,938	4,500	0.8%	26	26	0.0%	(4,474)
3	603,594	603,594	11,000	1.8%	434	460	0.1%	(10,540)
4	617,750	617,750	20,000	3.2%	1,597	2,057	0.3%	(17,943)
5	623,846	623,846	31,000	5.0%	1,124	3,181	0.5%	(27,819)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.02	0.02	22.48	24.12
Winter kW Reduction	0.03	0.03	33.72	36.18
Annual kWh Reduction	255	269	286,620	302,671

Utility Cost per Installation ($):	70
Total Program Cost of the Utility ($000):	78.5
Net Benefits of Measures Installed During Reporting Period ($000):	(12.7)

TAMPA ELECTRIC COMPANY
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Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RESIDENTIAL PV
Program Start Date: April 2011
Reporting Period: Annual 2014

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)
1	609,633	609,633	60	0.0%	0	0	0.0%	(60)
2	594,938	594,938	120	0.0%	49	49	0.0%	(71)
3	603,594	603,545	180	0.0%	63	112	0.0%	(68)
4	617,750	617,638	240	0.0%	56	168	0.0%	(72)
5	623,846	623,678	300	0.0%	60	228	0.0%	(72)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	4.93	5.28	295.52	317.10
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	13,868	14,645	832,109	878,707

Utility Cost per Installation ($):	19,565
Total Program Cost of the Utility ($000):	1,173.9
Net Benefits of Measures Installed During Reporting Period ($000):	0.0

TAMPA ELECTRIC COMPANY
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Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RENEWABLE - SOLAR WATER HEATING
Program Start Date: April 2011
Reporting Period: Annual 2014

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)
1	609,633	609,633	150	0.0%	0	0	0.0%	(150)
2	594,938	594,938	300	0.1%	46	46	0.0%	(254)
3	603,594	603,548	450	0.1%	25	71	0.0%	(379)
4	617,750	617,679	600	0.1%	49	120	0.0%	(480)
5	623,846	623,726	750	0.1%	54	174	0.0%	(576)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.30	0.32	16.20	17.38
Winter kW Reduction	0.61	0.65	32.94	35.34
Annual kWh Reduction	2376	2,509	128,304	135,489

Utility Cost per Installation ($):	1,408
Total Program Cost of the Utility ($000):	76.0
Net Benefits of Measures Installed During Reporting Period ($000):	0.0

TAMPA ELECTRIC COMPANY
UNDOCKETED
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FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RENEWABLE - LOW-INCOME WATER HEATING
Program Start Date: April 2011
Reporting Period: Annual 2014

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)
1	609,633	121,927	5	0.0%	0	0	0.0%	(5)
2	594,938	118,988	10	0.0%	2	2	0.0%	(8)
3	603,594	120,717	15	0.0%	4	6	0.0%	(9)
4	617,750	123,544	20	0.0%	3	9	0.0%	(11)
5	623,846	124,760	25	0.0%	4	13	0.0%	(12)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.30	0.32	1.20	1.29
Winter kW Reduction	0.61	0.65	2.44	2.62
Annual kWh Reduction	2376	2,509	9,504	10,036

Utility Cost per Installation ($):	5,288
Total Program Cost of the Utility ($000):	21.2
Net Benefits of Measures Installed During Reporting Period ($000):	0.0

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: FREE COMMERCIAL/INDUSTRIAL AUDIT
Program Start Date: July 1983
Reporting Period: Annual 2014

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)
1	75,507	75,507	1,100	1.5%	652	652	0.9%	(448)
2	72,126	72,126	2,300	3.2%	505	1,157	1.6%	(1,143)
3	72,653	72,653	3,600	5.0%	587	1,744	2.4%	(1,856)
4	71,795	71,795	4,900	6.8%	897	2,641	3.7%	(2,259)
5	82,118	82,118	6,200	7.6%	713	3,354	4.1%	(2,846)

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.10	0.11	71.30	76.29
Winter kW Reduction	0.09	0.10	64.17	68.66
Annual kWh Reduction	748	787	533,324	561,057

Utility Cost per Installation ($):	281
Total Program Cost of the Utility ($000):	200.2
Net Benefits of Measures Installed During Reporting Period ($000):	104.4

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TAMPA ELECTRIC COMPANY
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DSM ACCOMPLISHMENTS
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Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMPREHENSIVE COMMERCIAL/INDUSTRIAL AUDIT
Program Start Date: May 1981
Reporting Period: Annual 2014

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)
1	75,507	75,507	1	0.0%	0	0	0.0%	(1)
2	72,126	72,126	2	0.0%	0	0	0.0%	(2)
3	72,653	72,653	3	0.0%	0	0	0.0%	(3)
4	71,795	71,795	4	0.0%	3	3	0.0%	(1)
5	82,118	82,118	5	0.0%	3	6	0.0%	1

Annual Demand and Energy Savings	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.10	0.11	0.30	0.32
Winter kW Reduction	0.09	0.10	0.27	0.29
Annual kWh Reduction	748	787	2,244	2,361

Utility Cost per Installation ($):	8,308
Total Program Cost of the Utility ($000):	24.9
Net Benefits of Measures Installed During Reporting Period ($000):	(1.2)

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL DUCT REPAIR
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	75,507	74,270	950	1.3%	4,725	4,725	6.4%	3,775
2	72,126	65,395	2,350	3.6%	2,655	7,380	11.3%	5,030
3	72,653	65,273	3,850	5.9%	643	8,023	12.3%	4,173
4	71,795	63,772	5,350	8.4%	476	8,499	13.3%	3,149
5	82,118	73,619	6,950	9.4%	172	8,671	11.8%	1,721

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.24	0.26	41.32	44.21
Winter kW Reduction	0.00	0.00	0.29	0.31
Annual kWh Reduction	1,170	1,231	201,198	211,660

Utility Cost per Installation ($):	432
Total Program Cost of the Utility ($000):	74.3
Net Benefits of Measures Installed During Reporting Period ($000):	2,874.5

[1] Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
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Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL WINDOW FILM
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	75,507	75,477	25	0.0%	9	9	0.0%	(16)
2	72,126	72,087	55	0.1%	11	20	0.0%	(35)
3	72,653	72,633	85	0.1%	16	36	0.0%	(49)
4	71,795	71,759	115	0.2%	12	48	0.1%	(67)
5	82,118	82,070	150	0.2%	22	70	0.1%	(80)

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	17.54	18.77	385.83	412.84
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	12,945	13,618	284,789	299,598

Utility Cost per Installation ($):	3,210
Total Program Cost of the Utility ($000):	70.6
Net Benefits of Measures Installed During Reporting Period ($000):	(20.1)

[1] Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL CEILING INSULATION
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	75,507	75,503	5	0.0%	5	5	0.0%	0
2	72,126	72,117	10	0.0%	32	37	0.1%	27
3	72,653	72,616	15	0.0%	79	116	0.2%	101
4	71,795	71,679	20	0.0%	92	208	0.3%	188
5	82,118	81,910	25	0.0%	37	245	0.3%	220

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.12	1.19	41.27	44.16
Winter kW Reduction	0.02	0.02	0.63	0.67
Annual kWh Reduction	4,395	4,623	162,605	171,060

Utility Cost per Installation ($):	2,056
Total Program Cost of the Utility ($000):	76.1
Net Benefits of Measures Installed During Reporting Period ($000):	68.6

[1] Savings from measured data

TAMPA ELECTRIC COMPANY
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FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL WALL INSULATION
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	75,507	75,507	1	0.0%	0	0	0.0%	(1)
2	72,126	72,126	2	0.0%	1	1	0.0%	(1)
3	72,653	72,652	3	0.0%	1	2	0.0%	(1)
4	71,795	71,793	4	0.0%	0	2	0.0%	(2)
5	82,118	82,116	5	0.0%	0	2	0.0%	(3)

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.27	0.29	0.00	0.00
Winter kW Reduction	0.01	0.01	0.00	0.00
Annual kWh Reduction	1,444	1,519	0	0

Utility Cost per Installation ($):	0
Total Program Cost of the Utility ($000):	0.0540
Net Benefits of Measures Installed During Reporting Period ($000):	0.0

[1] Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
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FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL/INDUSTRIAL EFFICIENT MOTORS
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	75,507	15,101	10	0.1%	49	49	0.3%	39
2	72,126	14,425	30	0.2%	59	108	0.7%	78
3	72,653	14,531	60	0.4%	1	109	0.8%	49
4	71,795	14,359	95	0.7%	4	113	0.8%	18
5	82,118	16,424	145	0.9%	4	117	0.7%	(28)

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1.79	1.92	7.16	7.66
Winter kW Reduction	1.42	1.52	5.68	6.08
Annual kWh Reduction	1,964	2,066	7,857	8,266

Utility Cost per Installation ($):	313
Total Program Cost of the Utility ($000):	1.3
Net Benefits of Measures Installed During Reporting Period ($000):	0.8

[1] Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL COOLING - DX
Program Start Date: July 2000
Reporting Period: Annual 2014

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)
1	75,507	75,507	195	0.3%	101	101	0.1%	(94)
2	72,126	72,126	395	0.5%	195	296	0.4%	(99)
3	72,653	72,653	620	0.9%	38	334	0.5%	(286)
4	71,795	71,795	850	1.2%	197	531	0.7%	(319)
5	82,118	82,118	1,085	1.3%	375	906	1.1%	(179)

Annual Demand and Energy Savings [(1)]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.82	0.88	307.17	328.67
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	1,549	1,630	581,039	611,253

Utility Cost per Installation ($):	297
Total Program Cost of the Utility ($000):	111.4
Net Benefits of Measures Installed During Reporting Period ($000):	22.5

(1) Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL COOLING - PTAC
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	75,507	75,507	50	0.1%	8	8	0.0%	(42)
2	72,126	72,126	100	0.1%	0	8	0.0%	(92)
3	72,653	72,653	150	0.2%	20	28	0.0%	(122)
4	71,795	71,795	195	0.3%	0	28	0.0%	(167)
5	82,118	82,118	235	0.3%	0	28	0.0%	(207)

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.39	0.42	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	814	856	0	0

Utility Cost per Installation ($):	0
Total Program Cost of the Utility ($000):	0.0
Net Benefits of Measures Installed During Reporting Period ($000):	1.3

[1] Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL LIGHTING - CONDITIONED SPACE
Program Start Date: January 1991
Reporting Period: Annual 2014

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)
1	75,507	75,507	30	0.0%	114	114	0.2%	84
2	72,126	72,126	70	0.1%	111	225	0.3%	155
3	72,653	72,653	110	0.2%	58	283	0.4%	173
4	71,795	71,795	150	0.2%	48	331	0.5%	181
5	82,118	82,118	195	0.2%	112	443	0.5%	248

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	43.68	46.74	4892.28	5234.74
Winter kW Reduction	34.01	36.39	3809.21	4075.85
Annual kWh Reduction	86,632	91,137	9,702,822	10,207,369

Utility Cost per Installation ($):	4,929
Total Program Cost of the Utility ($000):	552.1
Net Benefits of Measures Installed During Reporting Period ($000):	(261.3)

[1] Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL LIGHTING - UNCONDITIONED SPACE
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	75,507	75,507	10	0.0%	15	15	0.0%	5
2	72,126	72,126	25	0.0%	35	50	0.1%	25
3	72,653	72,653	40	0.1%	18	68	0.1%	28
4	71,795	71,795	60	0.1%	22	90	0.1%	30
5	82,118	82,118	72	0.1%	21	111	0.1%	39

Annual Demand and Energy Savings [(1)]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	46.93	50.22	985.62	1,054.61
Winter kW Reduction	46.93	50.22	985.62	1,054.61
Annual kWh Reduction	350,921	369,168	7,369,333	7,752,538

Utility Cost per Installation ($):	11,320
Total Program Cost of the Utility ($000):	237.7
Net Benefits of Measures Installed During Reporting Period ($000):	(17.0)

(1) Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL LOAD MANAGEMENT- CYCLIC
Program Start Date: January 1988
Reporting Period: Annual 2014

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)
1	75,507	75,501	1	0.0%	0	0	0.0%	(1)
2	72,126	72,126	2	0.0%	0	0	0.0%	(2)
3	72,653	72,653	3	0.0%	0	0	0.0%	(3)
4	71,795	71,795	4	0.0%	0	0	0.0%	(4)
5	82,118	82,118	5	0.0%	0	0	0.0%	(5)

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

Utility Cost per Installation [2] ($):	0
Total Program Cost of the Utility ($000):	10.4
Net Benefits of Measures Installed During Reporting Period ($000):	0.0

[1] Savings from measured data
[2] Program expenses are for total program participation. Participant costs are based on total program expenses and total program participation.

TAMPA ELECTRIC COMPANY
UNDOCKETED
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Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL LOAD MANAGEMENT- EXTENDED
Program Start Date: January 1988
Reporting Period: Annual 2014

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)
1	75,507	75,507	1	0.0%	0	0	0.0%	(1)
2	72,126	72,126	2	0.0%	0	0	0.0%	(2)
3	72,653	72,653	3	0.0%	0	0	0.0%	(3)
4	71,795	70,000	4	0.0%	0	0	0.0%	(4)
5	82,118	70,001	5	0.0%	0	0	0.0%	(5)

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

Utility Cost per Installation [2] ($):	0
Total Program Cost of the Utility ($000):	0.0
Net Benefits of Measures Installed During Reporting Period ($000):	0.0

[1] Savings from measured data
[2] Program expenses are for total program participation. Participant costs are based on total program expenses and total program participation.

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: STANDBY GENERATOR
Program Start Date: January 1991
Reporting Period: Annual 2014

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)
1	75,507	249	1	0.4%	7	7	2.8%	6
2	72,126	231	2	0.9%	6	13	5.6%	11
3	72,653	226	4	1.8%	2	15	6.6%	11
4	71,795	221	6	2.7%	6	21	9.5%	15
5	82,118	249	9	3.6%	2	23	9.2%	14

Annual Demand and Energy Savings [1]	Per Installation		Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	485.50	519.49	971.00	1,038.97
Winter kW Reduction	485.50	519.49	971.00	1,038.97
Annual kWh Reduction	48,550	51,075	97,100	102,149

Utility Cost per Installation [2] ($):	30,209
Total Program Cost of the Utility ($000):	2,869.9
Net Benefits of Measures Installed During Reporting Period ($000):	2,443.1

[1] Savings from measured data

[2] Program expenses are for total program participation. Participant costs are based on total program expenses and total program participation.

TAMPA ELECTRIC COMPANY
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Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: CONSERVATION VALUE
Program Start Date: April 1991
Reporting Period: Annual 2014

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)
1	75,507	75,507	1	0.0%	0	0	0.0%	(1)
2	72,126	72,126	3	0.0%	0	0	0.0%	(3)
3	72,653	72,653	6	0.0%	7	7	0.0%	1
4	71,795	71,795	10	0.0%	0	7	0.0%	(3)
5	82,118	82,118	14	0.0%	2	9	0.0%	(5)

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	244.50	261.62	489.00	523.23
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	25,000	26,300	50,000	52,600

Utility Cost per Installation [2] ($):	64,791
Total Program Cost of the Utility ($000):	129.6
Net Benefits of Measures Installed During Reporting Period ($000):	102.9

[1] Savings from measured data
[2] Incentives include payments that are split due to size of projects.

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
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Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL DEMAND RESPONSE
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	75,507	15,101	1	0.0%	0	0	0.0%	(1)
2	72,126	14,425	1	0.0%	18	18	0.1%	17
3	72,653	14,513	1	0.0%	7	25	0.2%	24
4	71,795	14,334	1	0.0%	7	32	0.2%	31
5	82,118	16,392	2	0.0%	19	51	0.3%	49

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
	142.86	152.86	2,714.34	2,904.34
Summer kW Reduction	142.86	152.86	2,714.34	2,904.34
Winter kW Reduction	10,714	11,271	203,566	214,151
Annual kWh Reduction				
			158,164	
Utility Cost per Installation [2] ($):			3,005.1	
Total Program Cost of the Utility ($000):			5,912.0	
Net Benefits of Measures Installed During Reporting Period ($000):				

[1] Savings from measured data

[2] Program expenses are for total program participation. Participant costs are based on total program expenses and total program participation.

TAMPA ELECTRIC COMPANY
UNDOCKETED
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Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL CHILLERS
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	75,507	3,775	10	0.3%	4	4	0.1%	(6)
2	72,126	3,606	21	0.6%	3	7	0.2%	(14)
3	72,653	3,633	33	0.9%	4	11	0.3%	(22)
4	71,795	3,590	46	1.3%	8	19	0.5%	(27)
5	82,118	4,106	60	1.5%	10	29	0.7%	(31)

Annual Demand and Energy Savings [(1)]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	15.30	16.37	152.99	163.70
Winter kW Reduction	11.22	12.00	112.17	120.02
Annual kWh Reduction	30,777	32,378	307,774	323,778

Utility Cost per Installation ($):	2,819
Total Program Cost of the Utility ($000):	28.2
Net Benefits of Measures Installed During Reporting Period ($000):	164.8

(1) Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
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FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL OCCUPANCY SENSORS
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	75,507	75,507	30	0.0%	45	45	0.1%	15
2	72,126	72,126	65	0.1%	34	79	0.1%	14
3	72,653	72,653	100	0.1%	11	90	0.1%	(10)
4	71,795	71,795	140	0.2%	37	127	0.2%	(13)
5	82,118	82,118	175	0.2%	48	175	0.2%	0

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	10.41	11.14	499.86	534.85
Winter kW Reduction	8.11	8.68	389.19	416.43
Annual kWh Reduction	9,660	10,162	463,659	487,769

Utility Cost per Installation ($):	774
Total Program Cost of the Utility ($000):	37.1
Net Benefits of Measures Installed During Reporting Period ($000):	(72.0)

[1] Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
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Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL/INDUSTRIAL REFRIGERATION (ANTI-CONDENSATE)
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	75,507	7,551	1	0.0%	0	0	0.0%	(1)
2	72,126	7,213	2	0.0%	0	0	0.0%	(2)
3	72,653	7,265	4	0.1%	0	0	0.0%	(4)
4	71,795	7,180	6	0.1%	0	0	0.0%	(6)
5	82,118	8,212	9	0.1%	0	0	0.0%	(9)

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

Utility Cost per Installation ($):	0
Total Program Cost of the Utility ($000):	0.054
Net Benefits of Measures Installed During Reporting Period ($000):	0.0

[1] Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL WATER HEATING
Program Start Date: March 2008
Reporting Period: Annual 2014

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)
1	75,507	75,507	2	0.0%	0	0	0.0%	(2)
2	72,126	72,126	4	0.0%	0	0	0.0%	(4)
3	72,653	72,653	6	0.0%	0	0	0.0%	(6)
4	71,795	71,795	9	0.0%	0	0	0.0%	(9)
5	82,118	82,118	12	0.0%	0	0	0.0%	(12)

Annual Demand and Energy Savings [(1)]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

Utility Cost per Installation ($):	0
Total Program Cost of the Utility ($000):	0.319
Net Benefits of Measures Installed During Reporting Period ($000):	0.0

(1) Savings from measured data

TAMPA ELECTRIC COMPANY
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FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: RENEWABLE - PV FOR SCHOOLS
Program Start Date: April 2011
Reporting Period: Annual 2014

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)
1	250	250	1	0.4%	0	0	0.0%	(1)
2	292	292	2	0.7%	1	1	0.3%	(1)
3	282	282	3	1.1%	1	2	0.7%	(1)
4	304	304	4	1.3%	1	3	1.0%	(1)
5	342	342	5	1.5%	1	4	1.2%	(1)

Annual Demand and Energy Savings [(1)]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	5.60	5.99	5.60	5.99
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	15,768	16,588	15,768	16,588

Utility Cost per Installation ($):	161,614
Total Program Cost of the Utility ($000):	161.6
Net Benefits of Measures Installed During Reporting Period ($000):	0.0

(1) Savings from measured data

TAMPA ELECTRIC COMPANY
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FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: Commercial PV
Program Start Date: April 2011
Reporting Period: Annual 2014

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)
1	75,507	75,507	20	0.0%	0	0	0.0%	(20)
2	72,126	72,126	40	0.1%	8	8	0.0%	(32)
3	72,653	72,645	60	0.1%	7	15	0.0%	(45)
4	71,795	71,780	80	0.1%	9	24	0.0%	(56)
5	82,118	82,094	100	0.1%	1	25	0.0%	(75)

Annual Demand and Energy Savings [(1)]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	9.89	10.58	9.89	10.58
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	15,681	16,497	15,681	16,497

Utility Cost per Installation ($):	22,123
Total Program Cost of the Utility ($000):	22.1
Net Benefits of Measures Installed During Reporting Period ($000):	0.0

(1) Savings from measured data

TAMPA ELECTRIC COMPANY
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FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL ROOF INSULATION
Program Start Date: May 2011
Reporting Period: Annual 2014

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)
1	75,507	75,507	5	0.0%	0	0	0.0%	(5)
2	72,126	72,126	10	0.0%	0	0	0.0%	(10)
3	72,653	72,653	15	0.0%	0	0	0.0%	(15)
4	71,795	71,795	20	0.0%	0	0	0.0%	(20)
5	82,118	82,118	25	0.0%	6	6	0.0%	(19)

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.31	0.33	1.85	1.98
Winter kW Reduction	0.11	0.11	0.64	0.68
Annual kWh Reduction	550	579	3,301	3,473

Utility Cost per Installation ($):	0
Total Program Cost of the Utility ($000):	1.63
Net Benefits of Measures Installed During Reporting Period ($000):	-0.2

[1] Savings from measured data

TAMPA ELECTRIC COMPANY
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Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL LIGHTING - EXIT SIGNS.
Program Start Date: May 2011
Reporting Period: Annual 2014

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)
1	75,507	75,507	212	0.3%	0	0	0.0%	(212)
2	72,126	72,126	712	1.0%	20	20	0.0%	(692)
3	72,653	72,633	1,232	1.7%	3	23	0.0%	(1,209)
4	71,795	71,772	1,752	2.4%	11	34	0.0%	(1,718)
5	82,118	82,084	2,292	2.8%	12	46	0.1%	(2,246)

Annual Demand and Energy Savings [(1)]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.18	0.19	2.17	2.32
Winter kW Reduction	0.14	0.15	1.71	1.83
Annual kWh Reduction	906	953	10,874	11,439

Utility Cost per Installation ($):	
Total Program Cost of the Utility ($000):	459
Net Benefits of Measures Installed During Reporting Period ($000):	5.5
	(0.1)

(1) Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL HVAC RE-COMMISSIONING
Program Start Date: November 2011
Reporting Period: Annual 2014

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)
1	75,507	75,507	50	0.1%	0	0	0.0%	(50)
2	72,126	72,126	400	0.6%	0	0	0.0%	(400)
3	72,653	72,653	800	1.1%	87	87	0.1%	(713)
4	71,795	71,795	1,200	1.7%	141	228	0.3%	(972)
5	82,118	82,118	1,650	2.0%	68	296	0.4%	(1,354)

Annual Demand and Energy Savings [(1)]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.18	0.19	12.01	12.85
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	1,066	1,121	72,474	76,243

Utility Cost per Installation ($):	566
Total Program Cost of the Utility ($000):	38.5
Net Benefits of Measures Installed During Reporting Period ($000):	(1.8)

(1) Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL ELECTRONICALLY COMMUTATED MOTORS
Program Start Date: November 2011
Reporting Period: Annual 2014

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)
1	75,507	75,507	80	0.1%	0	0	0.0%	(80)
2	72,126	72,126	220	0.3%	0	0	0.0%	(220)
3	72,653	72,653	420	0.6%	0	0	0.0%	(420)
4	71,795	71,795	674	0.9%	0	0	0.0%	(674)
5	82,118	82,118	979	1.2%	0	0	0.0%	(979)

Annual Demand and Energy Savings [(1)]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

Utility Cost per Installation ($):	0
Total Program Cost of the Utility ($000):	0.326
Net Benefits of Measures Installed During Reporting Period ($000):	0.0

(1) Savings from measured data

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL COOL ROOF
Program Start Date: May 2011
Reporting Period: Annual 2014

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)
1	75,507	75,507	39	0.1%	0	0	0.0%	(39)
2	72,126	72,126	86	0.1%	25	25	0.0%	(61)
3	72,653	72,628	133	0.2%	49	74	0.1%	(59)
4	71,795	71,721	180	0.3%	43	117	0.2%	(63)
5	82,118	82,001	226	0.3%	32	149	0.2%	(77)

Annual Demand and Energy Savings [(1)]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	5.02	5.37	160.62	171.86
Winter kW Reduction	0.00	0.00	0.05	0.05
Annual kWh Reduction	28,776	30,273	920,845	968,729

Utility Cost per Installation ($):	10,400
Total Program Cost of the Utility ($000):	332.8
Net Benefits of Measures Installed During Reporting Period ($000):	(58.0)

[(1)] Savings from measured data.

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: COMMERCIAL ENERGY RECOVERY VENTILATION
Program Start Date: May 2011
Reporting Period: Annual 2014

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)
1	75,507	75,507	8	0.0%	0	0	0.0%	(8)
2	72,126	72,126	24	0.0%	0	0	0.0%	(24)
3	72,653	72,653	47	0.1%	0	0	0.0%	(47)
4	71,795	71,795	78	0.1%	3	3	0.0%	(75)
5	82,118	82,118	116	0.1%	0	3	0.0%	(113)

Annual Demand and Energy Savings [(1)]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	0.00	0.00	0.00	0.00
Winter kW Reduction	0.00	0.00	0.00	0.00
Annual kWh Reduction	0	0	0	0

Utility Cost per Installation ($):	0
Total Program Cost of the Utility ($000):	0.2
Net Benefits of Measures Installed During Reporting Period ($000):	(0.4)

[(1)] Savings from measured data.

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Demand Side Management Annual Report

Utility: Tampa Electric Company
Program Name: INDUSTRIAL LOAD MANAGEMENT
Program Start Date: September 1999
Reporting Period: Annual 2014

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)
1	75,507	1,619	1	0.1%	0	0	0.0%	(1)
2	72,126	1,546	2	0.1%	0	0	0.0%	(2)
3	72,653	1,557	3	0.2%	0	0	0.0%	(3)
4	71,795	1,539	4	0.3%	1	1	0.1%	(3)
5	82,118	1,540	5	0.3%	0	1	0.1%	(4)

Annual Demand and Energy Savings [1]	Per Installation		Program Total	
	@ Meter	@ Generator	@ Meter	@ Generator
Summer kW Reduction	1,000.00	1,070.00	0.00	0.00
Winter kW Reduction	1,000.00	1,070.00	0.00	0.00
Annual kWh Reduction	240,000	252,480	0	0

Utility Cost per Installation [2] ($):	0
Total Program Cost of the Utility ($000):	16,335.2
Net Benefits of Measures Installed During Reporting Period ($000):	235.8

[1] Savings from measured data.
[2] Program expenses are for total program participation. Participant costs are based on total program expenses and total program participation.

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Comparison of Annual Achieved kW and kWh Reductions
with Public Service Commission Established Goals
Savings at the Generator

Utility: TAMPA ELECTRIC COMPANY

Residential

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance
1	11.3	6.4	176.6%	8.1	4.6	176.1%	17.3	9.8	176.5%
2	10.2	8.5	120.0%	8.6	6.6	130.3%	19.2	14.0	137.1%
3	10.9	10.2	106.9%	9.7	8.4	115.5%	21.0	17.7	118.6%
4	13.3	11.5	115.7%	12.8	9.9	129.3%	26.4	20.6	128.2%
5	16.9	12.2	138.5%	13.0	10.8	120.4%	44.3	22.6	196.0%
6									
7									
8									
9									
10									

Commercial/Industrial

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance
1	6.6	0.9	733.3%	9.8	2.5	392.0%	16.4	6.5	252.3%
2	11.8	1.1	1072.7%	15.3	3.6	425.0%	33.0	10.6	311.3%
3	3.6	1.4	257.1%	6.3	4.3	146.5%	10.5	15.4	68.2%
4	6.8	1.3	523.1%	9.2	5.1	180.4%	23.2	16.2	143.2%
5	9.7	1.5	646.7%	12.6	5.4	233.3%	22.1	19.5	113.3%
6									
7									
8									
9									
10									

Combined

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance
1	17.9	7.3	245.2%	17.9	7.1	252.1%	33.7	16.3	206.7%
2	22.0	9.6	229.2%	23.9	10.2	234.3%	52.2	24.6	212.2%
3	14.5	11.6	125.0%	16.0	12.7	126.0%	31.5	33.1	95.2%
4	20.1	12.8	157.0%	22.0	15.0	146.7%	49.6	36.8	134.8%
5	26.6	13.7	194.2%	25.6	16.2	158.0%	66.4	42.1	157.7%
6									
7									
8									
9									
10									

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

Comparison of Cumulative Achieved kW and kWh Reductions
with Public Service Commission Established Goals
Savings at the Generator

Utility: TAMPA ELECTRIC COMPANY

Residential

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance
1	11.3	6.4	176.6%	8.1	4.6	176.1%	17.3	9.8	176.5%
2	21.5	14.9	144.3%	16.7	11.2	149.1%	36.5	23.8	153.4%
3	32.4	25.1	129.1%	26.4	19.6	134.7%	57.5	41.5	138.6%
4	45.7	36.6	124.9%	39.2	29.5	132.9%	83.9	62.1	135.1%
5	62.6	48.8	128.3%	52.2	40.3	129.5%	128.2	84.7	151.4%
6									
7									
8									
9									
10									

Commercial/Industrial

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance
1	6.6	0.9	733.3%	9.8	2.5	392.0%	16.4	6.5	252.3%
2	18.4	2.0	920.0%	25.1	6.1	411.5%	49.4	17.1	288.9%
3	22.0	3.4	647.1%	31.4	10.4	301.9%	59.9	32.5	184.3%
4	28.8	4.7	612.8%	40.6	15.5	261.9%	83.1	48.7	170.6%
5	38.5	6.2	621.0%	53.2	20.9	254.5%	105.2	68.2	154.3%
6									
7									
8									
9									
10									

Combined

	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
Year	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance	Total Achieved	Commission Approved Goal	% Variance
1	17.9	7.3	245.2%	17.9	7.1	252.1%	33.7	16.3	206.7%
2	39.9	16.9	236.1%	41.8	17.3	241.6%	85.9	40.9	210.0%
3	54.4	28.5	190.9%	57.8	30.0	192.7%	117.4	74.0	158.6%
4	74.5	41.3	180.4%	79.8	45.0	177.3%	167.0	110.8	150.7%
5	101.1	55.0	183.8%	105.4	61.2	172.2%	233.4	152.9	152.6%
6									
7									
8									
9									
10									

TAMPA ELECTRIC COMPANY
UNDOCKETED
DSM ACCOMPLISHMENTS
FILED: MARCH 3, 2015

FILED 5/1/2024
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FPSC - COMMISSION CLERK

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May 1, 2024

VIA: ELECTRONIC FILING

Mr. Adam Teitzman
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: Energy Conservation Cost Recovery Clause
FPSC Docket No. 20240002-EG

Dear Mr. Teitzman:

Attached for filing in the above docket on behalf of Tampa Electric Company is the Testimony of M. Ashley Sizemore and Exhibit MAS-1, entitled Schedules Supporting Conservation Cost Recovery Factor, Actual, for the period January 2023 – December 2023.

Thank you for your assistance in connection with this matter.

Sincerely,

Malcolm N. Means

Malcolm N. Means

MNM/bml
Attachment

cc: All Parties of Record (w/attachment)

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Testimony, filed on behalf of Tampa Electric Company, has been furnished by electronic mail on this 1st day of May, 2024 to the following:

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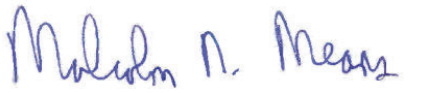
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ATTORNEY



BEFORE THE

FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 20240002-EG

IN RE: ENERGY CONSERVATION COST RECOVERY CLAUSE

TESTIMONY AND EXHIBIT

OF

M. ASHLEY SIZEMORE

FILED: May 1, 2024

TAMPA ELECTRIC COMPANY
DOCKET NO. 20240002-EG
FILED: MAY 1, 2024

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

PREPARED DIRECT TESTIMONY

OF

M. ASHLEY SIZEMORE

Q. Please state your name, address, occupation and employer.

A. My name is M. Ashley Sizemore. My business address is 702 North Franklin Street, Tampa, Florida 33602. I am employed by Tampa Electric Company ("Tampa Electric" or "the company") as Director, Regulatory Rates in the Regulatory Affairs.

Q. Please provide a brief outline of your educational background and business experience.

A. I received a Bachelor of Arts degree in Political Science and a Master of Business Administration from the University of South Florida in 2005 and 2008, respectively. I joined Tampa Electric in 2010 as a Customer Service Professional. In 2011, I joined the Regulatory Affairs Department as a Rate Analyst. I spent six years in the Regulatory Affairs Department working on environmental and fuel and capacity cost recovery clauses. During the following three years as a Program

Manager in Customer Experience, I managed billing and payment customer solutions, products and services. I returned to the Regulatory Affairs Department in 2020 as Manager, Rates. I was promoted to my current position in May 2023. My duties entail overseeing the cost recovery for fuel and purchased power, interchange sales, capacity payments, approved environmental projects, conservation and storm protection plan projects. I have over 11 years of electric utility experience in the areas of customer experience and project management as well as the management of fuel clause and purchased power, capacity, and environmental cost recovery clauses.

Q. What is the purpose of your testimony in this proceeding?

A. The purpose of my testimony is to present and support for Commission review and approval the company's actual DSM programs related true-up costs incurred during the January through December 2023 period.

Q. Did you prepare any exhibits in support of your testimony?

A. Yes. Exhibit No. MAS-1, entitled "Tampa Electric Company, Schedules Supporting Conservation Cost Recovery

Factor, Actual, January 2023–December 2023" was prepared under my direction and supervision. This Exhibit includes Schedules CT-1 through CT-6 which support the company's actual and prudent DSM program related true-up costs incurred during the January through December 2023 period.

Q. What were Tampa Electric's actual January through December 2023 conservation costs?

A. For the period, January through December 2023, Tampa Electric incurred actual net conservation costs of $47,132,152.

Q. What is the final end of period true-up amount for the conservation clause for January through December 2023?

A. The final conservation clause end of period true-up for January through December 2023 is an over-recovery of $8,209,235 which includes interest. This calculation is detailed on Schedule CT-1, page 1 of 1.

Q. Please summarize how Tampa Electric's actual program costs for January through December 2023 period compare to the actual/estimated costs presented in Docket No.

20230002-EG?

A. For the period, January through December 2023, Tampa Electric had a variance of $66,651 or 0.14 percent more than the estimated amount. The estimated total program costs were projected to be $47,065,501 which was the amount approved in Order No. PSC 2023-0342-FOF-EG, issued November 16, 2023, as compared to the incurred actual net conservation costs of $47,132,152.

Q. Please summarize the reasons why the actual expenses were more than projected expenses by $66,651?

A. The variance was a result of the following actual expenses being more than estimated in the following residential programs: Walk-through Energy Audit; Computer Assisted Audits; ENERGY STAR for New Homes; ENERGY STAR Pool Pumps; ENERGY STAR Thermostats; Neighborhood Weatherization; and Energy Planner. Additionally, actual expenses were more than estimated in the following commercial/industrial programs: Commercial/Industrial Audit (Free); Commercial Cooling; Industrial Load Management; Lighting Non-Conditioned; and the Integrated Renewable Energy System (Pilot). Each DSM program's detailed variance and common variance contribution is

shown on Schedule CT-2, Page 3 of 4.

Q. Are all costs listed on Schedule CT-2 directly related to the Commission's approved DSM programs?

A. Yes.

Q. When did Tampa Electric transition to the Commission approved 2020-2029 Ten-Year DSM Plan?

A. Tampa Electric transitioned to the Commission approved 2020-2029 Ten-Year DSM Plan on November 2, 2020, for all DSM programs.

Q. Did Tampa Electric offer the programs contained in the 2020-2029 Ten-Year DSM Plan the entire 2023 period?

A. Yes.

Q. Should Tampa Electric's cost incurred during the January through December 2023 period for energy conservation be approved by the Commission?

A. Yes, the costs incurred were prudent and directly related to the Commission's approved DSM programs and should be

approved.

Q. Does that conclude your testimony?

A. Yes, it does.

DOCKET NO. 20240002-EG
ECCR 2023 TRUE-UP
EXHIBIT MAS-1

TAMPA ELECTRIC COMPANY

SCHEDULES SUPPORTING CONSERVATION

COST RECOVERY FACTOR

ACTUAL

JANUARY 2023 - DECEMBER 2023

DOCKET NO. 20240002-EG
ECCR 2023 TRUE-UP
EXHIBIT MAS-1

CONSERVATION COST RECOVERY

INDEX

SCHEDULE	TITLE	PAGE
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CT-2	Program Costs - Actual vs. Projected	10
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CT-5	Reconciliation and Explanation of Difference between Filing and FPSC Audit	23
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DOCKET NO. 20240002-EG
FINAL ECCR 2023 TRUE-UP
EXHIBIT MAS-1, SCHEDULE CT-1, PAGE 1 OF 1

SCHEDULE CT-1
Page 1 of 1

TAMPA ELECTRIC COMPANY
Energy Conservation
Adjusted Net True-up
For Months January 2023 through December 2023

End of Period True-up			
	Principal	$7,900,469	
	Interest	$308,766	
	Total		$8,209,235
Less: Projected True-up			
(Last Projected Conservation Hearing)			
	Principal	$7,092,733	
	Interest	$270,457	
	Total		$7,363,190
Adjusted Net True-up			$846,045

DOCKET NO. 20240002-EG
FINAL ECCR 2023 TRUE-UP
EXHIBIT MAS-1, SCHEDULE CT-2, PAGE 1 OF 4

SCHEDULE CT-2
Page 1 of 4

TAMPA ELECTRIC COMPANY
Analysis of Energy Conservation Program Costs
Actual vs. Projected
For Months January 2023 through December 2023

	Description	Actual	Projected	Difference
1	Capital Investment	$1,863,435	$1,862,018	$1,417
2	Payroll	$4,922,976	$4,859,139	$63,838
3	Materials and Supplies	$482,028	$313,562	$168,466
4	Outside Services	$2,829,193	$2,670,662	$158,531
5	Advertising	$1,354,240	$1,252,620	$101,619
6	Incentives	$35,167,660	$35,228,550	($60,890)
7	Vehicles	$135,047	$133,162	$1,884
8	Other	$397,694	$777,705	($380,011)
9	Subtotal	$47,152,274	$47,097,418	$54,856
10	Less: LED Street and Outdoor Conversion Program	($175)	($175)	$0
11	Less: Renewable Revenues	($123,843)	($120,676)	($3,167)
12	Total	$47,028,255	$46,976,566	$51,689
13	Less: Renewable Program	$103,897	$88,934	$14,963
14	Total Program Costs	$47,132,152	$47,065,501	$66,651
15	Beginning of Period True-up Overrecovery	($4,883,834)	($4,883,834)	$0
16	Amounts included in Base Rates	$0	$0	$0
17	Conservation Adjustment Revenues	($50,148,788)	($49,274,401)	($874,387)
18	Regulatory Adjustments	0	$0	$0
19	True-up Before Interest	$7,900,469	$7,092,733	$807,736
20	Interest Provision	$308,766	$270,457	$38,309
21	End of Period True-up	$8,209,235	$7,363,190	$846,045

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TAMPA ELECTRIC COMPANY
Actual Conservation Program Costs per Program
For Months January 2023 through December 2023

	Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Program Revenues	Total
D0083437	Residential Walk-Through Energy Audit	0	1,473,790	25,694	14,831	542,761	0	74,130	30,907	0	2,162,112
D0083432	Residential Customer Assisted Audit	0	3,643	0	398,000	0	0	0	0	0	401,643
D0083434, D0083317	Residential Computer Assisted Audit	0	3,427	0	0	0	0	0	0	0	3,427
D0083526	Residential Ceiling Insulation	0	47,328	0	0	0	136,793	0	3,452	0	187,574
D0083530	Residential Duct Repair	0	13,930	0	0	0	54,788	0	0	0	68,718
D0083488	Energy and Renewable Education, Awareness and Agency Outreach	4,662	56,497	26,890	150,338	0	0	457	26,068	0	264,912
D0083546	Energy Star Multi-Family	0	0	0	0	0	0	0	0	0	-
D0083541	Energy Star for New Homes	0	16,650	0	0	0	770,000	0	2,728	0	789,378
D0091086	Energy Star Pool Pumps	0	25,024	0	0	0	511,000	0	403	0	536,427
D0091087	Energy Star Thermostats	0	40,036	0	0	0	75,134	0	2,204	0	117,374
D0083332	Residential Heating and Cooling	0	64,449	0	0	34	226,935	0	3,287	0	294,706
D0083538	Neighborhood Weatherization	0	593,205	253,933	159,108	550	1,067,482	961	11,857	0	2,087,096
D0083542	Energy Planner	763,984	770,970	121,903	697,900	501,216	0	47,207	57,662	0	2,960,842
D0091106	Residential Prime Time Plus	50,772	430,377	52,733	674,582	196,336	17,853	180	2,141	0	1,424,973
D0083486	Residential Window Replacement	0	74,347	0	0	0	175,823	0	0	0	250,170
D0083335	Prime Time	0	45,890	0	16,018	0	0	0	0	0	61,908
D0083447	Commercial/Industrial Audit (Free)	0	414,451	443	0	113,036	0	9,416	22,169	0	559,516
D0083446	Comprehensive Commercial/Industrial Audit (Paid)	0	0	0	0	0	0	8	0	0	8
D0083534	Commercial Chiller	0	597	0	0	0	5,598	17	0	0	6,212
D0083487	Cogeneration	0	35,730	0	0	0	0	0	0	0	35,730
D0083318	Conservation Value	0	0	0	0	0	0	8	0	0	8
D0083540	Commercial Cooling	0	4,921	0	0	0	27,576	196	1,673	0	34,366
D0083533	Demand Response	0	33,968	0	0	0	3,813,567	0	2,336	0	3,849,871
D0091107	Facility Energy Management System	0	24,303	0	0	0	595,936	31	0	0	620,270
D0083506	Industrial Load Management (GLSM 2&3)	0	38,698	0	0	0	22,722,751	0	0	0	22,761,449
D0083547	LED Street and Outdoor Conversion Program	0	0	0	0	0	0	0	12,803	(175)	12,628
D0083528	Lighting Conditioned Space	0	60,173	233	0	306	237,809	1,148	4,144	0	303,814
D0083544	Lighting Non-Conditioned Space	0	55,870	0	0	0	166,049	616	2,689	0	225,225
D0083535	Lighting Occupancy Sensors	0	16,474	0	0	0	13,435	58	0	0	29,967
D0083527	CILM (GLSM 1)	0	0	0	0	0	6,531	0	0	0	6,531
D0091108	Commercial Smart Thermostats	0	23,500	0	0	0	1,667	31	0	0	25,198
D0083529	Standby Generator	0	52,473	0	539,295	0	4,531,333	0	30,705	0	5,153,806
D0091109	Variable Frequency Drive Control for Compressors	0	14,078	0	0	0	9,600	14	0	0	23,693
D0083537	Commercial Water Heating	0	75	0	0	0	0	0	0	0	75
D0083539	Conservation Research and Development	0	1,771	0	44,028	0	0	20	1,804	0	47,624
D0083531	Renewable Energy Program (Sun to Go)	0	9,501	0	10,343	0	0	102	0	(123,843)	(103,897)
D0083328	Common Expenses	0	476,130	199	107,715	0	0	445	178,662	0	763,151
D0090066	Integrated Renewable Energy System (Pilot)	1,044,017	698	0	17,036	0	0	0	0	0	1,061,751
	Total All Programs	1,863,435	4,922,976	482,028	2,829,193	1,354,240	35,167,660	135,047	397,694	(124,018)	47,028,255
	Less Renewable Energy Program	-	9,501	-	10,343	-	-	102	-	(123,843)	(103,897)
	Total Less Renewable Energy Program	1,863,435	4,913,475	482,028	2,818,851	1,354,240	35,167,660	134,944	397,694	(175)	47,132,152

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TAMPA ELECTRIC COMPANY
Conservation Program Costs per Program
Variance - Actual vs. Projected
For Months January 2023 through December 2023

	Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Program Revenues	Total
D0083437	Residential Walk-Through Energy Audit	0	169,643	11,252	(16,570)	(58,974)	0	2,828	9,418	0	117,597
D0083432	Residential Customer Assisted Audit	0	(1,761)	0	398,000	0	0	0	(398,100)	0	(1,861)
D0083434, D0083317	Residential Computer Assisted Audit	0	1,306	0	0	0	0	0	0	0	1,306
D0083526	Residential Ceiling Insulation	0	(8,396)	0	0	0	(1,421)	(120)	2,833	0	(7,104)
D0083530	Residential Duct Repair	0	(12,335)	0	(500)	0	(10,831)	(240)	0	0	(23,906)
D0083488	Energy and Renewable Education, Awareness and Agency	4	(49,954)	22,550	5,781	0	0	(143)	(1,082)	0	(22,844)
D0083546	Energy Star Multi-Family	0	0	0	0	0	0	0	0	0	0
D0083541	Energy Star for New Homes	0	(8,964)	0	0	0	91,000	(150)	(2,221)	0	79,665
D0091086	Energy Star Pool Pumps	0	633	0	0	0	109,200	(60)	403	0	110,175
D0091087	Energy Star Thermostats	0	684	0	0	0	10,206	0	2,204	0	13,094
D0083332	Residential Heating and Cooling	0	(5,481)	0	0	34	(16,335)	(180)	476	0	(21,486)
D0083538	Neighborhood Weatherization	0	35,760	75,181	159,108	0	202,004	(205)	(671)	0	471,177
D0083542	Energy Planner	849	43,221	78,180	(26,139)	46,155	0	13,599	(1,854)	0	154,011
D0091106	Residential Prime Time Plus	3,408	(82,583)	(18,815)	(17,631)	97,237	3,231	(11,055)	(8,275)	0	(34,483)
D0083447	Commercial/Industrial Audit (Free)	0	(9,476)	94	(2,000)	16,861	0	1,409	13,001	0	19,889
D0083446	Comprehensive Commercial/Industrial Audit (Paid)	0	(514)	0	(500)	0	0	(72)	0	0	(1,085)
D0083534	Commercial Chiller	0	(85)	0	0	0	(10,500)	(8)	0	0	(10,593)
D0083487	Cogeneration	0	(8,034)	0	0	0	0	(600)	0	0	(8,634)
D0083318	Conservation Value	0	(1,534)	0	(542)	0	(20,000)	8	0	0	(22,068)
D0083540	Commercial Cooling	0	368	0	0	0	12,312	66	500	0	13,246
D0083533	Demand Response	0	(2,746)	0	0	0	(0)	(600)	(542)	0	(3,888)
D0091107	Facility Energy Management System	0	(4,381)	0	0	0	(695,000)	(100)	0	0	(699,481)
D0083506	Industrial Load Management (GLSM 2&3)	0	(6,255)	0	0	0	506,059	(950)	0	0	498,855
D0083547	LED Street and Outdoor Conversion Program	0	0	0	0	0	0	0	0	0	0
D0083528	Lighting Conditioned Space	0	(4,156)	98	0	306	(97,114)	(298)	1,379	0	(99,785)
D0083544	Lighting Non-Conditioned Space	0	5,261	0	0	0	40,190	(258)	257	0	45,451
D0083535	Lighting Occupancy Sensors	0	1,294	0	(8,488)	0	1,864	(67)	0	0	(5,398)
D0083527	CILM (GLSM 1)	(3,167)	(82)	0	0	0	0	0	0	0	(3,249)
D0091108	Commercial Smart Thermostats	0	337	0	0	0	(5,000)	(142)	(500)	0	(5,304)
D0083529	Standby Generator	0	6,008	0	46,444	0	(110,632)	(300)	1,782	0	(56,699)
D0091109	Variable Frequency Drive Control for Compressors	0	(938)	0	0	0	(6,000)	(136)	0	0	(7,074)
D0083537	Commercial Water Heating	0	(181)	0	0	0	(2,000)	(25)	0	0	(2,206)
D0083539	Conservation Research and Development	0	(712)	0	(280,972)	0	0	(300)	1,804	0	(280,179)
D0083531	Renewable Energy Program (Sun to Go)	0	(1,873)	0	0	0	0	77	(10,000)	(3,167)	(14,963)
D0083328	Common Expenses	0	(8,984)	(74)	(76,213)	0	0	445	9,478	0	(75,347)
D0090066	Integrated Renewable Energy System (Pilot)	323	(4,110)	0	(17,000)	0	0	(150)	0	0	(20,937)
	Total All Programs	1,417	63,838	168,466	158,531	101,619	(60,890)	1,884	(380,011)	(3,167)	51,689
	Less Renewable Energy Program	0	(1,873)	0	0	0	0	77	(10,000)	(3,167)	(14,963)
	Total Less Renewable Energy Program	1,417	65,711	168,466	158,531	101,619	(60,890)	1,807	(370,011)	0	66,651

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TAMPA ELECTRIC COMPANY
Description for Accounts
For Months January 2023 through December 2023

Internal Order	Program Name
D0083437	Residential Walk-Through Energy Audit
D0083432	Residential Customer Assisted Audit
D0083434, D0083317	Residential Computer Assisted Audit
D0083526	Residential Ceiling Insulation
D0083530	Residential Duct Repair
D0083488	Energy and Renewable Education, Awareness and Agency Outreach
D0083546	Energy Star Multi-Family
D0083541	Energy Star for New Homes
D0091086	Energy Star Pool Pumps
D0091087	Energy Star Thermostats
D0083332	Residential Heating and Cooling
D0083538	Neighborhood Weatherization
D0083542	Energy Planner
D0091106	Residential Prime Time Plus
D0083486	Residential Window Replacement
D0083335	Prime Time
D0083447	Commercial/Industrial Audit (Free)
D0083446	Comprehensive Commercial/Industrial Audit (Paid)
D0083534	Commercial Chiller
D0083487	Cogeneration
D0083318	Conservation Value
D0083540	Commercial Cooling
D0083533	Demand Response
D0091107	Facility Energy Management System
D0083506	Industrial Load Management (GLSM 2&3)
D0083547	LED Street and Outdoor Conversion Program
D0083528	Lighting Conditioned Space
D0083544	Lighting Non-Conditioned Space
D0083535	Lighting Occupancy Sensors
D0083527	CILM (GLSM 1)
D0091108	Commercial Smart Thermostats
D0083529	Standby Generator
D0091109	Variable Frequency Drive Control for Compressors
D0083537	Commercial Water Heating
D0083539	Conservation Research and Development
D0083531	Renewable Energy Program (Sun to Go)
D0083328	Common Expenses
D0090066	Integrated Renewable Energy System (Pilot)

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TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Summary of Expenses by Program by Month
For Months January 2023 through December 2023

	Program Name	January	February	March	April	May	June	July	August	September	October	November	December	Total
D0083437	Residential Walk-Through Energy Audit	152,369	130,435	177,470	158,811	339,488	173,534	151,076	285,221	156,648	115,699	160,258	161,104	2,162,112
D0083432	Residential Customer Assisted Audit	284	150	450	191	311	319	398,321	303	281	422	227	385	401,643
D0083434, D0083317	Residential Computer Assisted Audit	0	0	0	416	419	368	522	1,029	0	673	0	0	3,427
D0083526	Residential Ceiling Insulation	12,726	16,009	16,442	11,846	19,891	12,395	8,929	30,059	6,374	14,808	16,612	21,484	187,574
D0083530	Residential Duct Repair	2,982	13,141	2,716	1,603	15,065	746	1,136	10,704	3,885	778	3,331	12,631	68,718
D0083488	Energy and Renewable Education, Awareness ar	9,056	44,191	26,590	17,937	10,456	36,623	24,577	22,612	7,533	23,269	22,444	19,624	264,912
D0083546	Energy Star Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0	0
D0083541	Energy Star for New Homes	62,594	46,677	59,709	54,245	54,011	51,416	0	239,000	14,311	89,019	43,446	74,950	789,378
D0091086	Energy Star Pool Pumps	34,382	39,428	27,449	39,376	50,089	44,903	52,486	67,285	32,770	72,953	30,457	44,849	536,427
D0091087	Energy Star Thermostats	12,628	9,887	8,544	10,024	6,979	9,515	4,193	18,157	6,386	14,142	6,642	10,278	117,374
D0083332	Residential Heating and Cooling	29,732	25,503	26,015	27,964	24,804	17,657	28,420	23,575	16,013	28,337	16,373	30,315	294,706
D0083538	Neighborhood Weatherization	180,088	66,921	181,775	93,670	79,560	153,279	230,667	298,307	50,173	169,481	228,884	354,291	2,087,096
D0083542	Energy Planner	182,262	183,993	421,059	262,277	225,993	308,095	188,747	194,367	193,487	175,711	209,634	415,219	2,960,842
D0091106	Residential Prime Time Plus	150,340	56,549	338,973	118,655	139,486	66,349	47,721	57,287	64,788	121,901	162,965	99,958	1,424,973
D0083486	Residential Window Replacement	27,048	19,118	23,052	22,373	22,035	20,954	20,505	22,867	16,562	21,499	17,053	17,104	250,170
D0083335	Prime Time	1,028	5,237	3,761	586	7,351	7,578	6,123	10,158	6,150	5,861	4,570	3,505	61,908
D0083447	Commercial/Industrial Audit (Free)	40,878	34,412	44,502	37,312	42,801	39,850	45,343	50,271	51,752	74,896	70,111	27,388	559,516
D0083446	Comprehensive Commercial/Industrial Audit (Pa	0	0	0	0	0	0	0	0	0	0	0	8	8
D0083534	Commercial Chiller	5,669	109	0	0	0	0	0	109	0	85	51	189	6,212
D0083487	Cogeneration	2,382	2,350	6,543	2,726	2,870	2,232	2,869	2,650	2,435	2,904	2,164	3,606	35,730
D0083318	Conservation Value	2,000	(2,000)	0	0	0	0	0	0	0	0	0	8	8
D0083540	Commercial Cooling	1,770	456	652	11,437	322	551	5,398	6,484	378	5,932	356	630	34,366
D0083533	Demand Response	574,633	297,579	298,108	297,756	297,502	297,444	297,875	298,061	297,449	297,401	297,945	298,119	3,849,871
D0091107	Facility Energy Management System	1,533	1,676	1,593	243,791	6,626	277,566	1,883	2,096	1,923	52,385	1,817	27,379	620,270
D0083506	Industrial Load Management (GLSM 2&3)	1,525,506	2,077,105	1,875,732	1,810,380	1,930,620	1,891,035	1,992,020	2,056,462	2,143,358	1,985,028	1,698,548	1,775,656	22,761,449
D0083547	LED Street and Outdoor Conversion Program	10,483	2,145	0	0	0	0	0	0	0	0	0	0	12,628
D0083528	Lighting Conditioned Space	49,002	23,247	6,345	24,640	8,933	26,843	6,179	77,410	7,788	13,321	33,937	26,168	303,814
D0083544	Lighting Non-Conditioned Space	16,319	16,126	3,746	22,489	5,123	18,380	7,545	60,105	4,766	13,155	4,607	52,864	225,225
D0083535	Lighting Occupancy Sensors	1,022	1,161	2,805	1,325	1,540	1,344	1,524	1,264	1,451	2,930	11,826	1,776	29,967
D0083527	CILM (GLSM 1)	0	0	0	0	1,866	933	933	933	933	933	0	0	6,531
D0091108	Commercial Smart Thermostats	1,533	1,676	1,742	2,213	3,139	3,013	2,286	1,928	2,048	2,197	1,564	1,858	25,198
D0083529	Standby Generator	411,784	409,596	417,852	414,885	419,956	426,765	426,350	451,479	406,598	450,853	464,993	452,695	5,153,806
D0091109	Variable Frequency Drive Control for Compressc	1,022	1,118	976	1,166	10,300	2,044	1,280	1,285	1,123	1,060	1,077	1,242	23,693
D0083537	Commercial Water Heating	0	0	75	0	0	0	0	0	0	0	0	0	75
D0083539	Conservation Research and Development	0	0	447	147	368	102	76	0	0	170	1,785	44,528	47,624
D0083531	Renewable Energy Program (Sun to Go)	(9,355)	1,646	(9,015)	(10,296)	(10,718)	(10,490)	(10,098)	(10,190)	(9,740)	(9,109)	(8,271)	(8,262)	(103,897)
D0083328	Common Expenses	54,079	70,981	72,155	54,080	61,252	48,397	42,267	59,106	112,355	84,368	33,875	70,236	763,151
D0090066	Integrated Renewable Energy System (Pilot)	89,713	106,259	88,989	88,390	88,048	87,263	86,737	86,249	85,759	85,271	84,781	84,293	1,061,751
	Total All Programs	3,637,494	3,702,882	4,127,252	3,822,415	3,866,486	4,017,002	4,073,888	4,426,631	3,685,737	3,918,331	3,624,061	4,126,078	47,028,255
	Less Renewable Energy Program	(9,355)	1,646	(9,015)	(10,296)	(10,718)	(10,490)	(10,098)	(10,190)	(9,740)	(9,109)	(8,271)	(8,262)	(103,897)
	Total Less Renewable Energy Program	3,646,848	3,701,236	4,136,266	3,832,711	3,877,204	4,027,492	4,083,986	4,436,821	3,695,477	3,927,440	3,632,331	4,134,339	47,132,152

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TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of True-up and Interest Provision
For Months January 2023 through December 2023

Description	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Residential Conservation Audit Fees (A)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2 Conservation Adjustment Revenues *	3,783,092	3,435,853	3,530,619	3,845,837	4,054,549	4,452,607	5,049,290	5,118,045	5,223,905	4,447,626	3,701,237	3,506,130	50,148,788
3 Total Revenues	3,783,092	3,435,853	3,530,619	3,845,837	4,054,549	4,452,607	5,049,290	5,118,045	5,223,905	4,447,626	3,701,237	3,506,130	50,148,788
4 Prior Period True-up	30,160	30,160	30,160	30,160	30,160	30,160	30,160	30,160	30,160	30,160	30,160	30,163	361,923
5 Conservation Revenue Applicable to Period	3,813,252	3,466,013	3,560,779	3,875,997	4,084,709	4,482,767	5,079,450	5,148,205	5,254,065	4,477,786	3,731,397	3,536,293	50,510,711
6 Conservation Expenses	3,646,848	3,701,236	4,136,266	3,832,711	3,877,204	4,027,492	4,083,986	4,436,821	3,695,477	3,927,440	3,632,331	4,134,339	47,132,152
8 Regulatory Adjustments	0	0	0	0	0	0	0	0	0	0	0	0	0
7 True-up This Period (Line 5 - Line 6)	166,404	(235,223)	(575,488)	43,285	207,504	455,274	995,464	711,384	1,558,588	550,347	99,066	(598,047)	3,378,559
9 Interest Provision This Period	18,520	18,937	17,868	17,139	18,071	19,870	23,467	27,796	32,723	37,521	39,093	37,761	308,766
10 True-up & Interest Provision Beginning of Period	4,883,834	5,038,598	4,792,152	4,204,372	4,234,636	4,430,051	4,875,035	5,863,806	6,572,826	8,133,977	8,691,685	8,799,684	4,883,834
11 Prior Period True-up Collected (Refunded)	(30,160)	(30,160)	(30,160)	(30,160)	(30,160)	(30,160)	(30,160)	(30,160)	(30,160)	(30,160)	(30,160)	(30,163)	(361,923)
12 End of Period Total Net True-up	5,038,598	4,792,152	4,204,372	4,234,636	4,430,051	4,875,035	5,863,806	6,572,826	8,133,977	8,691,685	8,799,684	8,209,235	8,209,235

* Net of Revenue Taxes

(A) Included in Line 6

Revenues:	3,813,252	Expenses:	3,646,848	True Up:	166,404
	3,466,013		3,701,236		(235,223)
	3,560,779		4,136,266		(575,488)
	3,875,997		3,832,711		43,285
	4,084,709		3,877,204		207,504
	4,482,767		4,027,492		455,274
	5,079,450		4,083,986		995,464
	5,148,205		4,436,821		711,384
	5,254,065		3,695,477		1,558,588
	4,477,786		3,927,440		550,347
	3,731,397		3,632,331		99,066
	3,536,293		4,134,339		(598,047)
	50,510,711		47,132,152		3,378,559
				Check	3,378,559
				Variance	0

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TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of True-up and Interest Provision
For Months January 2023 through December 2023

Interest Provision	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Beginning True-up Amount	$4,883,834	$5,038,598	$4,792,152	$4,204,372	$4,234,636	$4,430,051	$4,875,035	$5,863,806	$6,572,826	$8,133,977	$8,691,685	$8,799,684	
2 Ending True-up Amount Before Interest	5,020,078	4,773,215	4,186,504	4,217,497	4,411,980	4,855,165	5,840,339	6,545,030	8,101,254	8,654,164	8,760,591	8,171,474	
3 Total Beginning & Ending True-up	9,903,912	9,811,813	8,978,656	8,421,869	8,646,616	9,285,216	10,715,374	12,408,836	14,674,080	16,788,141	17,452,276	16,971,158	
4 Average True-up Amount (50% of Line 3)	4,951,956	4,905,907	4,489,328	4,210,935	4,323,308	4,642,608	5,357,687	6,204,418	7,337,040	8,394,071	8,726,138	8,485,579	
5 Interest Rate - First Day of Month	4.370000	4.610000	4.660000	4.880000	4.890000	5.140000	5.130000	5.370000	5.370000	5.330000	5.400000	5.340000	
6 Interest Rate - First Day of Next Month	4.610000	4.660000	4.880000	4.890000	5.140000	5.130000	5.370000	5.370000	5.330000	5.400000	5.340000	5.340000	
7 Total (Line 5 + Line 6)	8.980000	9.270000	9.540000	9.770000	10.030000	10.270000	10.500000	10.740000	10.700000	10.730000	10.740000	10.680000	
8 Average Interest Rate (50% of Line 7)	4.490000	4.635000	4.770000	4.885000	5.015000	5.135000	5.250000	5.370000	5.350000	5.365000	5.370000	5.340000	
9 Monthly Average Interest Rate (Line 8/12)	0.003740	0.003860	0.003980	0.004070	0.004180	0.004280	0.004380	0.004480	0.004460	0.004470	0.004480	0.004450	
10 Interest Provision (Line 4 x Line 9)	$18,520	$18,937	$17,868	$17,139	$18,071	$19,870	$23,467	$27,796	$32,723	$37,521	$39,093	$37,761	$308,766

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SCHEDULE CT-4
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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2023 through December 2023

PRICE RESPONSIVE LOAD MANAGEMENT

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		$51,085	$67,588	$47,788	$92,967	$53,902	$88,003	$58,289	$96,430	$67,522	$11,046	$35,214	$56,191	$726,025
2 Retirements		$40,587	$60,384	$57,762	$35,531	$78,973	$28,407	$90,592	$70,139	$82,613	$69,501	$77,785	$26,158	$718,433
3 Depreciation Base		3,104,309	3,111,512	3,101,539	3,158,975	3,133,904	3,193,500	3,161,197	3,187,488	3,172,397	3,113,941	3,071,370	3,101,402	
4 Depreciation Expense		51,651	51,799	51,775	52,171	52,441	52,728	52,956	52,906	52,999	52,386	51,544	51,440	626,796
5 Cumulative Investment	3,093,811	$3,104,309	$3,111,512	$3,101,539	$3,158,975	$3,133,904	$3,193,500	$3,161,197	$3,187,488	$3,172,397	$3,113,941	$3,071,370	$3,101,402	$3,101,402
6 Less: Accumulated Depreciation	1,534,783	1,545,847	1,537,261	1,531,274	1,547,914	1,521,382	1,545,703	1,508,067	1,490,833	1,461,219	1,444,104	1,417,863	1,443,145	1,443,145
7 Net Investment	$1,559,028	$1,558,462	$1,574,252	$1,570,264	$1,611,060	$1,612,522	$1,647,797	$1,653,130	$1,696,654	$1,711,177	$1,669,837	$1,653,507	$1,658,257	$1,658,257
8 Average Investment		1,558,745	1,566,357	1,572,258	1,590,662	1,611,791	1,630,160	1,650,464	1,674,892	1,703,916	1,690,507	1,661,672	1,655,882	
9 Return on Average Investment - Equity Component		8,475	8,516	8,548	8,648	8,763	8,863	8,949	9,082	9,239	9,166	9,010	8,978	106,237
10 Return on Average Investment - Debt Component		2,466	2,478	2,487	2,516	2,549	2,579	2,611	2,649	2,695	2,674	2,628	2,619	30,951
11 Total Depreciation and Return		$62,592	$62,793	$62,810	$63,335	$63,753	$64,170	$64,516	$64,637	$64,933	$64,226	$63,182	$63,037	$763,984

Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 6.5244% x 1/12 (Jan-Jun) expansion factor of 1.34315. Line 9 x 6.5066% x 1/12 (Jul-Dec) expansion factor of 1.33950. Both based on ROE of 10.20% and weighted income tax rate of 25.345%.
Line 10 x 1.8981% x 1/12 (Jan-Dec).

ROI Equity	0.065244	0.065244	0.065244	0.065244	0.065244	0.065244	0.065066	0.065066	0.065066	0.065066	0.065066	0.065066	
ROI Debt	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	

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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2023 through December 2023

INDUSTRIAL LOAD MANAGEMENT

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2 Retirements		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3 Depreciation Base		0	0	0	0	0	0	0	0	0	0	0	0	
4 Depreciation Expense		0	0	0	0	0	0	0	0	0	0	0	0	0
5 Cumulative Investment	-	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
6 Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Net Investment	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
8 Average Investment		0	0	0	0	0	0	0	0	0	0	0	0	
9 Return on Average Investment		0	0	0	0	0	0	0	0	0	0	0	0	0
10 Return Requirements		0	0	0	0	0	0	0	0	0	0	0	0	0
11 Total Depreciation and Return		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 6.5244% x 1/12 (Jan-Jun) expansion factor of 1.34315. Line 9 x 6.5066% x 1/12 (Jul-Dec) expansion factor of 1.33950. Both based on ROE of 10.20% and weighted income tax rate of 25.345%.
Line 10 x 1.8981% x 1/12 (Jan-Dec).

ROI Equity	0.065244	0.065244	0.065244	0.065244	0.065244	0.065244	0.065066	0.065066	0.065066	0.065066	0.065066	0.065066	
ROI Debt	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	

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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2023 through December 2023

ENERGY EDUCATION AWARENESS

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$ -
2 Retirements		-$12,523	$13,325	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	801
3 Depreciation Base		33,693	20,368	20,368	20,368	20,368	20,368	20,368	20,368	20,368	20,368	20,368	20,368	
4 Depreciation Expense		457	451	339	339	339	339	339	339	339	339	339	339	4,302
5 Cumulative Investment	21,170	$33,693	$20,368	$20,368	$20,368	$20,368	$20,368	$20,368	$20,368	$20,368	$20,368	$20,368	$20,368	$20,368
6 Less: Accumulated Depreciation	14,661	27,642	14,767	15,107	15,446	15,786	16,125	16,465	16,804	17,143	17,483	17,822	18,162	18,162
7 Net Investment	$6,509	$6,052	$5,601	$5,262	$4,922	$4,583	$4,243	$3,904	$3,564	$3,225	$2,885	$2,546	$2,206	$2,206
8 Average Investment		6,280	5,826	5,431	5,092	4,752	4,413	4,073	3,734	3,395	3,055	2,716	2,376	
9 Return on Average Investment - Equity Component		34	32	30	28	26	24	22	20	18	17	15	13	279
10 Return on Average Investment - Debt Component		10	9	9	8	8	7	6	6	5	5	4	4	81
11 Total Depreciation and Return		$501	$492	$378	$375	$373	$370	$367	$365	$362	$361	$358	$356	$4,662

Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 6.5244% x 1/12 (Jan-Jun) expansion factor of 1.34315. Line 9 x 6.5066% x 1/12 (Jul-Dec) expansion factor of 1.33950. Both based on ROE of 10.20% and weighted income tax rate of 25.345%.
Line 10 x 1.8981% x 1/12 (Jan-Dec).

ROI Equity	0.065244	0.065244	0.065244	0.065244	0.065244	0.065244	0.065066	0.065066	0.065066	0.065066	0.065066	0.065066
ROI Debt	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981

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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2023 through December 2023

COMMERCIAL LOAD MANAGEMENT

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$ -
2 Retirements		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	0
3 Depreciation Base		0	0	0	0	0	0	0	0	0	0	0	0	
4 Depreciation Expense		0	0	0	0	0	0	0	0	0	0	0	0	0
5 Cumulative Investment	-	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
6 Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 Net Investment	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
8 Average Investment		0	0	0	0	0	0	0	0	0	0	0	0	
9 Return on Average Investment - Equity Component		0	0	0	0	0	0	0	0	0	0	0	0	0
10 Return on Average Investment - Debt Component		-	-	-	-	-	-	-	-	-	-	-	-	-
11 Total Depreciation and Return		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 6.5244% x 1/12 (Jan-Jun) expansion factor of 1.34315. Line 9 x 6.5066% x 1/12 (Jul-Dec) expansion factor of 1.33950. Both based on ROE of 10.20% and weighted income tax rate of 25.345%.
Line 10 x 1.8981% x 1/12 (Jan-Dec).

ROI Equity	0.065244	0.065244	0.065244	0.065244	0.065244	0.065244	0.065066	0.065066	0.065066	0.065066	0.065066	0.065066	
ROI Debt	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	

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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2023 through December 2023

INTEGRATED RENEWABLE ENERGY SYSTEMS (PILOT)

	Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Expenditures/Additions		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$ -
2	In-Service		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$ -
3	Retirements		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	0
4	Depreciation Base		4,188,533	4,188,533	4,188,533	4,188,533	4,188,533	4,188,533	4,188,533	4,188,533	4,188,533	4,188,533	4,188,533	4,188,533	
5	Depreciation Expense		69,809	69,809	69,809	69,809	69,809	69,809	69,809	69,809	69,809	69,809	69,809	69,809	837,707
6	Cumulative Investment In-Service	4,188,533	$4,188,533	$4,188,533	$4,188,533	$4,188,533	$4,188,533	$4,188,533	$4,188,533	$4,188,533	$4,188,533	$4,188,533	$4,188,533	$4,188,533	$4,188,533
7	Less: Accumulated Depreciation	1,317,820	1,387,629	1,457,438	1,527,247	1,597,056	1,666,865	1,736,674	1,806,483	1,876,291	1,946,100	2,015,909	2,085,718	2,155,527	2,155,527
8	CWIP	0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	0
9	Net Investment	$2,870,713	$2,800,904	$2,731,095	$2,661,286	$2,591,478	$2,521,669	$2,451,860	$2,382,051	$2,312,242	$2,242,433	$2,172,624	$2,102,815	$2,033,006	$2,033,006
10	Average Investment		2,835,809	2,766,000	2,696,191	2,626,382	2,556,573	2,486,764	2,416,955	2,347,146	2,277,338	2,207,529	2,137,720	2,067,911	
11	Return on Average Investment - Equity Component		15,418	15,039	14,659	14,280	13,900	13,521	13,105	12,727	12,348	11,970	11,591	11,213	159,771
12	Return on Average Investment - Debt Component		4,486	4,375	4,265	4,154	4,044	3,933	3,823	3,713	3,602	3,492	3,381	3,271	46,539
13	Total Depreciation and Return		$89,713	$89,223	$88,733	$88,243	$87,753	$87,263	$86,737	$86,249	$85,759	$85,271	$84,781	$84,293	$1,044,017

Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 6.5244% x 1/12 (Jan-Jun) expansion factor of 1.34315. Line 9 x 6.5066% x 1/12 (Jul-Dec) expansion factor of 1.33950. Both based on ROE of 10.20% and weighted income tax rate of 25.345%.
Line 10 x 1.8981% x 1/12 (Jan-Dec).

ROI Equity	0.065244	0.065244	0.065244	0.065244	0.065244	0.065244	0.065066	0.065066	0.065066	0.065066	0.065066	0.065066	
ROI Debt	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	
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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2023 through December 2023

RESIDENTIAL PRIME TIME PLUS

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		$0	$2,942	$53,214	$14,596	$53,995	$27,353	$50,771	$48,668	$70,524	$20,983	$72,895	$59,241	$475,181
2 Retirements		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3 Depreciation Base		0	2,942	56,156	70,752	124,747	152,100	202,871	251,539	322,062	343,045	415,940	475,181	
4 Depreciation Expense		0	25	492	1,058	1,629	2,307	2,958	3,787	4,780	5,543	6,325	7,426	36,329
5 Cumulative Investment	0	$0	$2,942	$56,156	$70,752	$124,747	$152,100	$202,871	$251,539	$322,062	$343,045	$415,940	$475,181	$475,181
6 Less: Accumulated Depreciation	0	0	25	517	1,575	3,204	5,511	8,469	12,256	17,036	22,578	28,903	36,329	36,329
7 Net Investment	$0	$0	$2,917	$55,639	$69,177	$121,543	$146,589	$194,402	$239,283	$305,027	$320,467	$387,037	$438,852	$438,852
8 Average Investment		0	1,459	29,278	62,408	95,360	134,066	170,495	216,842	272,155	312,747	353,752	412,945	
9 Return on Average Investment - Equity Component		0	8	159	339	518	729	924	1,176	1,476	1,696	1,918	2,239	11,182
10 Return on Average Investment - Debt Component		0	2	46	99	151	212	270	343	430	495	560	653	3,261
11 Total Depreciation and Return		$0	$35	$697	$1,496	$2,298	$3,248	$4,152	$5,306	$6,686	$7,734	$8,803	$10,318	$50,772

Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 6.5244% x 1/12 (Jan-Jun) expansion factor of 1.34315. Line 9 x 6.5066% x 1/12 (Jul-Dec) expansion factor of 1.33950. Both based on ROE of 10.20% and weighted income tax rate of 25.345%.
Line 10 x 1.8981% x 1/12 (Jan-Dec).

ROI Equity	0.065244	0.065244	0.065244	0.065244	0.065244	0.065244	0.065066	0.065066	0.065066	0.065066	0.065066	0.065066	
ROI Debt	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	0.018981	

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TAMPA ELECTRIC COMPANY
Reconciliation and Explanation of
Difference Between Filing and FPSC Audit
For Months January 2023 through December 2023

The audit has not been completed as of the date of this filing.

Program Description and Progress

Program Title: Energy Audits

Program Description: Energy audits are a conservation program designed to save demand and energy by increasing customer awareness of energy use in personal residences, commercial facilities and industrial plants. Five types of audits are available to Tampa Electric customers; three types are for residential class customers and two types are for commercial/industrial customers.

Program Accomplishments: January 1, 2023 to December 31, 2023

Number of customers participating:

Residential Walk-Through:	4,090
Residential Customer Assisted:	100,189
Residential Computer Assisted:	5
Commercial/Industrial:	976
Commercial/Industrial Comprehensive:	0

Program Fiscal Expenditures: January 1, 2023 to December 31, 2023

Actual expenses were $3,126,707.

Program Progress Summary: Through this reporting period 376,221 customers have participated in on-site audits. Additionally, 557,543 customers have participated in company processed residential and commercial customer assisted audits.

Program Description and Progress

Program Title: Residential Ceiling Insulation

Program Description: The Residential Ceiling Insulation Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing ceiling insulation to help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. Ceiling insulation is designed to reduce demand and energy by decreasing the load on residential air conditioning and heating equipment. Qualifying residential structures are eligible for a rebate based upon the total square footage of insulation installed over conditioned space. Customers will receive a certificate that is used as partial payment for the ceiling insulation installed.

Program Accomplishments: January 1, 2023 to December 31, 2023

Number of customers participating: 480

Program Fiscal Expenditures: January 1, 2023 to December 31, 2023

Actual expenses were $187,574.

Program Progress Summary: Through this reporting period 125,509 customers have participated.

Program Description and Progress

Program Title: Residential Duct Repair

Program Description: The Residential Duct Repair Program is a conservation rebate program designed to reduce demand and energy by decreasing the load on residential HVAC equipment helping the customer reduce their energy consumption and reducing Tampa Electric's peak demand. This program eliminates or reduces areas of HVAC air distribution losses by sealing and repairing the air distribution system. The air distribution system is defined as the air handler, air ducts, return plenums, supply plenums and any connecting structure.

Program Accomplishments: January 1, 2023 to December 31, 2023

Number of customers participating: 315

Program Fiscal Expenditures: January 1, 2023 to December 31, 2023

Actual expenses were $68,718.

Program Progress Summary: Through this reporting period 104,726 customers have participated.

Program Description and Progress

Program Title:	Energy and Renewable Education, Awareness and Agency Outreach
Program Description:	The Energy and Renewable Education, Awareness and Agency Outreach Program is comprised of three distinct initiatives. The Energy Education and Awareness portion of the program is designed to establish opportunities for engaging groups of customers and students in energy-efficiency related discussions in an organized setting. The Agency Outreach portion of the program will allow for delivery of energy efficiency kits that will help educate agency clients on practices that help to reduce energy consumption. The suggested practices will mirror the recommendations provided to customers who participate in a free energy audit.
Program Accomplishments:	January 1, 2023 to December 31, 2023 In this reporting period Tampa Electric participated in over 40 designated energy education and awareness events. Tampa Electric also continues to partner with Junior Achievement BizTown. In addition, the company gave 2 presentations to civic organizations and distributed 2,401 energy saving kits to participating customers. As well as reengage the energy efficiency and electric vehicle ("EV") training curriculum through the local school systems.
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $264,912.
Program Progress Summary:	Through this reporting period Tampa Electric has partnered with 152 local schools to present Energy Education to 42,044 students and Electric Vehicle Education to 1,838 with (three) local high schools. In addition, the company gave 224 presentations to civic organizations that generated 1,655 customer assisted audits and distributed 14,283 energy saving kits to participating customers.

Program Description and Progress

Program Title: ENERGY STAR for New Multi-Family Residences

Program Description: The ENERGY STAR for New Multi-Family Residences Program is a residential new construction conservation program designed to reduce the growth of peak demand and energy in the residential new construction apartment and condominium residence market. The program utilizes a rebate to encourage the construction of new multi-family residences to meet the requirements to achieve the ENERGY STAR certified apartments and condominium label. By receiving this certificate, the new residence will use less energy and demand which will help reduce the growth of Tampa Electric's peak demand.

Program Accomplishments: January 1, 2023 to December 31, 2023

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2023 to December 31, 2023

Actual expenses were $0.

Program Progress Summary: Through this reporting period 264 customers have participated.

Program Description and Progress

Program Title: ENERGY STAR for New Homes

Program Description: The ENERGY STAR for New Homes Program is a residential new construction conservation program designed to reduce the growth of peak demand and energy in the residential new construction market. The program utilizes a rebate to encourage the construction of new homes to meet the requirements to achieve the ENERGY STAR certified new home label. By receiving this certificate, the new home will use less energy and demand which will help reduce the growth of Tampa Electric's peak demand. This program replaced the prior Residential New Construction program.

Program Accomplishments: January 1, 2023 to December 31, 2023

Number of customers participating: 770

Program Fiscal Expenditures: January 1, 2023 to December 31, 2023

Actual expenses were $789,378.

Program Progress Summary: Through this reporting period 17,825 customers have participated.

Program Description and Progress

Program Title: ENERGY STAR Pool Pumps

Program Description: The ENERGY STAR Pool Pumps Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing high efficiency ENERGY STAR rated pool pumps to help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. High efficiency pool pumps require less demand and energy as compared to standard systems. This program will rebate residential customers that install a qualifying pool pump.

Program Accomplishments: January 1, 2023 to December 31, 2023

Number of customers participating: 1,460

Program Fiscal Expenditures: January 1, 2023 to December 31, 2023

Actual expenses were $536,427.

Program Progress Summary: Through this reporting period 3,291 customers have participated.

Program Description and Progress

Program Title: ENERGY STAR Thermostats

Program Description: The ENERGY STAR Thermostats Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing an ENERGY STAR certified smart thermostat to help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. Smart thermostats are designed to reduce demand and energy by decreasing the load on residential air conditioning and heating equipment and providing energy usage information regarding the heating and cooling system's settings and usage. This program will rebate residential customers that install a qualifying thermostat.

Program Accomplishments: January 1, 2023 to December 31, 2023

Number of customers participating: 1,505

Program Fiscal Expenditures: January 1, 2023 to December 31, 2023

Actual expenses were $117,374.

Program Progress Summary: Through this reporting period 3,900 customers have participated.

Program Description and Progress

Program Title:	Residential Heating and Cooling
Program Description:	The Residential Heating and Cooling Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing high efficiency heating and cooling systems to help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. High efficiency heating and cooling systems require less demand and energy as compared to standard systems. This program will rebate residential customers that install a qualifying air conditioning system.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Number of customers participating: 1,681
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $294,706.
Program Progress Summary:	Through this reporting period 219,269 customers have participated.

Program Description and Progress

Program Title:	Neighborhood Weatherization
Program Description:	The Neighborhood Weatherization Program is designed to assist low income families in reducing their energy usage. The goal of the program is to provide and install a package of conservation measures at no cost to the customer. Another key component will be educating families and promoting energy conservation techniques to help customers control and reduce their energy usage.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Number of customers participating: 8,258
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $2,087,096.
Program Progress Summary:	Through this reporting period 79,010 customers have participated.

Program Description and Progress

Program Title:	Residential Price Responsive Load Management (Energy Planner)
Program Description:	The company's program relies on a multi-tiered rate structure combined with price signals conveyed to participating customers during the day. This price information is designed to encourage customers to make behavioral or equipment usage changes to their energy consumption thereby achieving the desired high-cost period load reduction to assist in meeting system peak.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Number of net customers participating: 480
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $2,960,842.
Program Progress Summary:	Through this reporting period 8,469 customers have participated.

Program Description and Progress

Program Title:	Residential Prime Time Plus
Program Description:	Tampa Electric's "Prime Time Plus" is a residential load management program designed to alter the company's system load curve by reducing summer and winter demand peaks. Residential loads such as heating, air conditioning, water heaters and pool pumps will be controlled via the company's advanced metering infrastructure ("AMI") when that system fully becomes available. In addition, the customer will receive the same programmable "smart thermostat" and access to the web portal offered in the Energy Planner program. The web portal and "smart thermostat" allow the customer to change thermostat settings from any web connected device. The program will leverage the company's AMI to provide the communication with the installed thermostat and customer selected appliances for load control.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Number of net customers participating: 537
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $1,424,973.
Program Progress Summary:	Through this reporting period 538 customers have participated.

Program Description and Progress

Program Title:	Residential Window Replacement
Program Description:	The Residential Window Replacement Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for replacing existing external windows with high performance windows that help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. High performance windows are designed to reduce demand and energy by decreasing the solar heat gain into a residence and in turn, decrease the load on residential air conditioning equipment. Qualifying residential structures are eligible for a rebate based upon the total square footage of exterior windows replaced.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Number of customers participating: 1,236
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $250,170.
Program Progress Summary:	Through this reporting period 21,811 customers have participated.

Program Description and Progress

Program Title:	Prime Time
Program Description:	This load management incentive program encourages residential customers to allow the control for reducing weather-sensitive heating, cooling and water heating through a radio signal control mechanism. The participating customers receive monthly incentives as credits on their electric bills. Per Commission Order No. PSC-15-0434-CO-EG issued October 12, 2015, the Prime Time Program began its systematic phased closure. This program was retired on May 11, 2016.
Program Accomplishments:	January 1, 2023 to December 31, 2023 See Program Progress Summary below.
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $61,908.
Program Progress Summary:	This program was retired on May 11, 2016.

Program Description and Progress

Program Title: Commercial Chiller

Program Description: The Commercial Chiller Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities and processes. The goal is to offer customer rebates for installing high efficiency electric water-cooled chillers and electric air-cooled chillers that exceed Florida's Building Code and minimum product manufacturing standards in commercial/industrial buildings or processes to help reduce their energy consumption and demand while reducing Tampa Electric's weather sensitive peak demand. High efficiency chillers reduce demand and energy by decreasing the load on air conditioning and heating equipment or process cooling equipment during weather sensitive peak demand times.

Program Accomplishments: January 1, 2023 to December 31, 2023

Number of customers participating: 3

Program Fiscal Expenditures: January 1, 2023 to December 31, 2023

Actual expenses were $6,212.

Program Progress Summary: Through this reporting period 78 customers have participated.

Program Description and Progress

Program Title:	Cogeneration
Program Description:	Tampa Electric's Cogeneration program is administered by a professional team experienced in working with cogenerators. The group manages functions related to coordination with Qualifying Facilities ("QFs") including negotiations, agreements and informational requests; functions related to governmental, regulatory and legislative bodies; research, development, data acquisition and analysis; economic evaluations of existing and proposed QFs as well as the preparation of Tampa Electric's Annual Twenty-Year Cogeneration Forecast.
Program Accomplishments:	January 1, 2023 to December 31, 2023 The company continued communication and interaction with all present and potential customers. Tampa Electric completed the development and publication of the 20-Year Cogeneration Forecast, reviewed proposed cogeneration opportunities for cost-effectiveness and answered data requests from existing cogenerators. The company also attended meetings as scheduled with cogeneration customer personnel at selected facilities.
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $35,730.
Program Progress Summary:	At the end of 2023, there are seven cogeneration Qualifying Facilities ("QFs") that are on-line in Tampa Electric's service area. The total nameplate generation capacity of these seven interconnected cogeneration facilities is 398.3 MW. During 2023, the company received 97 GWh from these facilities. The company continues interaction with current and potential cogeneration developers regarding on-going and future cogeneration activities.

Program Description and Progress

Program Title: Conservation Value

Program Description: The Conservation Value Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. This rebate program is designed to recognize those investments in demand shifting or demand reduction measures that reduce Tampa Electric's peak demand. Measures funded in this program will not be covered under any other Tampa Electric commercial/industrial conservation programs. Candidates are identified through energy audits or their engineering consultants can submit proposals for funding which offer demand and energy reduction during weather sensitive peak periods helping reduce Tampa Electric's peak demand.

Program Accomplishments: January 1, 2023 to December 31, 2023

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2023 to December 31, 2023

Actual expenses were $8.

Program Progress Summary: Through this reporting period 51 customers have participated.

Program Description and Progress

Program Title: Commercial Cooling

Program Description: The Commercial Cooling Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing high efficiency heating and cooling systems to help reduce their energy consumption and demand while reducing Tampa Electric's weather sensitive peak demand. High efficiency heating and cooling systems require less demand and energy as compared to standard systems. This program will rebate commercial/industrial customers that install a qualifying air conditioning system.

Program Accomplishments: January 1, 2023 to December 31, 2023

Number of customers participating: 174

Program Fiscal Expenditures: January 1, 2023 to December 31, 2023

Actual expenses were $34,366.

Program Progress Summary: Through this reporting period 2,626 customers have participated.

Program Description and Progress

Program Title:	Demand Response
Program Description:	Tampa Electric's Commercial Demand Response is a conservation and load management program intended to help alter the company's system load curve by reducing summer and winter demand peaks. The company will contract for a turn-key program that will induce commercial/industrial customers to reduce their demand for electricity in response to market signals. Reductions will be achieved through a mix of emergency backup generation, energy management systems, raising cooling set-points and turning off or dimming lights, signage, etc.
Program Accomplishments:	January 1, 2023 to December 31, 2023 See Program Progress Summary below.
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $3,849,871.
Program Progress Summary:	Through this reporting period the company's vendor maintains a portfolio of participating customers providing an available total of 40 MW for demand response control.

Program Description and Progress

Program Title:	Facility Energy Management System
Program Description:	The Facility Energy Management System Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing a facility energy management system that provides real time operational, production and energy consumption information which enables the customer to reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install a qualifying facility energy management system.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Number of customers participating: 26
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $620,270.
Program Progress Summary:	Through this reporting period 30 customers have participated.

Program Description and Progress

Program Title:	Industrial Load Management (GSLM 2&3)
Program Description:	This load management program is for large industrial customers with interruptible loads of 500 kW or greater.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Net new customers participating: 0
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $22,761,449.
Program Progress Summary:	This program was approved by the Commission in Docket No. 990037-EI, Order No. PSC-99-1778-FOF-EI, issued September 10, 1999. Beginning May 2009, Tampa Electric transferred existing IS (non-firm) customers to a new IS (firm) rate schedule. Beginning January 2022, Tampa Electric closed the IS (firm) rate schedule and transferred these customers to either GSD or GSLD. These customers continue to be incented under GSLM-2 or GSLM-3 rate riders with expenses recovered through the ECCR clause.

Program Description and Progress

Program Title:	Commercial Street and Outdoor Lighting Conversion
Program Description:	The Commercial Street and Outdoor Lighting Conversion program is designed to convert the company's existing metal halide and high-pressure sodium street and outdoor luminaires to light emitting diode luminaires. The program allows for the recovery of the remaining unamortized costs in rate base associated with the luminaires converted.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Number of luminaires retired: 8,827
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Net expenditures were $12,628.
Program Progress Summary:	Through this reporting period 209,821 luminaires have been converted. As of April 2023, the LED Street Light Conversion Program has been completed.

Program Description and Progress

Program Title:	Lighting Conditioned Space
Program Description:	The Lighting Conditioned Space Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing energy efficient lighting technology and systems within conditioned space to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying conditioned spaces lighting systems.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Number of customers participating: 79
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $303,814.
Program Progress Summary:	Through this reporting period 3,325 customers have participated.

Program Description and Progress

Program Title: Lighting Non-Conditioned Space

Program Description: The Lighting Non-Conditioned Space Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing energy efficient outdoor lighting technology and systems or in non-conditioned spaces to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying non-conditioned spaces lighting systems.

Program Accomplishments: January 1, 2023 to December 31, 2023

Number of customers participating: 38

Program Fiscal Expenditures: January 1, 2023 to December 31, 2023

Actual expenses were $225,225.

Program Progress Summary: Through this reporting period 1,261 customers have participated.

Program Description and Progress

Program Title:	Lighting Occupancy Sensors
Program Description:	The Lighting Occupancy Sensors Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing lighting occupancy sensors to efficiently control lighting systems to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying occupancy sensors for lighting systems.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Number of customers participating: 6
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $29,967.
Program Progress Summary:	Through this reporting period 243 customers have participated.

Program Description and Progress

Program Title:	Commercial Load Management
Program Description:	The Commercial Load Management Program is intended to help alter Tampa Electric's system load curve by reducing summer and winter demand peaks. The goal is to offer customer incentives for allowing the installation and control of load management control equipment on specific technologies to reduce Tampa Electric's weather sensitive peak demand. Customers that participate in this program choose whether to have the technology controlled either interrupted for the entire control period or cycled during the control period. Tampa Electric will provide a monthly incentive credit to customers participating in this program.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Net new customers participating: 0
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $6,531.
Program Progress Summary:	Through this reporting period there are three participating customers on cyclic control and zero customers on extended control.

Program Description and Progress

Program Title:	Commercial Smart Thermostats
Program Description:	The Commercial Smart Thermostat Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing smart thermostats to help reduce their demand while reducing Tampa Electric's weather sensitive peak demand. Smart thermostats are designed to reduce demand and energy by decreasing the load on commercial/industrial air conditioning and heating equipment and providing energy usage information regarding the heating and cooling system's settings and usage. This program will rebate commercial/industrial customers that install qualifying thermostat(s).
Program Accomplishments:	January 1, 2023 to December 31, 2023 Number of customers participating: 7
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $25,198.
Program Progress Summary:	Through this reporting period 146 customers have participated.

Program Description and Progress

Program Title: Standby Generator

Program Description: The Standby Generator Program is designed to utilize the emergency generation capacity of commercial/industrial facilities in order to reduce weather sensitive peak demand. Tampa Electric provides the participating customers a 30-minute notice that their generation will be required. This allows customers time to start generators and arrange for orderly transfer of load. Tampa Electric meters and issues monthly credits for that portion of the generator's output that could serve normal building load after the notification time. Normal building load is defined as load (type, amount and time duration) that would have been served by Tampa Electric if the emergency generator did not operate. Under no circumstances will the generator deliver power to Tampa Electric's grid. Under the Environmental Protection Agency's rules, Tampa Electric classifies the Standby Generator Program as a non-emergency program.

Program Accomplishments: January 1, 2023 to December 31, 2023

Net new customers participating: 17

Program Fiscal Expenditures: January 1, 2023 to December 31, 2023

Actual expenses were $5,153,806.

Program Progress Summary: Through this reporting period there are 130 participating customers.

Program Description and Progress

Program Title:	Variable Frequency Drive Control for Compressors
Program Description:	The Variable Frequency Drive Control for Compressors Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing variable frequency drives to their new or existing refrigerant or air compressor motors to help reduce their demand while reducing Tampa Electric's weather sensitive peak demand. Tampa Electric will provide a rebate to customers who install a qualifying variable frequency drive.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Number of customers participating: 16
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $23,693.
Program Progress Summary:	Through this reporting period 38 customers have participated.

Program Description and Progress

Program Title:	Commercial Water Heating
Program Description:	The Commercial Water Heating Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing energy efficient water heating systems to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying water heating systems.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Number of customers participating: 0
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $75.
Program Progress Summary:	Through this reporting period zero customers have participated.

Program Description and Progress

Program Title:	Integrated Renewable Energy System (Pilot)
Program Description:	The commercial/industrial Integrated Renewable Energy System Program is a five-year pilot program to study the capabilities and DSM opportunities of a fully integrated renewable energy system. The integrated renewable energy system will include an approximate 800 kW photovoltaic array, two-250 kW batteries, and several electric vehicle charging systems to charge electric vehicles, industrial vehicles and auxiliary industrial vehicle batteries. The pilot program will have two main purposes. The first main purpose is to evaluate the capability to perform demand response from the main batteries and each vehicle battery and to determine the preferred operating characteristics of a fully integrated renewable and energy storage system to leverage DSM opportunities. The second main purpose is to use the installation and its associated operational information as an education platform for commercial and industrial customers seeking information on this type of system and its benefits, concerns and capabilities.
Program Accomplishments:	January 1, 2023 to December 31, 2023 Number of customers participating: 0
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $1,061,751.
Program Progress Summary:	Tampa Electric continued studying the Integrated Renewable Energy System (“IRES”) following its commissioning in 2021. The Pilot program is on track to be completed by the end of 2024.

Program Description and Progress

Program Title:	DSM Research and Development (R&D)
Program Description:	This program is in response to Rule 25-17.001 (5) (f), F.A.C., that requires aggressive R&D projects be "…an ongoing part of the practice of every well managed utility's programs." It is also in support of FPSC Order No. 22176 dated November 14, 1989, requiring utilities to "…pursue research, development, and demonstration projects designed to promote energy efficiency and conservation." R&D activity will be conducted on proposed measures to determine the impact to the company and its ratepayers and may occur at customer premises, Tampa Electric facilities or at independent test sites. Tampa Electric will report program progress through the annual ECCR True-Up filing and as communicated to the commission the company will also provide the results of R&D activities in the company's annual DSM Report.
Program Accomplishments:	January 1, 2023 to December 31, 2023 See Program Progress Summary below.
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $47,624.
Program Progress Summary:	For 2023, the company worked on identifying the site selection and began the process for installing the first small to mid-size commercial battery in early 2024.

Program Description and Progress

Program Title: Renewable Energy Program

Program Description: This program provides customers with the option to purchase 200 kWh blocks of renewable energy for five dollars per block to assist in the delivery of renewable energy to the company's grid system. This specific effort provides funding for renewable energy procurement, program administration, evaluation and market research.

Program Accomplishments: January 1, 2023 to December 31, 2023

Year-end customers participating:	1,081
Number of net customers participating:	-40
Blocks of energy purchased:	1,924
One-time blocks of energy sold:	0

Program Fiscal Expenditures: January 1, 2023 to December 31, 2023

Actual expenses were $19,946.
Actual program revenues were $123,843.

Program Progress Summary: In this reporting period 24,498 monthly and one-time blocks of renewable energy have been purchased.

Program Description and Progress

Program Title:	Common Expenses
Program Description:	These are expenses common to all programs.
Program Accomplishments:	January 1, 2023 to December 31, 2023 N/A
Program Fiscal Expenditures:	January 1, 2023 to December 31, 2023 Actual expenses were $763,151.
Program Progress Summary:	N/A

	Annual MWh	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
ResProgram1	Res Existing Home	849.4223	895.0181	939.8056	985.3817	1031.6806	1075.6851	1125.3570	1182.8270	1248.4861	1322.4471
ResProgram2	Res Efficiency Delivered	73.5046	77.2376	80.8840	84.5815	88.3246	91.8567	95.8589	100.5102	105.8404	111.8559
ResProgram3	Res New Home	112.5602	119.3026	125.9205	132.6312	139.4297	145.9094	153.1515	161.4547	170.8813	181.4544
	Residential Total	1035.4870	1091.5583	1146.6100	1202.5944	1259.4348	1313.4512	1374.3673	1444.7919	1525.2078	1615.7573
ComProgram1	Com Prescriptive	636.5461	671.6882	697.6738	720.3461	738.8613	752.8401	762.5551	768.7880	771.9207	771.7708
ComProgram2	Com Lighting	1569.1875	1697.4469	1796.0997	1880.9904	1950.5127	2004.2941	2043.5042	2070.3894	2086.2117	2091.1780
ComProgram3	Com Custom	1001.1615	1139.2976	1275.2211	1417.3148	1557.8998	1689.0814	1799.0510	1875.7343	1911.5510	1903.6314
	Non-Residential Total	3206.8951	3508.4327	3768.9946	4018.6513	4247.2739	4446.2156	4605.1103	4714.9117	4769.6834	4766.5802
	Portfolio Total	4242.3821	4599.9910	4915.6047	5221.2457	5506.7087	5759.6667	5979.4777	6159.7036	6294.8912	6382.3375

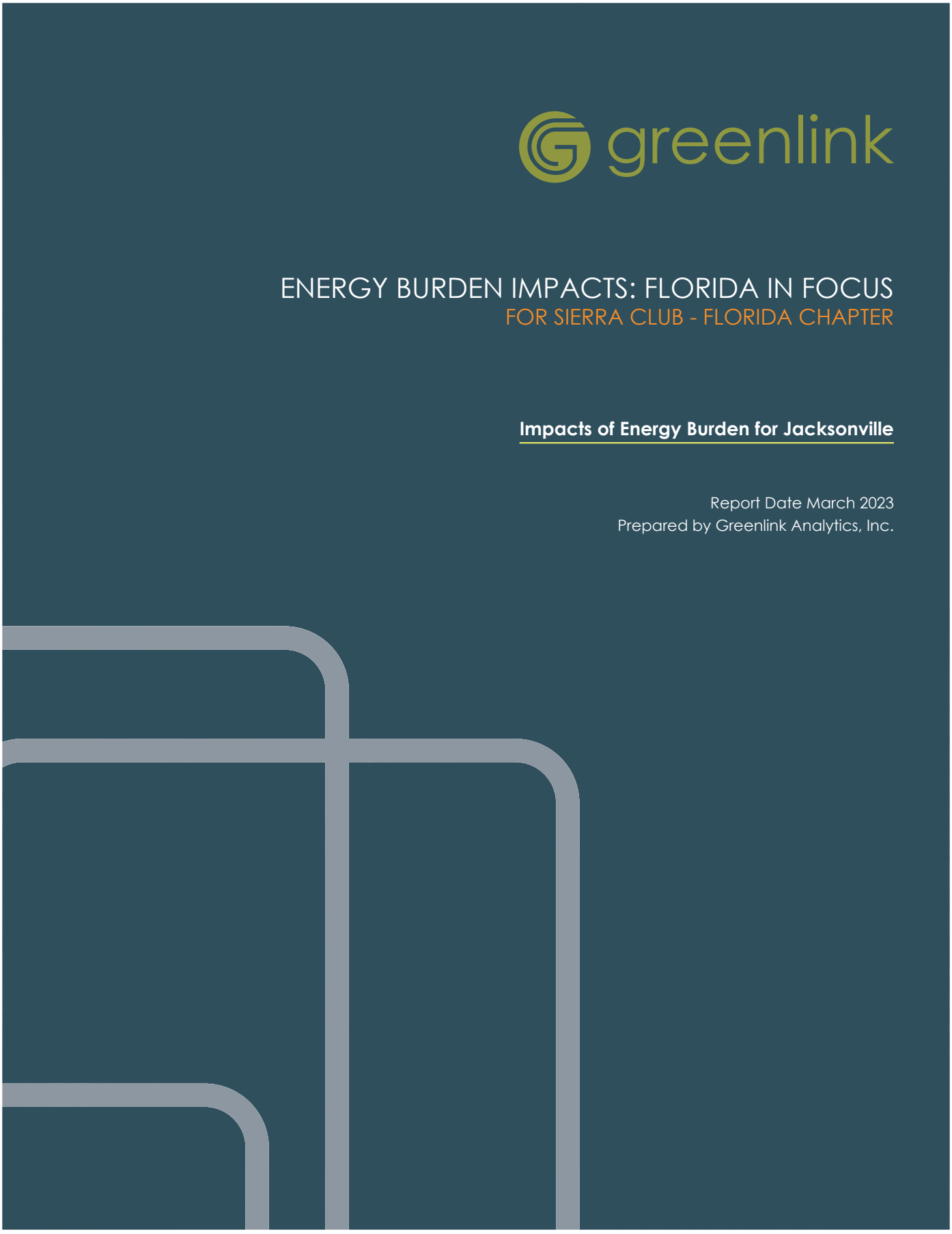
	Annual Summer MW	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
ResProgram1	Res Existing Home	0.0886	0.0895	0.0908	0.0924	0.0943	0.0963	0.0990	0.1025	0.1068	0.1118
ResProgram2	Res Efficiency Delivered	0.0094	0.0094	0.0094	0.0095	0.0096	0.0097	0.0098	0.0101	0.0103	0.0107
ResProgram3	Res New Home	0.0088	0.0090	0.0092	0.0095	0.0098	0.0102	0.0106	0.0111	0.0117	0.0124
	Residential Total	0.1067	0.1079	0.1094	0.1114	0.1138	0.1161	0.1194	0.1236	0.1288	0.1349
ComProgram1	Com Prescriptive	0.0845	0.0882	0.0908	0.0931	0.0950	0.0964	0.0973	0.0978	0.0978	0.0975
ComProgram2	Com Lighting	0.1948	0.2101	0.2217	0.2316	0.2397	0.2459	0.2503	0.2531	0.2544	0.2543
ComProgram3	Com Custom	0.2058	0.2355	0.2648	0.2955	0.3260	0.3544	0.3782	0.3950	0.4031	0.4024
	Non-Residential Total	0.4851	0.5338	0.5774	0.6202	0.6607	0.6967	0.7258	0.7459	0.7553	0.7542
	Portfolio Total	0.5919	0.6417	0.6868	0.7316	0.7745	0.8129	0.8452	0.8695	0.8841	0.8891

	Annual Winter MW	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
ResProgram1	Res Existing Home	0.1435	0.1525	0.1611	0.1699	0.1786	0.1869	0.1961	0.2066	0.2185	0.2318
ResProgram2	Res Efficiency Delivered	0.0119	0.0126	0.0133	0.0141	0.0148	0.0155	0.0162	0.0171	0.0181	0.0192
ResProgram3	Res New Home	0.0199	0.0212	0.0225	0.0238	0.0250	0.0262	0.0276	0.0291	0.0308	0.0327
	Residential Total	0.1753	0.1863	0.1970	0.2077	0.2184	0.2286	0.2399	0.2528	0.2674	0.2837
ComProgram1	Com Prescriptive	0.0912	0.0949	0.0975	0.0997	0.1015	0.1028	0.1036	0.1040	0.1040	0.1036
ComProgram2	Com Lighting	0.2009	0.2167	0.2287	0.2389	0.2473	0.2536	0.2581	0.2610	0.2624	0.2623
ComProgram3	Com Custom	0.0879	0.0997	0.1115	0.1240	0.1365	0.1482	0.1578	0.1639	0.1656	0.1627
	Non-Residential Total	0.3799	0.4113	0.4376	0.4626	0.4853	0.5046	0.5195	0.5289	0.5320	0.5285
	Portfolio Total	0.5552	0.5976	0.6346	0.6703	0.7038	0.7332	0.7594	0.7817	0.7993	0.8122

	Annual Participation	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
ResProgram1	Res Existing Home	517	511	509	505	506	506	511	520	533	548
ResProgram2	Res Efficiency Delivered	40	42	42	44	43	42	46	47	48	51
ResProgram3	Res New Home	45	46	47	47	48	52	52	55	57	60
	Residential Total	602	599	598	596	597	600	609	622	638	659
ComProgram1	Com Prescriptive	1,521	1,612	1,675	1,726	1,763	1,790	1,803	1,813	1,814	1,807
ComProgram2	Com Lighting	4,329	4,627	4,836	5,005	5,134	5,223	5,277	5,312	5,321	5,306
ComProgram3	Com Custom	1,827	1,977	2,099	2,207	2,299	2,374	2,437	2,486	2,519	2,538
	Non-Residential Total	7,677	8,216	8,610	8,938	9,196	9,387	9,517	9,611	9,654	9,651
	Portfolio Total	8,279	8,815	9,208	9,534	9,793	9,987	10,126	10,233	10,292	10,310

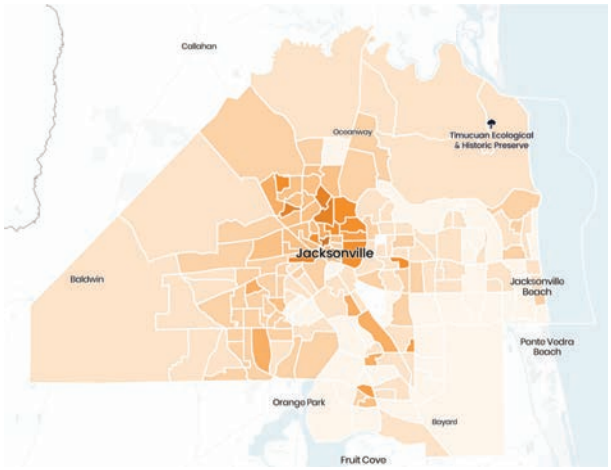
	Budgets $ in thousands	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
ResProgram1	Res Existing Home	$2,100	$2,306	$2,499	$2,686	$2,868	$3,037	$3,216	$3,415	$3,633	$3,875
ResProgram2	Res Efficiency Delivered	$91	$98	$104	$110	$116	$122	$128	$134	$142	$151
ResProgram3	Res New Home	$137	$149	$160	$171	$182	$192	$202	$214	$228	$242
	Residential Total	$2,328	$2,552	$2,763	$2,967	$3,166	$3,350	$3,547	$3,763	$4,003	$4,268
ComProgram1	Com Prescriptive	$99	$102	$104	$106	$107	$107	$108	$107	$107	$107
ComProgram2	Com Lighting	$201	$215	$225	$233	$239	$243	$246	$248	$248	$248
ComProgram3	Com Custom	$131	$147	$163	$180	$196	$211	$224	$233	$237	$237
	Non-Residential Total	$431	$465	$493	$519	$542	$562	$578	$588	$593	$592
	Portfolio Total	$2,759	$3,017	$3,256	$3,486	$3,708	$3,912	$4,124	$4,352	$4,596	$4,859

	Program Cost-Effectiveness	TRC		PCT		RIM	
		Net Benefits ($)	Benefit/Cost Ratio	Net Benefits ($)	Benefit/Cost Ratio	Net Benefits ($)	Benefit/Cost Ratio
ResProgram1	Res Existing Home	-1,439,576	0.9	12,998,056	3.4	-14,437,631	0.3
ResProgram2	Res Efficiency Delivered	-341,217	0.6	935,030	3.0	-1,276,247	0.3
ResProgram3	Res New Home	-144,686	0.9	1,787,071	3.7	-1,931,757	0.3
	Residential Total	**-1,925,478**	**0.84**	**15,720,157**	**3.40**	**-17,645,636**	**0.29**
ComProgram1	Com Prescriptive	185,353	1.1	5,594,996	3.2	-5,409,642	0.4
ComProgram2	Com Lighting	173,098	1.0	14,591,930	3.1	-14,418,832	0.4
ComProgram3	Com Custom	1,078,887	1.2	12,025,921	3.4	-10,947,034	0.4
	Non-Residential Total	**1,437,337**	**1.09**	**32,212,846**	**3.20**	**-30,775,509**	**0.36**
	Portfolio Total	**-488,141**	**0.98**	**47,933,004**	**3.26**	**-48,421,145**	**0.34**


greenlink
ENERGY BURDEN IMPACTS: FLORIDA IN FOCUS
FOR SIERRA CLUB - FLORIDA CHAPTER
Impacts of Energy Burden for Jacksonville
Report Date March 2023
Prepared by Greenlink Analytics, Inc.

Energy Burden in Jacksonville at a Glance

GEM Map of Jacksonville



Jacksonville (Duval County)

On average, households nationally pay about 4.1% of their income on energy (gas and electricity) bills. As of 2019, Jacksonville's average energy burden is 4.3% in 2019, .2% higher than the national average. However, the energy burden is not distributed evenly across neighborhoods. When energy burden is mapped across the city, data shows that it disproportionately impacts residents in the Northern and Central portions of the city. For 2019, the 5% least burdened tracts in the city have an average energy burden of 1.7%, below the national average, whereas the 5% most burdened tracts have an average energy burden of 13%, 3.2x higher than the national average.

The table below shows how Jacksonville compares on energy burden and how it's changed over time.

Table 1. Median Energy Burdens Over Time

	2013 Overall	2019 Overall	Change
Jacksonville (Duval)	5.6%	4.3%	-1.3%
Florida	4.5%	3.8%	-0.7%
Florida Cities	4.8%	3.8%	-1.0%
National[1]	4.8%	4.1%	-0.7%

Jacksonville's Energy Burden: Change Over Time and Neighborhood Disparities

In 2013, Jacksonville's median energy burden of 5.6% was above the national average and nearing the unaffordable energy burden threshold of 6% (Table 1). It was, however, above the Florida median of 4.5%. Energy burden decreased by 1.3% by 2019 but remained above the national average. This improvement was driven primarily by income and energy bills - as incomes increased, energy costs also increased but at a slower rate than incomes grew. The data shows wide disparities between the top 5% most burdened and 5% least burdened census tracts in the city[2]. The 5% least energy burdened tracts had a median burden of 2.1% in 2013 and 1.7% in 2019, below the national average in both years. By comparison, the 5% most burdened tracts in the city had an energy burden of 17.7% in 2013 and 13% in 2019, indicating continuing levels of severe energy burdens in these neighborhoods across time.

Table 2, below, shows how the number of households living with the highest energy burdens changed between 2013 and 2019. Jacksonville saw its total number of households increase from 329020 in 2013 to 352295 in 2019.

1. National data from the US Energy Information Administration (Forms 861 and 176) and the US Census.
2. Most and least burdened tracts are defined by the household-weighted average census tract energy burden from 2013-2019 and represent the top and bottom quintiles.National data from the US Energy Information Administration (Forms 861 and 176) and the US Census.

Energy Burden in Jacksonville at a Glance

Table 2. Number of Households in High and Severe Energy Burden (Jacksonville)

Total HH 2013: 329020

Total HH 2019: 352295

	High Energy Burden (>6%)	Severe Energy Burden (>10%)
2013	135533	80963
2019	111480	60449

Intersectional Issues: Equity Indicators Correlated with Jacksonville's Energy Burden

Energy burden in Jacksonville is connected to a cluster of health, housing, and racial inequities. Across these years of data, Jacksonville's energy burdens are strongly correlated with income stress, lack of healthcare access, asthma rates, diabetes rates, stroke rates, chronic obstructive pulmonary disease, and the Black/African American population. It shows moderate correlations with other chronic health issues such as chronic heart disease and mental health. Given these relationships, there may be opportunities to improve outcomes by increasing efforts that emphasize energy, health, and race. Identifying these relationships may open doors for interdisciplinary collaboration outside City Hall, as well as interdepartmental collaboration within City Hall, ultimately advancing strong equity improvements at large.

Centering Energy Justice

Unequal and disproportionate rates of energy burden can be found in certain geographic areas and racial groups throughout Jacksonville. In 2019, the census tracts within the top 5% had an average energy burden of 13%, whereas the census tracts within bottom 5% had an average energy burden of 1.7%. By comparison, 100% of the Black and/or African American population were within the top 5%, whereas 89% of the White population were within the bottom 5%. Given these geographic and racial disparities, setting energy justice targets in policy and program design is imperative to ensuring the clean energy transition is deployed equitably.

Summary

- Jacksonville experiences energy burdens 13.1% higher than the national average.
- Since 2013, energy burden has decreased by 1.3% across the city and 4.7% across the most burdened communities. The number of households with unaffordable energy costs has fallen by 44,567, although 171,929 continue to face high energy burdens. Over this time period, a 7.6x disparity exists in Jacksonville's average energy burdens between the 5% least burned and 5% most burdened communities, which highlights the need for additional resources to address energy burden in top burdened neighborhoods.
- Energy burden in Jacksonville is connected to other inequities: Income stress, lack of healthcare access, and chronic health issues such as asthma rates, diabetes rates, stroke rates, and chronic obstructive pulmonary disease show strong positive correlations with energy burden (R>.7). Additionally, as the Black/African American population increases so does the likelihood of experiencing energy burden.
- Other moderately positive correlated inequities (R > .5) include chronic heart disease and mental health.
- Census tracts within the top 5% had an average energy burden of 13%, whereas the census tracts within bottom 5% had an average energy burden of 1.7%.
- By comparison, 100% of the Black and/or African American population were within the top 5% of energy burden, whereas 89% of the White population were within the bottom 5%.

Footnotes

There are several indicators that are strongly correlated with energy burden in Jacksonville. These are related to income and a slew of healthcare related issues along with the Black population. Energy burden has a strong relationship with majority (>50%) black neighborhoods. Moderate correlations include CHD and mental health (R > .5) In fact, the White population has a negative correlation with energy burden meaning that it is actually less likely to be seen in predominantly White census tract.

Authors



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DATA SCIENTIST

Sharanya is a Data Scientist at Greenlink Analytics. She applies advanced geospatial data science techniques to acquire and generate new data sets for the Greenlink Equity Map (GEM). She also performs statistical analysis and develops other software solutions to further study the intersection of utility burdens and racial and social equity. Sharanya received her Bachelor's in Industrial Engineering from Purdue University and Master's in Environmental Conservation with a concentration in Environmental Observation and Informatics from the University of Wisconsin-Madison. She is an advocate for equitable food access and enjoys volunteering within the sustainable farming community in her free time.



Angelica Chavez Duckworth

GEM STRATETIC DEVELOPMENT MANAGER

Jellie is the GEM Strategic Development Manager at Greenlink Analytics. She helps guide the development of the Greenlink Equity Map (GEM) to improve equitable processes and programming across the U.S. Jellie is a trilingual, community-centered climate justice professional focused on addressing the climate crisis at the intersections of health and cultural equity.

Jellie holds a Bachelor's Degree in Sociology with an emphasis in Cultural Anthropology from the University of Missouri - Kansas City.

Matt Cox, PhD

CEO & EXECUTIVE DIRECTOR

Matt Cox, PhD, is the CEO and Executive Director of Greenlink Analytics, a clean energy research non-profit based in Atlanta, GA. In this role, Matt provides domain expertise for Greenlink's energy and resource analysis software tools and serves as an expert on energy efficiency strategies, renewable energy deployment, and system operations in the electric power sector.

He is the author of over 100 scientific publications in energy policy, renewable energy, energy efficiency, economic development, and job creation, the social and environmental impacts of energy use, and water policy.



Michael Gilley

PROGRAM MANAGER

Michael is the Program Manager at Greenlink Analytics. Michael assists in optimizing workflow efficiencies, project management, and scalability.

Prior to joining Greenlink, Michael was a Sr. Manager, Partner Success and a Sr. Editor, at FloSports. During his time at FloSports, Michael led the successful launch of 2 channels, FloMarching and FloBowling, overseeing growth from their infancy to profitability. He brings a wide array of experience to Greenlink including graphic design, user design, department management, and production management.

RESIDENTIAL SUMMARY

values at meter

sMW

	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Residential Incentive Program	4.0	4.2	4.4	4.5	4.8	4.6	4.6	4.7	4.8	4.8	45.4
Home Energy Check	3.7	3.6	3.6	3.5	3.5	3.5	3.4	3.4	3.3	3.3	34.7
Low Income Weatherization	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	7.1
Neighborhood Energy Saver	7.2	7.2	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	74.7
Energy Wise	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	35.0
Total	19.1	19.2	19.7	19.8	20.1	19.8	19.8	19.8	19.8	19.9	197.0

wMW

	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Residential Incentive Program	8.5	9.0	9.5	10.1	10.8	9.5	9.5	9.5	9.6	9.7	95.6
Home Energy Check	6.7	6.6	6.6	6.5	6.4	6.4	6.3	6.2	6.2	6.1	64.1
Low Income Weatherization	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	4.5
Neighborhood Energy Saver	8.6	8.6	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	89.5
Energy Wise	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	50.6
Total	29.3	29.8	30.7	31.1	31.8	30.4	30.4	30.3	30.3	30.3	304.3

GWh

	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Residential Incentive Program	10.8	11.5	12.1	12.8	13.8	13.3	13.7	14.2	14.7	15.2	132.1
Home Energy Check	15.7	15.2	15.1	14.9	14.8	14.6	14.5	14.4	14.2	14.1	147.6
Low Income Weatherization	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	15.6
Neighborhood Energy Saver	18.0	18.0	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	186.4
Energy Wise	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	46.0	46.3	47.6	48.1	49.0	48.3	48.6	48.9	49.2	49.6	481.6

2023 line loss factor(retail) 1.051390938

RESIDENTIAL SUMMARY
values at generator

sMW

	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Residential Incentive Program	4.2	4.4	4.6	4.8	5.1	4.8	4.8	4.9	5.0	5.1	47.7
Home Energy Check	3.8	3.8	3.7	3.7	3.7	3.6	3.6	3.6	3.5	3.5	36.5
Low Income Weatherization	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	7.4
Neighborhood Energy Saver	7.6	7.6	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	78.6
Energy Wise	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	36.9
Total	20.1	20.2	20.7	20.8	21.1	20.8	20.8	20.8	20.9	20.9	207.1

wMW

	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Residential Incentive Program	8.9	9.5	10.0	10.6	11.3	9.9	10.0	10.0	10.1	10.2	100.5
Home Energy Check	7.1	7.0	6.9	6.8	6.8	6.7	6.6	6.6	6.5	6.4	67.4
Low Income Weatherization	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	4.7
Neighborhood Energy Saver	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	94.1
Energy Wise	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	53.2
Total	30.8	31.3	32.2	32.7	33.4	31.9	31.9	31.9	31.8	31.8	319.9

GWh

	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Residential Incentive Program	11.4	12.1	12.8	13.4	14.5	14.0	14.4	14.9	15.4	16.0	138.8
Home Energy Check	16.5	16.0	15.9	15.7	15.6	15.4	15.2	15.1	14.9	14.8	155.1
Low Income Weatherization	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	16.4
Neighborhood Energy Saver	18.9	18.9	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	196.0
Energy Wise	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	48.4	48.7	50.1	50.6	51.5	50.8	51.1	51.5	51.7	52.1	506.4

											Total
RES EE Winter	25.5	26.0	26.9	27.4	28.1	26.6	26.6	26.6	26.5	26.5	
RES DR Winter	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	53
RES EE Summer	16.4	16.5	17.0	17.2	17.4	17.1	17.1	17.2	17.2	17.2	
RES DR Summer	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	37
RES EE GWH	48.4	48.7	50.1	50.6	51.5	50.8	51.1	51.5	51.7	52.1	