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Jacksonville, Florida 32202-3139



E L E C T R I C

W A T E R

S E W E R

March 01, 2023

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, 2023 FEECA Annual Report

Dear Mr. Barrett:

Enclosed is JEA's 2023 FEECA annual report on Demand Side Management activities.

The data confirms that JEA has exceeded its FEECA goals for 2022. The attached summary contains the relevant details.

If you have any questions, please do not hesitate to contact me at (904) 603-4881.

Sincerely,

/s/

A handwritten signature in black ink that reads 'Brian Pippin'.

Brian Pippin
JEA - Director Customer Experience Insights & Solutions

Encl: 2023 FEECA Annual Report

JEA 2023 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.

2022 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: **2022**

Total

Year	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
	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		0.967			1.080			2.58	
2024		0.967			1.080			2.58	

Residential

Year	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
	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		0.960			0.940			2.50	
2024		0.960			0.940			2.50	

Commercial/Industrial

Year	Winter Peak MW Reduction			Summer Peak MW Reduction			GWh Energy Reduction		
	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		0.007			0.140			0.08	
2024		0.007			0.140			0.08	

** - Variance calculated based on unrounded values

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Program Name: REA: Residential Energy Audits
 Program Start Date: 1978
 Reporting Period: **2022**

a	b	c	d	e	f	g	h	i
	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)
<u>Year</u>	<u>Customers</u>	<u>Customers</u>	<u>Participants</u>	<u>(d/cx100)</u>	<u>Participants</u>	<u>Participants</u>	<u>(g/c)</u>	<u>(g-d)</u>
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%				
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	1,238.7	1,288.2
Winter kW Reduction	0.100	0.104	1,238.7	1,288.2
kWH Reduction	200	208	2,477,400.0	2,576,496.0

Utility Cost per Installation \$ 102.80
 Total Program Cost of the Utility (Administration and Incentives) \$ 3,793,628

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Program Name: RSWH: Residential Solar Water Heating
 Program Start Date: 2002
 Reporting Period: **2022**

a	b	c	d	e	f	g	h	i
	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)
<u>Year</u>	<u>Customers</u>	<u>Customers</u>	<u>Participants</u>	<u>(d/cx100)</u>	<u>Participants</u>	<u>Participants</u>	<u>(g/c)</u>	<u>(g-d)</u>
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%				
2024	450,901	450,901	10	0.002%				

Estimated Annual Demand and Energy Savings

	Per Installation		Program Total	
	<u>@meter</u>	<u>@generator</u>	<u>@meter</u>	<u>@generator</u>
Summer kW Reduction	0.420	0.436	0.0	0.0
Winter kW Reduction	0.475	0.493	0.0	0.0
kWH Reduction	2,322	2,410	0.0	0.0

Utility Cost per Installation \$ 1,130
 Total Program Cost of the Utility (Administration and Incentives) \$ -

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Program Name: NEE: Neighborhood Energy Efficiency
 Program Start Date: 2008
 Reporting Period: **2022**

a	b	c	d	e	f	g	h	i
	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)
<u>Year</u>	<u>Customers</u>	<u>Customers</u>	<u>Participants</u>	<u>(d/cx100)</u>	<u>Participants</u>	<u>Participants</u>	<u>(g/c)</u>	<u>(g-d)</u>
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%				
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	777.2	806.8
Winter kW Reduction	0.37	0.384	522.8	542.6
kWH Reduction	1,044	1,084	1,475,172.0	1,531,692.0

Utility Cost per Installation \$ 518
 Total Program Cost of the Utility (Administration and Incentives) \$ 2,187,418

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Program Name: CEA: Commercial Energy Audits
 Program Start Date: 1978
 Reporting Period: **2022**

a	b	c	d	e	f	g	h	i
	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)
<u>Year</u>	<u>Customers</u>	<u>Customers</u>	<u>Participants</u>	<u>(d/cx100)</u>	<u>Participants</u>	<u>Participants</u>	<u>(g/c)</u>	<u>(g-d)</u>
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%				
2024	56,784	56,784	500	0.9%				

Estimated Annual Demand and Energy Savings

	Per Installation		Program Total	
	<u>@meter</u>	<u>@generator</u>	<u>@meter</u>	<u>@generator</u>
Summer kW Reduction	0.120	0.125	38.4	40.0
Winter kW Reduction	0.120	0.125	38.4	40.0
kWH Reduction	540	562	172,800.0	179,840.0

Utility Cost per Installation \$ 221
 Total Program Cost of the Utility (Administration and Incentives) \$ 140,335

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Program Name: CPL: Commercial Prescriptive Lighting
 Program Start Date: 2009
 Reporting Period: **2022**

a	b	c	d	e	f	g	h	i
	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)
<u>Year</u>	<u>Customers</u>	<u>Customers</u>	<u>Participants</u>	<u>(d/cx100)</u>	<u>Participants</u>	<u>Participants</u>	<u>(g/c)</u>	<u>(g-d)</u>
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%				
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	432.0	448.2
Winter kW Reduction	3.9	4.0	210.6	216.0
kWH Reduction	42,100	43,700	2,273,400.0	2,359,800.0

Utility Cost per Installation \$ 1,900
 Total Program Cost of the Utility (Administration and Incentives) \$ 473,100