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VIA ELECTRONIC FILING

Ms. Carlotta S. Stauffer
Commission Clerk
Florida Public Service Commission
Betty Easley Conference Center
2540 Shumard Oak Boulevard, Room 110
Tallahassee, FL 32399-0850

Re: Docket No. 2018016-EI
FPL's Responses to Staff's Second Data Request

Dear Ms. Stauffer:

Enclosed are Florida Power & Light Company's responses to Staff's Second Data Request (Nos. 1-5) in Docket No. 20180160-EI.

Please contact me if you or your Staff has any questions regarding this filing.

Sincerely,

s/ Maria J. Moncada
Maria J. Moncada

Enclosures
cc: Riley Doherty
Johana Nieves

:6971634

QUESTION:

Referring to the table provided in response to staff's data request No. 1, please provide a breakdown of the O&M costs shown on line B for the estimated 2018 amount (\$713).

RESPONSE:

See the below detail for FPL's projected 2018 O&M expense for the SolarNow program.

Description	2018 Projected O&M
Administrative and General	\$91,515
Marketing Related ¹	\$573,421
Non-Marketing Related Outside Services ²	\$20,258
Rents	\$27,712
Total	\$712,906

¹ Marketing related expenses consists of email campaigns, social media, graphic design services, sweepstakes costs.

² Non marketing related expenses consist of costs to operate and maintain the solar installations.

QUESTION:

Referring to the table provided in response to staff's data request No. 1, please explain why for the years 2016 and 2018, line C (other operating costs) is a negative number.

RESPONSE:

Please see Attachment 1 to this Data Request for the calculation of Other Operating Costs as reflected on Line C of FPL's response to Staff's 1st Set of Data Requests No. 1. The negative amount of Operating Costs is attributable to the increase in Income Tax Credit (ITC) amortization, which is reflected in the attached calculation.

SolarNow
Actuals Through June 30, 2018

Description	FERC Account	FERC Account Description	2016 Actual	2018 Projected
<u>Other Operating Expense</u>				
ITC Amortization	411	Investment Tax Credit Adjustments	(11,411)	(112,272)
Property Taxes	408	Real & Personal Property Taxes	-	59,808
Tax Other Than Inc Tax-Other	408	Tax Other Than Inc Tax-Other	46	-
Property Insurance	924	Property Insurance		2,708
			(11,365)	(49,756)

Unamortized ITC Balance Summary
2017 Final & 2018 Projected

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Total</u>
Total Qualified Cost	-	1,614,805	1,705,707	18,586,803	21,907,315
ITC Rate	30%	30%	30%	30%	30%
ITC Credit Generated	-	(484,442)	(511,712)	(5,576,041)	(6,572,194)

Unamortized ITC Balance	<u>Dec 2015</u>	<u>Jan 2016</u>	<u>Feb 2016</u>	<u>Mar 2016</u>	<u>Apr 2016</u>	<u>May 2016</u>	<u>Jun 2016</u>	<u>Jul 2016</u>	<u>Aug 2016</u>	<u>Sep 2016</u>	<u>Oct 2016</u>	<u>Nov 2016</u>	<u>Dec 2016</u>
Beginning Bal	0	0	(193,867)	(207,093)	(216,881)	(216,314)	(370,844)	(371,615)	(379,547)	(378,652)	(380,587)	(382,235)	(473,904)
ITC Generated	0	(194,407)	(13,804)	(10,395)	(40)	(155,569)	(1,815)	(9,002)	(175)	(3,014)	(2,734)	(93,014)	(472)
ITC Amortized	0	540	578	607	607	1,039	1,045	1,070	1,070	1,078	1,086	1,344	1,346
Unamortized ITC Balance	0	(193,867)	(207,093)	(216,881)	(216,314)	(370,844)	(371,615)	(379,547)	(378,652)	(380,587)	(382,235)	(473,904)	(473,031)

(236,515)

ITC Amortization Period (months)	360													
ITC Amortization	ITC Amount	<u>Dec 2015</u>	<u>Jan 2016</u>	<u>Feb 2016</u>	<u>Mar 2016</u>	<u>Apr 2016</u>	<u>May 2016</u>	<u>Jun 2016</u>	<u>Jul 2016</u>	<u>Aug 2016</u>	<u>Sep 2016</u>	<u>Oct 2016</u>	<u>Nov 2016</u>	<u>Dec 2016</u>
Dec 2015	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan 2016	(194,407)		540		540	540	540	540	540	540	540	540	540	540
Feb 2016	(13,804)			38	38	38	38	38	38	38	38	38	38	38
Mar 2016	(10,395)				29	29	29	29	29	29	29	29	29	29
Apr 2016	(40)					0	0	0	0	0	0	0	0	0
May 2016	(155,569)						432	432	432	432	432	432	432	432
Jun 2016	(1,815)							5	5	5	5	5	5	5
Jul 2016	(9,002)								25	25	25	25	25	25
Aug 2016	(175)									0	0	0	0	0
Sep 2016	(3,014)										8	8	8	8
Oct 2016	(2,734)											8	8	8
Nov 2016	(93,014)												258	258
Dec 2016	(472)													1
Jan 2017	(6,284)													
Feb 2017	-													
Mar 2017	-													
Apr 2017	(3,531)													
May 2017	(102,971)													
Jun 2017	(23,920)													
Jul 2017	(1,175)													
Aug 2017	(205,810)													
Sep 2017	(6,874)													
Oct 2017	-													
Nov 2017	-													
Dec 2017	(161,147)													
Jan 2018	-													
Feb 2018	-													
Mar 2018	(1,115,083)													
Apr 2018	-													
May 2018	-													
Jun 2018	(983,548)													
Jul 2018	(750)													
Aug 2018	(250,877)													
Sep 2018	(1,089,586)													
Oct 2018	(1,005,705)													
Nov 2018	(663,552)													
Dec 2018	(466,939)													
Total	(6,572,194)	-	540	578	607	607	1,039	1,045	1,070	1,070	1,078	1,086	1,344	1,346

Unamortized ITC Balance Summary
2017 Final & 2018 Projected

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Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018	Bal @ Dec 2018	
(962,141)	(959,374)	(956,607)	(2,065,826)	(2,059,962)	(2,054,097)	(3,029,048)	(3,021,199)	(3,262,781)	(4,340,045)	(5,330,634)	(5,977,227)	0	
0	0	(1,115,083)	0	0	(983,548)	(750)	(250,877)	(1,089,586)	(1,005,705)	(663,552)	(466,939)	(6,572,194)	
2,767	2,767	5,865	5,865	5,865	8,597	8,599	9,296	12,322	15,116	16,959	18,256	146,284	
(959,374)	(956,607)	(2,065,826)	(2,059,962)	(2,054,097)	(3,029,048)	(3,021,199)	(3,262,781)	(4,340,045)	(5,330,634)	(5,977,227)	(6,425,910)	(6,425,910)	
(3,692,642)												-	
Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018	Amortization	Unamortized Bal
0	0	0	0	0	0	0	0	0	0	0	0	0	-
540	540	540	540	540	540	540	540	540	540	540	540	19,441	(174,966)
38	38	38	38	38	38	38	38	38	38	38	38	1,342	(12,462)
29	29	29	29	29	29	29	29	29	29	29	29	982	(9,413)
0	0	0	0	0	0	0	0	0	0	0	0	4	(37)
432	432	432	432	432	432	432	432	432	432	432	432	13,828	(141,741)
5	5	5	5	5	5	5	5	5	5	5	5	156	(1,659)
25	25	25	25	25	25	25	25	25	25	25	25	750	(8,252)
0	0	0	0	0	0	0	0	0	0	0	0	14	(161)
8	8	8	8	8	8	8	8	8	8	8	8	234	(2,779)
8	8	8	8	8	8	8	8	8	8	8	8	205	(2,529)
258	258	258	258	258	258	258	258	258	258	258	258	6,718	(86,296)
1	1	1	1	1	1	1	1	1	1	1	1	33	(439)
17	17	17	17	17	17	17	17	17	17	17	17	419	(5,865)
-	-	-	-	-	-	-	-	-	-	-	-	0	-
-	-	-	-	-	-	-	-	-	-	-	-	0	-
10	10	10	10	10	10	10	10	10	10	10	10	206	(3,325)
286	286	286	286	286	286	286	286	286	286	286	286	5,721	(97,251)
66	66	66	66	66	66	66	66	66	66	66	66	1,262	(22,657)
3	3	3	3	3	3	3	3	3	3	3	3	59	(1,117)
572	572	572	572	572	572	572	572	572	572	572	572	9,719	(196,091)
19	19	19	19	19	19	19	19	19	19	19	19	305	(6,568)
-	-	-	-	-	-	-	-	-	-	-	-	0	-
-	-	-	-	-	-	-	-	-	-	-	-	0	-
448	448	448	448	448	448	448	448	448	448	448	448	5,819	(155,328)
-	-	-	-	-	-	-	-	-	-	-	-	0	-
-	-	-	-	-	-	-	-	-	-	-	-	0	-
-	-	3,097	3,097	3,097	3,097	3,097	3,097	3,097	3,097	3,097	3,097	30,975	(1,084,109)
-	-	-	-	-	-	-	-	-	-	-	-	0	-
-	-	-	-	-	-	-	-	-	-	-	-	0	-
-	-	-	-	-	2,732	2,732	2,732	2,732	2,732	2,732	2,732	19,125	(964,423)
-	-	-	-	-	-	2	2	2	2	2	2	12	(737)
-	-	-	-	-	-	-	697	697	697	697	697	3,484	(247,393)
-	-	-	-	-	-	-	-	3,027	3,027	3,027	3,027	12,107	(1,077,480)
-	-	-	-	-	-	-	-	-	2,794	2,794	2,794	8,381	(997,324)
-	-	-	-	-	-	-	-	-	-	1,843	1,843	3,686	(659,866)
-	-	-	-	-	-	-	-	-	-	-	1,297	1,297	(465,642)
-	-	-	-	-	-	-	-	-	-	-	-	0	-
2,767	2,767	5,865	5,865	5,865	8,597	8,599	9,296	12,322	15,116	16,959	18,256	-	146,284
												(6,425,910)	

QUESTION:

Referring to the table provided in response to staff's data request No. 1, please show the calculation for the \$38,000 and \$43,000 fuel savings shown on line J.

RESPONSE:

The calculation for fuel saving represented in staff's first data request No. 1, Attachment No. 1, is as follows:

$\$37,632 = 1,725,457 \text{ kWh} * (1 \text{ MWh}/1,000 \text{ kWh} * \$21.81)$ which is defined as:

Fuel Savings = Annual MWh * Annual Avg "As Available Energy" Price

$\$43,471 = \$1,821 + \$4,025 + \$37,625$ and represents the four year cumulative fuel savings

System Fuel & Emissions Savings

I/O	Site	Actual COD	NOTES	Total Capacity	ACT	ACT	ACT	ACT	ACT	ACT
					2015	2015	2015	2015	2015	2015
					1/1/2015	2/1/2015	3/1/2015	4/1/2015	5/1/2015	6/1/2015
	Palm Beach Zoo	5/27/2016		100						
	Palmetto Estuary Park	12/15/2016		100						
	Brevard Zoo	5/3/2017		50						
	Solar Tress Bucket				0	0	0	0	0	0
Legacy Site Total					0	0	0	0	0	0
PIPELINE TOTAL w/o Legacy					0	0	0	0	0	0
GRAND Total					0	0	0	0	0	0
Generation after Transmission Grossup				5.00%	-	-	-	-	-	-

	2015 Actual	2016 Actual	2017 Actual	2018 Estimated
Generation (kWh)	0	92,396	188,844	1,725,457
Avoided Cost (MWh)		19.7035	21.31	21.81
Sytem Benefits (SUSD)		\$ 1,821	\$ 4,025	\$ 37,625
		2	4	38
				43

Monthly Average On-Peak "As-Available" Energy Price

	2016	2017	2018
Jan-16	13.84	19.02	25.69
Feb-16	12.03	16.67	15.99
Mar-16	10.58	17.24	15.76
Apr-16	12.82	24.60	19.50
May-16	13.98	25.73	20.70
Jun-16	23.66	23.28	27.06
Jul-16	38.97	23.15	22.83
Aug-16	34.62	27.50	22.83
Sep-16	20.66	22.51	22.83
Oct-16	20.26	21.23	22.83
Nov-16	14.59	17.97	22.83
Dec-16	20.44	16.86	22.83
Average	19.70	21.31	21.81

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ACT 2015	ACT 2015	ACT 2015	ACT 2015	ACT 2015	ACT 2015	ACT 2016	ACT 2016	ACT 2016	ACT 2016	ACT 2016	ACT 2016	ACT 2016
7/1/2015	8/1/2015	9/1/2015	10/1/2015	11/1/2015	12/1/2015	1/1/2016	2/1/2016	3/1/2016	4/1/2016	5/1/2016	6/1/2016	6/1/2016
									3,418	3,514	3,044	4,645
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	3,418	3,514	7,689
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	3,418	3,514	7,689
-	-	-	-	-	-	-	-	-	-	3,598	3,699	8,094

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ACT 2016	ACT 2016	ACT 2016	ACT 2016	ACT 2016	ACT 2016	ACT 2017	ACT 2017	ACT 2017	ACT 2017	ACT 2017	ACT 2017
7/1/2016	8/1/2016	9/1/2016	10/1/2016	11/1/2016	12/1/2016	1/1/2017	2/1/2017	3/1/2017	4/1/2017	5/1/2017	6/1/2017
3,533	2,931	2,369	1,254						1,047	4,996	2,797
15,330	13,574	10,763	9,610	7,760	2,936	1,390	5,959	3,283	1,653	416	3,181
					3,096	6,310	6,897	9,136	9,163	9,544	6,941
0	0	0	0	0	0	0	0	0	0	0	0
18,862	16,505	13,132	10,863	7,760	6,032	7,700	12,857	12,419	11,863	14,956	12,918
0	0	0	0	0	0	0	0	0	0	0	0
18,862	16,505	13,132	10,863	7,760	6,032	7,700	12,857	12,419	11,863	14,956	12,918
19,855	17,374	13,823	11,435	8,169	6,349	8,105	13,533	13,072	12,487	15,743	13,598

ACT 2017	ACT 2017	ACT 2017	ACT 2017	ACT 2017	ACT 2017	ACT 2018	ACT 2018	ACT 2018	ACT 2018	ACT 2018	ACT 2018	ACT 2018	ACT 2018	ACT 2018	ACT 2018	ACT 2018	ACT 2018
7/1/2017	8/1/2017	9/1/2017	10/1/2017	11/1/2017	12/1/2017	1/1/2018	2/1/2018	3/1/2018	4/1/2018	5/1/2018	6/1/2018	7/1/2018	8/1/2018	9/1/2018	10/1/2018	11/1/2018	12/1/2018
1,895	0	1,679	816									12,674	12,674	12,674	12,674	12,674	12,674
6,253	13,751	9,315	6,919	6,709	8,540	8,534	11,000	14,500	14,300	11,000	12,200	12,674	12,674	12,674	12,674	12,674	12,674
7,573	8,049	7,188	6,978	6,293	6,031	4	2,260	8,820	8,910	7,360	8,470	6,337	6,337	6,337	6,337	6,337	6,337
1,078	2,790	2,249	1,064	625	893	1,440	1,833	5,816	20,240	43,139	80,097	127,482	127,450	231,636	231,579	231,521	239,490
15,721	21,800	18,182	14,714	13,002	14,571	8,538	13,260	23,320	23,210	18,360	20,670	31,684	31,684	31,684	31,684	31,684	31,684
1,078	2,790	2,249	1,064	625	893	1,440	1,833	5,816	20,240	43,139	80,097	127,482	127,450	231,636	231,579	231,521	239,490
16,799	24,591	20,432	15,778	13,627	15,463	9,978	15,093	29,136	43,450	61,499	100,767	159,166	159,134	263,320	263,263	263,205	271,174
17,683	25,885	21,507	16,608	14,344	16,277	10,503	15,887	30,669	45,737	64,736	106,071	167,543	167,509	277,179	277,118	277,058	285,446

QUESTION:

Please provide the forecasted number of participants for December 2018.

RESPONSE:

FPL is forecasting participation will reach 40,550 by month end December 2018.

QUESTION:

Please provide the average installed \$ per kW cost of the currently installed solar facilities and a discussion on whether the cost is reasonable for small solar installations.

RESPONSE:

As of June 30, 2018, the SolarNow program had 1,092.7 kW_{DC} of capacity installed at a total cost of \$10,758,554, which yields an average installed price of \$9,846/kW_{DC}, the cost of which is borne by participants through this voluntary program. These projects include various size installations ranging from 3 kW to 200 kW and are comprised of rooftop installations, parking canopies, shade canopies, and solar trees. All of the projects are installed in highly visible locations, many in urban areas, furthering the education and promotion of solar energy in Florida. In order to meet this mission and integrate solar in an appealing way in areas with many visitors, FPL has found it necessary to offer a variety of project designs; what works at a location with a large open parking area may not be appropriate or fit in a small beach front park. Unlike traditional ground mount systems which consist of simple racking understructure, solar canopies and solar trees require more infrastructure to support the raised nature of the solar panels. It is the combination of the project designs, locations, and size that influence price and it is the popularity of certain types of installations among host sites that affect the average price per kW_{DC}. The basis for assessing the reasonableness of the cost is very different than the basis that would be used to assess a program supported by the general body of customers. In the context of this voluntary, participant-funded program, the costs are reasonable based on a variety of factors such as location-specific costs, the level of demand and the number of installations deployed.