



FLORIDA KEYS ELECTRIC COOPERATIVE ASSOCIATION, INC. – FKEC

91630 OVERSEAS HIGHWAY, P.O. BOX 377, TAVERNIER, FL 33070-0377 PHONE (305) 852-2431 FAX: (305) 852-4794

March 18, 2016

Mr. Mark Futrell
Director, Office of Industry Development and Market Analysis
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Dear Mr. Futrell:

Enclosed please find Florida Keys Electric Cooperative's net metering reports for 2015 required by Florida Public Service Commission Rule 25-6.065, F.A.C.

If you have any questions please give me a call.

Sincerely,

A handwritten signature in black ink, appearing to read "Ray Rhash". The signature is fluid and cursive, with a long horizontal stroke at the end.

Ray Rhash
Planning, Rate, and Budget Analyst
Florida Keys Electric Cooperative
305-852-2431 ext 256
Fax 305-852-4794

Florida Keys Electric Cooperative Association, Inc.
Annual Interconnection Report
Reporting Year 2015

10a. Total number of customer-owned renewable generation interconnections as of December 31, 2015.

41

10b. Total kW capacity of customer-owned renewable generation interconnected as of December 31, 2015.

Account #								
3319515001	2.9		4452410012	4.0		4101220500	10.0	
316250011	2.1		6903820013	6.6		101600015	3.0	
1014610010	4.9		4452330010	7.0		5505950012	7.8	
8506890011	4.9		4500152010	7.0		6104801003	9.2	
6107130013	6.9		2500070501	2.8		5102301011	5.0	
503620011	5.4		6317540011	6.9		2812057011	6.9	
151841013	4.9		3109610010	5.0		6507000013	15.5	
8906750010	5.3		520092013	5.1		5102301011	5.0	
1518510012	5.5		7103950014	5.2		8010400010	10.0	
3307370011	4.2		7714800013	8.4		3110751000	25.7	
3520463603	2.3		8914782013	2.0		4406800015	5.1	
2512102804	4.5		5302400011	4.2				
5513560012	4.9		1721430001	8.5				
5718900011	11.0		705780003	2.1				
5400950010	4.7		8114170815	9.7				
						Total	263.1	

10c. Total kWh received by interconnected customers from the electric utility, by month and by year for the calendar year 2015.

Account #		Account #	Account #	Account #	Account #	Account #	Account #	Account #	
2015	3319515001	316250011	1014610010	8506890011	6107130013	503620011	51841013	8906750010	Total
January	436	553	196	559	1375	395	2046	667	6,227
February	571	499	144	761	709	436	1936	759	5,815
March	571	788	169	912	883	410	2112	498	6,343
April	648	1,110	155	503	1284	539	2337	556	7,132
May	756	1,099	193	783	1605	538	3126	865	8,965
June	684	1,556	150	1,385	1626	850	3743	1627	11,521
July	1,030	1,558	97	976	2083	1603	4194	1968	13,529
August	1,093	1,255	490	1,178	2471	703	3781	2,249	13,220
September	1,061	1,290	328	1,684	1601	727	3608	1,957	12,276
October	788	1,119	363	1,248	1345	619	3495	1,883	10,860
November	727	587	206	1,141	940	537	3062	1,646	8,848
December	654	810	232	1,004	1340	477	2742	1,098	8,357
Total	9,039	12,224	2,725	12,134	17,262	7,834	36,182	15,793	113,193

Account #		Account #	Account #	Account #	Account #	Account #	Account #	Account #	
2015	1518510012	3307370011	3520463603	2512102804	5513560012	5718900011	5400950010	4452410012	Total
January	2,236	1,119	1,146	871	1581	976	1526	813	10,258
February	1,392	1,030	726	567	1223	764	1475	609	7,766
March	2,304	1,047	1,523	1,071	1608	1049	1492	766	10,880
April	2,381	1,249	1,456	1,199	2048	1312	1583	769	11,997
May	3,223	1,166	1,475	609	1833	1343	1467	926	12,042
June	1,924	1,254	1,982	566	2075	1605	1962	847	12,215
July	677	1,275	2,272	862	2460	1886	2564	1117	13,133
August	876	1,609	2,508	993	3,201	1933	2,660	1,201	14,081
September	1,232	1,531	1,398	836	2,512	1692	2,527	1,121	13,389
October	2,351	1,384	1,626	546	2,158	1715	2,347	939	13,046
November	3,137	1,553	1,720	558	2,248	1894	2,018	1,503	14,631
December	2,297	1,355	1,814	262	2,181	1,505	1,856	993	12,263
Total	24,030	15,552	20,166	8,950	24,228	17,674	23,477	11,604	145,691

Account #		Account #	Account #	Account #	Account #	Account #	Account #	Account #	
2015	6903820013	4452330010	4500152010	2500070501	6317540011	3109610010	520092013	7103950014	Total
January	378	1,817	1,449	17,640	581	572	2773	226	25,436
February	267	2,113	3,376	15,720	418	320	1600	246	24,060
March	317	1,473	1,259	18,780	626	432	2344	560	25,791
April	232	1,585	1,686	19,920	599	491	3178	456	28,147
May	421	2,027	1,959	21,960	941	697	2419	543	30,967
June	651	1,962	1,821	21,360	622	58	3173	460	30,107
July	673	2,221	2,682	26,880	755	471	4287	545	38,514
August	752	1,920	2,743	25,320	850	513	3,352	369	35,819
September	768	2,057	2,236	17,820	827	501	1,687	540	26,436
October	807	1,973	2,378	19,680	732	412	2,515	490	28,987
November	828	2,273	2,532	22,500	1,003	410	2,570	430	32,546
December	865	1,885	2,271	17,880	1,016	388	2,009	294	26,508
Total	6,959	23,306	26,392	245,460	8,970	5,265	31,907	5,159	353,418

Account #		Account #	Account #	Account #	Account #	Account #	Account #	Account #	
2015	7714800013	8914782013	5302400011	1721430001	705780003	8114170815	4101220500	101600015	Total
January	1,437	609	634	450	406	879	432	1,639	6,496
February	1,522	506	743	373	344	706	364	1,742	5,300
March	1,845	734	586	282	376	891	367	1,837	6,918
April	2,496	624	757	385	341	1,187	293	2,277	8,360
May	1,500	518	964	496	519	1,153	255	2,535	7,940
June	1,464	658	525	568	516	1,299	241	2,610	7,881
July	2,387	862	733	773	607	1,466	228	3,036	10,092
August	3,019	894	1,302	933	591	1,659	198	3,209	11,825
September	1,774	929	892	718	445	1,580	234	2,972	9,544
October	1,528	864	693	459	430	1,269	220	2,681	7,944
November	1,992	599	533	467	641	1,412	246	2,458	8,368
December	999	379	369	461	555	678	279	2,322	6,042
Total	20,963	7,976	8,731	6,395	5,771	14,179	3,357	29,318	96,690

Account #		Account #	Account #	Account #	Account #	Account #	Account #	Account #	
2015	5505950012	6104801003	6507000013	5102301011	8010400010	3110751000	4406800015		Total
January	8,334	713	5,469	713	1,933	3,560	640		21,362
February	6,159	1,907	5,609	1,018	1,809	2,837	695		20,034
March	7,756	708	1,995	984	2,195	3,331	1,112		18,081
April	3,293	1,403	2,590	1,254	2,324	3,989	1,143		15,996
May	3,682	1,246	3,407	952	2,373	4,067	1,463		17,190
June	3,241	1,072	3,314	1,460	2,525	4,372	1,578		17,562
July	3,710	1,374	4,021	1,745	2,830	4,777	1,643		20,100
August	4,563	1,686	4,334	1,846	1,791	4,800	2,356		21,376
September	5,316	1,661	4,465	1,759	1,617	4,198	2,490		21,506
October	4,918	1,400	3,581	1,475	1,280	3,837	2,220		18,711
November	6,151	1,364	3,812	1,597	1,280	4,193	2,394		20,791
December	7,802	2,269	2,949	1,122	1,278	3,839	1,448		20,707
Total	64,925	16,803	45,546	15,925	23,235	47,800	19,182	0	233,418
Total All									942,408

10.d Total kWh of customer-owned renewable generation delivered to the electric utility, by month and by year for the calendar year 2013.

2015	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Total
January	3319515001	316250011	1014610010	8506890011	6107130013	503620011	515641013	8906750010	2,309
February	131	0	431	180	1375	243	6	0	1,713
March	152	0	450	208	709	215	0	0	2,255
April	183	0	654	277	883	289	0	0	2,751
May	104	0	674	267	1284	341	2	0	2,747
June	134	0	590	220	1605	228	0	0	2,687
July	109	0	629	122	1626	175	1	0	3,209
August	103	0	637	214	2083	186	0	0	3,914
September	67	0	546	132	2,471	662	0	0	3,013
October	92	0	617	54	1,601	674	0	0	2,612
November	104	0	440	59	1,345	676	0	0	2,308
December	72	0	473	99	940	692	0	0	2,498
Total	1,325	0	6,515	1,938	17,262	4,967	9	0	32,016

2015	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Total
January	1518510012	3307370011	3520463603	2512102804	5513560012	5718600011	5400950010	4452410012	807
February	58	307	15	0	1	101	325	0	1,283
March	137	374	58	0	9	181	3	521	1,172
April	55	392	19	0	3	98	88	517	1,244
May	28	433	18	0	1	71	105	588	1,199
June	1	268	5	291	0	33	66	535	1,404
July	95	208	0	634	2	10	27	428	1,138
August	135	175	0	378	0	5	5	440	938
September	90	111	0	360	0	4	1	372	701
October	0	151	0	306	0	13	3	228	760
November	0	193	0	263	11	15	3	275	791
December	0	188	0	301	0	4	10	288	773
Total	607	2,974	117	2,818	27	553	320	4,794	12,210

2015	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Total
January	6903820013	4452330010	4500152010	2500070501	6317540010	3109610010	5200092013	7103950014	2,043
February	584	44	206	0	369	284	5	551	2,616
March	586	103	289	0	663	391	91	493	3,318
April	958	195	326	0	803	456	34	546	4,073
May	1,402	259	324	0	874	551	14	649	2,854
June	996	180	259	0	657	256	49	457	3,129
July	905	178	173	0	634	687	9	543	2,896
August	1,039	142	75	0	590	449	1	590	2,572
September	775	209	102	0	588	426	10	461	2,305
October	752	112	114	0	525	332	10	460	2,068
November	612	75	37	0	505	334	3	502	1,549
December	325	37	0	0	415	295	4	473	1,164
Total	9,159	1,536	1,905	0	6,940	4,676	236	6,125	30,577

2015	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Total
January	7714800013	8914782013	5302400011	1721430001	705780003	8114170815	4101220500	101600015	2,644
February	124	89	0	453	61	641	1,250	26	3,100
March	209	107	0	618	57	763	1,321	25	3,841
April	162	127	0	738	111	981	1,695	27	3,865
May	169	125	0	768	139	1,009	1,631	24	3,326
June	281	104	0	585	80	834	1,422	20	3,204
July	282	106	66	475	87	791	1,384	13	3,451
August	151	93	318	403	100	758	1,620	8	2,752
September	43	76	190	311	75	639	1,411	7	2,872
October	149	84	199	438	119	510	1,363	10	2,765
November	151	82	210	440	106	550	1,206	20	2,800
December	75	84	253	468	42	548	1,296	34	2,363
Total	1,884	1,158	1,429	6,099	1,017	8,563	16,600	233	36,983

2015	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Total
January	5505950012	6104801003	4507000013	6102301011	8010400010	3110751000	4406800015		774
February	0	585	100	89	0	0	0	0	926
March	0	451	136	339	0	0	0	0	1,740
April	0	782	725	233	0	0	0	0	1,016
May	177	538	97	204	0	0	0	0	837
June	112	451	22	252	0	0	0	0	719
July	105	426	29	158	0	0	0	0	361
August	144	276	10	68	0	0	0	0	685
September	39	210	6	106	0	0	0	0	968
October	17	164	1	88	415	0	0	0	748
November	23	224	1	115	605	0	0	0	1,140
December	12	225	2	94	415	0	0	0	0
Total	2	677	0	1,22	279	52	8	0	10,412
Total All	632	5,009	1,129	1,868	1,714	52	8	0	122,198

10 e Total energy payments made to interconnected customers for customer-owned renewable generation delivered to the electric utility for the previous calendar year, along with the total payments made since the implementation of this rule.

	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Total
2015	3319515001	316250011	1014610010	8506890011	6107130013	503620011	515841013	8906750010	\$1,658.29
Total	\$158.71	\$0.00	\$634.98	\$191.47	\$190.13	\$482.09	\$0.91	\$0.00	\$1,658.29
2015	1518510012	3307370011	3520463603	2512102804	5513560012	5718600011	5400950010	4452410012	\$1,159.34
Total	\$59.42	\$294.49	\$0.00	\$244.56	\$2.64	\$55.94	\$31.58	\$470.71	\$1,159.34
2015	6903820013	4452330010	4500152010	2500070501	6317540010	3109610010	5200092013	7103950014	\$2,551.96
Total	\$887.66	\$147.88	\$187.70	\$0.00	\$705.37	\$0.00	\$23.58	\$599.77	\$2,551.96
2015	7714800013	8914782013	5302400011	1721430001	705780003	8114170815	4101220500	101600015	\$3,647.92
Total	\$184.75	\$113.75	\$137.07	\$600.37	\$98.35	\$807.68	\$1,583.86	\$22.09	\$3,647.92
2015	5505950012	6104801003	6507000013	5102301011	8010400010	3110751000	4406800015		\$1,032.43
Total	\$60.41	\$500.88	\$115.21	\$184.75	\$165.38	\$4.95	\$0.85		\$1,032.43
Total All									\$8,950

Previous payments since implementation

	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Total
Prior Year Bal	\$1,852.65	\$497.25	\$5,126.47	\$2,249.42	\$1,201.06	\$2,855.32	\$147.68	\$2,129.47	\$15,859.32
Current Year	\$158.71	\$0.00	\$634.98	\$191.47	\$190.13	\$482.09	\$0.91	\$0.00	\$1,658.29
Total	\$1,811.36	\$497.25	\$5,761.45	\$2,440.89	\$1,391.19	\$3,337.41	\$148.59	\$2,129.47	\$17,517.61
Prior Year Bal	\$617.15	\$2,615.08	\$2,252.67	\$2,490.65	\$26.89	\$662.50	\$500.34	\$2,464.64	\$11,629.92
Current Year	\$59.42	\$294.49	\$0.00	\$244.56	\$2.64	\$55.94	\$31.58	\$470.71	\$1,159.34
Total	\$676.57	\$2,909.57	\$2,252.67	\$2,735.21	\$29.53	\$718.44	\$531.92	\$2,935.35	\$12,789.26
Prior Year Bal	\$4,295.29	\$942.06	\$1,661.25	\$97.54	\$3,999.28	\$2,584.38	\$225.87	\$2,766.62	\$15,572.29
Current Year	\$887.66	\$147.88	\$187.70	\$0.00	\$705.37	\$0.00	\$23.58	\$599.77	\$2,551.96
Total	\$5,182.95	\$1,089.94	\$1,848.95	\$97.54	\$4,704.65	\$2,584.38	\$249.45	\$3,366.39	\$19,124.25
Prior Year Bal	\$762.93	\$521.05	\$1,410.88	\$2,015.51	\$373.05	\$2,758.96	1609.62+1713	\$34.99	\$7,877.37
Current Year	\$184.75	\$113.75	\$137.07	\$600.37	\$98.35	\$807.68	\$1,583.86	\$22.09	\$3,547.92
Total	\$947.68	\$634.80	\$1,547.95	\$2,615.88	\$471.40	\$3,566.64	\$1,583.86	\$57.08	\$11,425.29
Prior Year Bal	\$61.10	\$500.88							\$561.98
Current Year	\$60.41	\$500.88	\$115.21	\$184.75	\$165.38	\$4.95	\$0.85		\$1,032.43
Total	\$121.51	\$1,001.76	\$115.21	\$184.75	\$165.38	\$4.95	\$0.85	\$0.00	\$1,594.41
Total All									\$62,450.82

10 f

Renewable technology utilized

Gross Power Rating

Geographic location by county

Date Interconnected

Account #	Photovoltaic	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Account #	Date Interconnected	
3319515001	Photovoltaic	3319515001	2.9	3319515001	Monroe	3319515001	Monroe	3319515001	Jun-03	1	3319515001	Jun-03
316250011	Photovoltaic	316250011	2.1	316250011	Monroe	316250011	Monroe	8506890011	Mar-05	2	8506890011	Mar-05
1014610010	Photovoltaic	1014610010	4.9	1014610010	Monroe	1014610010	Monroe	1014610010	Feb-07	3	1014610010	Feb-07
8506890011	Photovoltaic	8506890011	4.9	8506890011	Monroe	8506890011	Monroe	0316250011	Oct-07	4	0316250011	Oct-07
6107130013	Photovoltaic	6107130013	6.9	6107130013	Monroe	6107130013	Monroe	6107130013	Jun-08	5	6107130013	Jun-08
503620011	Photovoltaic	503620011	5.4	503620011	Monroe	503620011	Monroe	0503620011	Jan-09	6	0503620011	Jan-09
515841013	Photovoltaic	515841013	4.9	515841013	Monroe	515841013	Monroe	8906750010	Jan-09	7	8906750010	Jan-09
8906750010	Photovoltaic	8906750010	5.3	8906750010	Monroe	8906750010	Monroe	3307370011	Feb-09	8	3307370011	Feb-09
1518510012	Photovoltaic	1518510012	5.5	1518510012	Monroe	1518510012	Monroe	2512102804	May-09	9	2512102804	May-09
3307370011	Photovoltaic	3307370011	4.2	3307370011	Monroe	3307370011	Monroe	5513560012	Jun-09	10	5513560012	Jun-09
3520463603	Photovoltaic	3520463603	2.3	3520463603	Monroe	3520463603	Monroe	3520463603	Jun-09	11	3520463603	Jun-09
2512102804	Photovoltaic	2512102804	4.5	2512102804	Monroe	2512102804	Monroe	1518510012	Sep-09	12	1518510012	Sep-09
5513560012	Photovoltaic	5513560012	4.9	5513560012	Monroe	5513560012	Monroe	5400950010	Sep-09	13	5400950010	Sep-09
5718600011	Photovoltaic	5718600011	11.0	5718600011	Monroe	5718600011	Monroe	0515841013	Oct-09	14	0515841013	Oct-09
5400950010	Photovoltaic	5400950010	4.7	5400950010	Monroe	5400950010	Monroe	5718600011	Dec-09	15	5718600011	Dec-09
4452410012	Photovoltaic	4452410012	4.0	4452410012	Monroe	4452410012	Monroe	4452410012	Feb-10	16	4452410012	Feb-10
6903820013	Photovoltaic	6903820013	6.6	6903820013	Monroe	6903820013	Monroe	2500070501	Mar-10	17	2500070501	Mar-10
4452330010	Photovoltaic	4452330010	7.0	4452330010	Monroe	4452330010	Monroe	4452330010	Mar-10	18	4452330010	Mar-10
4500152010	Photovoltaic	4500152010	7.0	4500152010	Monroe	4500152010	Monroe	6903820013	Mar-10	19	6903820013	Mar-10
2500070501	Photovoltaic	2500070501	2.8	2500070501	Monroe	2500070501	Monroe	4500152010	Apr-10	20	4500152010	Apr-10
6317540010	Photovoltaic	6317540010	6.9	6317540010	Monroe	6317540010	Monroe	6317540010	May-10	21	6317540010	May-10
3109610010	Photovoltaic	3109610010	5.0	3109610010	Monroe	3109610010	Monroe	3109610010	May-10	22	3109610010	May-10
5200092013	Photovoltaic	5200092013	5.1	5200092013	Monroe	5200092013	Monroe	5200092013	Jun-10	23	5200092013	Jun-10
7103950014	Photovoltaic	7103950014	5.2	7103950014	Monroe	7103950014	Monroe	7103950014	Jul-10	24	7103950014	Jul-10
7714800013	Photovoltaic	7714800013	8.4	7714800013	Monroe	7714800013	Monroe	7714800013	Jul-10	25	7714800013	Jul-10
8914782013	Photovoltaic	8914782013	2.0	8914782013	Monroe	8914782013	Monroe	8914782013	Jul-10	26	8914782013	Jul-10
5302400011	Photovoltaic	5302400011	4.2	5302400011	Monroe	5302400011	Monroe	5302400011	Nov-10	27	5302400011	Nov-10
1721430001	Photovoltaic	1721430001	6.5	1721430001	Monroe	1721430001	Monroe	1721430001	Jan-11	28	1721430001	Jan-11
705780003	Photovoltaic	705780003	2.1	705780003	Monroe	705780003	Monroe	0705780003	Mar-11	29	0705780003	Mar-11
8114170815	Photovoltaic	8114170815	9.7	8114170815	Monroe	8114170815	Monroe	8114170815	Dec-11	30	8114170815	Dec-11
4101220500	Photovoltaic	4101220500	10.0	4101220500	Monroe	4101220500	Monroe	4101220500	Apr-12	31	4101220500	Apr-12
101600015	Photovoltaic	101600015	3.0	101600015	Monroe	101600015	Monroe	101600015	Sep-13	32	101600015	Sep-13
5505950012	Photovoltaic	5505950012	7.8	5505950012	Monroe	5505950012	Monroe	5505950012	Sep-13	33	5505950012	Sep-13
6104801003	Photovoltaic	6104801003	9.2	6104801003	Monroe	6104801003	Monroe	6104801003	Dec-13	34	6104801003	Dec-13
5102301011	Photovoltaic	5102301011	5.0	5102301011	Monroe	5102301011	Monroe	6507000013	Oct-14	35	6507000013	Oct-14
2812057011	Photovoltaic	2812057011	6.9	2812057011	Monroe	2812057011	Monroe	2812057011	Dec-14	36	2812057011	Dec-14
6507000013	Photovoltaic	6507000013	16.5	6507000013	Monroe	6507000013	Monroe	5102301011	Dec-14	37	5102301011	Dec-14

5102301011	Photovoltaic	5102301011	5.0
8010400010	Photovoltaic	8010400010	10.0
3110751000	Photovoltaic	3110751000	25.7
4406800015	Photovoltaic	4406800015	5.1
Total			263.1

5102301011	Monroe
8010400010	Monroe
3110751000	Monroe
4406800015	Monroe

38	5102301011	Dec-14
39	8010400010	Jul-15
40	3110751000	Dec-15
41	4406800015	Dec-15

Florida Keys Electric Cooperative Association, Inc.
Reporting Requirements under Florida Statutes §366.92(5)

This document is intended to fulfill the reporting requirements of Florida Keys Electric Cooperative Association, Inc. ("FKEC") under Florida Statutes §366.92(5) as of April 1, 2011, and has been divided into the following categories:

Renewable Energy Resources

- A. Promotion and Encouragement of Renewable Energy Resources
- B. Expansion of Renewable Energy Resources

Energy Conservation and Efficiency Measures

- A. Promotion and Encouragement of Energy Conservation and Efficiency Measures
- B. Expansion of Energy Conservation and Efficiency Measures

Renewable Energy Resources

Florida Keys Electric Cooperative Association, Inc. purchases 100% of its annual energy requirements from Florida Power and Light Company ("FPL") under a long term agreement dated as of February 7, 2011. FKEC has nine diesel-fired generating units located in FKEC's Marathon generating station on standby for emergency purposes. During 2015 a total of zero kilowatt hours were produced by these units. A total of .56 tons of carbon monoxide was emitted. The small amount of energy provided by these units is a result of exercising the generators on a monthly basis.

In December of 2008, FKEC commissioned its first grid-tied solar photovoltaic array. This array consists of 552 separate 175 watt solar photovoltaic panels connected to twenty four separate inverters. The array is then connected directly into FKEC's Marathon distribution substation from where it delivers the solar generated energy to FKEC's members. The array has a generating capacity of 96.6 kilowatts and has generated 1,000,639kWh since it was commissioned on December 16, 2008.

In March of 2009, FKEC commissioned its second grid-tied solar photovoltaic array. This array consists of 120 separate 175 watt solar panels connected to four separate inverters. This array is located within the boundary of and interconnected to FKEC's Crawl Key distribution substation from where it delivers the solar generated energy to FKEC's members. This array has a generating capacity of 21.0 kilowatts and has generated 217,720kWh since it was commissioned on March 22, 2009.

The cost for these two solar photovoltaic arrays was approximately one million dollars. Land cost is not included in the total as FKEC already owned both of the parcels on which the arrays were constructed. FKEC will amortize the cost of both arrays over a twenty year period, which results in a stand-alone rate of around thirty-one cents per kilowatt hour, assuming a

fifteen percent capacity factor from both arrays. FKEC will not charge a separate rate for the production of these arrays. Development cost will be folded into rate base and recovered through existing rates. Since the arrays will produce less than one quarter of one percent of FKEC's annually energy requirements and the amortized cost of the systems will be around fifty thousand dollars per year, no measurable impact to FKEC's existing rate levels is expected.

A. Promotion and Encouragement of Renewable Energy Resources

FKEC has welcomed member-owned renewable energy interconnection for many years. Our first solar generating member interconnected to our system in August of 2002. Since that time, 40 additional members have interconnected their solar photovoltaic arrays to our system.

FKEC has implemented a unique plan called "Simple Solar". This program allows FKEC members to lease one (or as many as desired) of our 522 solar panels for a period of 25 years. The member receives monthly bill credits for the full retail value of the electricity generated by their leased panel(s). This program is unique because it allows members support alternative energy but don't want the hassle of designing, permitting, building, maintaining, and insuring their own residential solar arrays. To date FKEC has leased 10 solar panels.

B. Expansion of Renewable Energy Resources

FKEC actively promotes the expansion of renewable energy resources. Our future plans include:

- Continue to investigate sources of renewable energy and remain abreast of future technologies that may play an important role in overall power supply strategy.
- Consider the development of a separate renewable energy initiative to fully explore and develop renewable energy alternatives.
- Continue to encourage member interconnection of renewable energy generation resources.
- Proactively identify and negotiate with partners to pursue, establish and develop energy production facilities which utilize renewable resources.
- Evaluate the feasibility of placing utility owned solar photovoltaic arrays on suitable roofs of member-owners residences.
- Consider the establishment of a revolving loan fund pool to assist in the financing of member-owned alternative energy generating systems.
- Install additional grid-tied renewable energy generating resources.

The installation of additional grid-tied renewable energy resources will become a challenge for FKEC if existing commercially available alternative energy generating technologies are utilized. Large scale solar photovoltaic arrays require tremendous amounts of land. FKEC's service territory consists of numerous small, narrow islands. FKEC used its only two available parcels of land in the construction of the two new solar arrays. Large tracts of available land are non-existent. Smaller tracts of land that would support the installation of smaller solar arrays will carry a high cost and increase the cost of energy produced by the arrays well above the current thirty one cent level.

The construction of utility scale off shore wind turbines present environmental challenges as well. Waste to energy facilities have not worked in the past. Most waste from the Keys is already transferred to Dade County and burned in a waste to energy facility there. Tidal generation and Gulf Stream generation devices are not yet commercially viable. FKEC is highly interested in Gulf Stream generation as it has the potential to provide a base load source of alternative energy and has filed a brief in support of a company's application before the Federal Energy Regulatory Commission for a test unit.

Energy Conservation and Efficiency Measures

A. Promotion and Encouragement of Energy Conservation and Efficiency

FKEC purchases capacity and energy from FPL under a wholesale electric rate which provides price signals to encourage the promotion of demand management and energy efficiency. FPL's rate includes an on-peak and off-peak energy component which encourages off-peak usage and greater efficiency. FKEC established a demand side load management program many years ago which encourages FKEC members to control peak demand loads by offering monthly bill credits for participating in the program. Members participating in the program receive monthly bill credits in varying amounts when they allow FKEC to control their central air condition/heating units, water heaters and pool pumps during times of high peak demand.

FKEC offers free in-home residential energy audits and free commercial energy audits. Trained representatives conduct a thorough inspection of the member's home or business and provide a written report listing a variety of recommended energy conservation measures. Additionally, FKEC makes a do-it-yourself energy audit tool available on its website for any member that prefers to conduct the audit themselves. The tool is location specific and will also provide a variety of energy conservation tips and estimated energy and monetary savings for implementing the measures.

FKEC has given away compact fluorescent light bulbs, LED bulbs, weatherization kits, and power smart surge protectors at its annual meetings and annual director elections and promotes their use whenever possible. Additionally, FKEC provides customers with a wide variety of energy conservation tips in its monthly magazine, its website, and email updates.

FKEC provides numerous energy conservation presentations to a wide variety of audiences, from school children to charitable clubs to alternative energy expositions each year.

In 2015 FKEC implemented a rebate program for customers who installed energy efficient air conditioning and/or invested in the weatherization of their homes to make them more efficient. A total of \$75,000 was issued to members through this program.

B. Expansion of Energy Conservation and Efficiency Measures

FKEC will continue to promote and encourage the expansion of its demand management, energy conservation and energy efficiency programs. FKEC goals for its expanded demand side management and conservation programs include:

- Investigate the implementation of a Time of Use Rate Structure to residential consumers to promote energy conservation during peak demand periods.
- Investigate the feasibility of implementing an energy star appliance rebate program and the availability of funding for such a program.
- Partner with local Community Action Agencies to assist in administering low income home weatherization programs.
- Investigate the feasibility of partnering with eligible cities and county to develop additional energy efficiency and conservation projects.