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November 17, 2009

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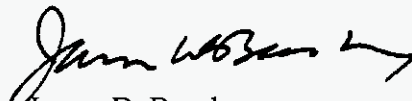
Ms. Jennifer S. Brubaker
Attorney Supervisor
Office of General Counsel
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: Petition for approval of solar energy power purchase agreement between Tampa Electric Company and Energy 5.0 LLC; FPSC Docket No. 090109-EI

Dear Ms. Brubaker:

Enclosed are Tampa Electric Company's responses to the six Data Requests set forth in your letter to me dated November 5, 2009. Should you have any questions or determine the need for any additional information, please feel free to let me know.

Sincerely,


James D. Beasley

JDB/pp
Enclosure

cc: Ms. Ann Cole (w/enc.)
Robert Scheffel Wright (w/enc.)

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**TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 1
PAGE 1 OF 1
FILED: NOVEMBER 17, 2009**

1. Please provide a cost estimate of a self-build 25 MW Solar PV facility at TECO's Polk Site.
 - A. The estimated overnight construction cost for engineering, procurement and construction of a self-build 25 MW Solar PV facility at the site of Tampa Electric's Polk Power Station is approximately \$173 million as of March 2009. This project estimate does not include related transmission additions or modifications and indirect costs such as project management and construction financing. Furthermore, it assumes the use of land at the Polk Power Station site, which is property held for future use for firm resources. This project estimate does not include costs representing the foregone value of the property for future expansion.

**TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 2
PAGE 1 OF 2
FILED: NOVEMBER 17, 2009**

2. On page 31 of TECO's post-hearing brief, filed August 28, 2009, in Docket No. 080409-EG, In re: Commission review of numeric conservation goals (Tampa Electric Company), TECO addresses GDS's Subsidy for Demand Side Renewable Projects. In its brief, TECO states, "For GDS to ignore the non-cost-effectiveness of these measures and to propose a financial burden [\$0.10 monthly residential bill impact] on Tampa Electric's customers in the form of a huge subsidy of those measures over a five year period is totally wrong."
- a) Please identify the basis for the statement that it is "totally wrong" for GDS to ignore the "non-cost-effectiveness" of demand-side renewable measures?
 - b) Please reconcile this statement relative to the "cost-effectiveness" of the proposed contract?
 - c) Please explain or describe the financial impact a \$0.48 increase to monthly residential bills will have on TECO's customers?
- A.
- a) The basis for Tampa Electric's statement in its post-hearing brief in Docket No. 080409-EG is specific to the Commission cost-effectiveness tests used in determining demand-side management ("DSM") goals, namely, the rate impact measure ("RIM") test, the total resource cost ("TRC") test and the participant test. All renewable measures evaluated in the DSM goals proceeding were not cost-effective under any of these tests. The company believes it is not appropriate to promote a non-cost-effective measure to be installed behind the meter at the expense of all other ratepayers.
 - b) Tampa Electric's statement in its post-hearing brief in Docket No. 080409-EG is consistent with existing policies, cost-effectiveness tests and Commission rulings regarding DSM goals. With regard to the proposed solar energy purchased power contract, the company selected, through a Request for Proposals ("RFP"), the most cost-effective solar option. The solar option was selected in support of the Renewable Portfolio Standard that the Commission and Florida legislature were working to develop and other legislative and gubernatorial policy statements encouraging the development of renewable energy projects, particularly solar energy, in Florida.

**TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 2
PAGE 2 OF 2
FILED: NOVEMBER 17, 2009**

- c) An estimated \$0.48 impact represents a 0.3 percent increase for a 1,200 kWh monthly residential bill.¹

¹ The 2009 monthly amount for a 1,200 kWh residential bill is \$139.55.

**TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 3
PAGE 1 OF 1
FILED: NOVEMBER 17, 2009**

3. Please provide the average residential/customer delinquency rate TECO has experienced for the years 2000-2009.
- A. Tampa Electric does not have data showing the residential customer delinquency rate for 2000 through 2009; therefore, the average residential bad debt rate is shown in the following table.

Residential Delinquency Rate	
2000	0.28%
2001	0.27%
2002	0.32%
2003	0.28%
2004	0.30%
2005	0.34%
2006	0.34%
2007	0.36%
2008	0.40%
2009*	0.42%

* Through October

**TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 4
PAGE 1 OF 9
FILED: NOVEMBER 17, 2009**

- 4.** Please provide an updated response to Staff Interrogatory No. 66 in this docket. Please use TECO's most recent fuel forecasts. For scenarios which include carbon costs, please use the Congressional Budget Office's CO2 cost estimates under H.R. 2454.

- A.** The requested information is provided in the following eight tables.

**TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 4
PAGE 2 OF 9
FILED: NOVEMBER 17, 2009**

Base Case					
	Annual Total Revenue Requirements with Solar Contract ¹ (Millions, Nominal \$)	Annual Total Revenue Requirements without Solar Contract ¹ (Millions, Nominal \$)	Differential in Annual Total Revenue Requirements (Millions, Nominal \$)	Differential in 1,000 kWh Customer Bill ² (\$)	Differential in 1,200 kWh Customer Bill ² (\$)
2011	1,103.066	1,094.122	8.943	0.43	0.52
2012	1,171.390	1,162.545	8.845	0.41	0.49
2013	1,255.076	1,246.266	8.811	0.40	0.48
2014	1,305.335	1,296.610	8.726	0.39	0.47
2015	1,372.212	1,363.319	8.893	0.39	0.47
2016	1,441.314	1,432.591	8.723	0.37	0.44
2017	1,504.969	1,496.433	8.536	0.36	0.43
2018	1,714.798	1,705.843	8.955	0.37	0.44
2019	1,791.685	1,782.626	9.060	0.36	0.43
2020	1,856.369	1,848.281	8.088	0.32	0.38
2021	1,924.462	1,915.760	8.702	0.33	0.40
2022	1,992.302	1,984.055	8.247	0.31	0.37
2023	2,078.011	2,070.202	7.809	0.28	0.34
2024	2,309.645	2,300.774	8.871	0.32	0.38
2025	2,400.023	2,391.862	8.161	0.28	0.34
2026	2,469.702	2,461.424	8.278	0.28	0.34
2027	2,563.627	2,555.947	7.679	0.26	0.31
2028	2,643.142	2,635.625	7.517	0.24	0.29
2029	2,721.616	2,714.617	6.999	0.22	0.26
2030	2,818.336	2,811.063	7.273	0.23	0.28
2031	2,918.968	2,911.792	7.176	0.22	0.26
2032	3,009.855	3,003.169	6.685	0.20	0.24
2033	3,113.503	3,107.141	6.362	0.18	0.22
2034	3,191.624	3,185.559	6.065	0.17	0.20
2035	3,306.970	3,301.270	5.700	0.16	0.19

- 1 Revenue requirements represent system fuel, capacity and variable O&M costs plus incremental expansion capital and fixed O&M costs.
- 2 Customer bill impacts are based on the current approved rates and are calculated in 2009 dollars.

TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 4
PAGE 3 OF 9
FILED: NOVEMBER 17, 2009

Base Case With CO₂ Costs					
	Annual Total Revenue Requirements with Solar Contract ¹ (Millions, Nominal \$)	Annual Total Revenue Requirements without Solar Contract ¹ (Millions, Nominal \$)	Differential in Annual Total Revenue Requirements (Millions, Nominal \$)	Differential in 1,000 kWh Customer Bill ² (\$)	Differential in 1,200 kWh Customer Bill ² (\$)
2011	1,351.029	1,342.404	8.625	0.41	0.49
2012	1,441.944	1,433.475	8.469	0.40	0.48
2013	1,550.575	1,542.168	8.407	0.38	0.46
2014	1,624.489	1,616.200	8.289	0.37	0.44
2015	1,713.234	1,704.799	8.435	0.37	0.44
2016	1,823.816	1,815.622	8.193	0.35	0.42
2017	1,908.490	1,900.542	7.948	0.33	0.40
2018	2,154.975	2,146.565	8.410	0.34	0.41
2019	2,275.652	2,267.235	8.417	0.34	0.41
2020	2,379.631	2,372.293	7.338	0.29	0.35
2021	2,483.226	2,475.224	8.002	0.31	0.37
2022	2,594.779	2,587.341	7.438	0.28	0.34
2023	2,725.937	2,718.998	6.939	0.25	0.30
2024	2,996.846	2,988.785	8.061	0.29	0.35
2025	3,138.611	3,131.343	7.268	0.25	0.30
2026	3,263.315	3,255.896	7.419	0.25	0.30
2027	3,413.209	3,406.626	6.583	0.22	0.26
2028	3,563.787	3,557.419	6.368	0.21	0.25
2029	3,706.226	3,700.410	5.815	0.18	0.22
2030	3,872.103	3,866.053	6.050	0.19	0.23
2031	4,051.849	4,046.054	5.795	0.18	0.22
2032	4,229.634	4,224.474	5.160	0.15	0.18
2033	4,414.451	4,409.611	4.840	0.14	0.17
2034	4,588.140	4,583.738	4.401	0.12	0.14
2035	4,801.813	4,797.950	3.863	0.11	0.13

- 1 Revenue requirements represent system fuel, capacity and variable O&M costs plus incremental expansion capital and fixed O&M costs.
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**TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 4
PAGE 4 OF 9
FILED: NOVEMBER 17, 2009**

Base Case With RECs					
	Annual Total Revenue Requirements with Solar Contract ¹ (Millions, Nominal \$)	Annual Total Revenue Requirements without Solar Contract ¹ (Millions, Nominal \$)	Differential in Annual Total Revenue Requirements (Millions, Nominal \$)	Differential in 1,000 kWh Customer Bill ² (\$)	Differential in 1,200 kWh Customer Bill ² (\$)
2011	1,098.241	1,094.122	4.118	0.20	0.24
2012	1,166.552	1,162.545	4.007	0.19	0.23
2013	1,250.734	1,246.266	4.468	0.20	0.24
2014	1,301.958	1,296.610	5.348	0.24	0.29
2015	1,369.076	1,363.319	5.757	0.25	0.30
2016	1,438.411	1,432.591	5.820	0.25	0.30
2017	1,502.460	1,496.433	6.027	0.25	0.30
2018	1,712.675	1,705.843	6.832	0.28	0.34
2019	1,789.948	1,782.626	7.323	0.29	0.35
2020	1,855.160	1,848.281	6.879	0.27	0.32
2021	1,923.256	1,915.760	7.496	0.29	0.35
2022	1,991.096	1,984.055	7.041	0.26	0.31
2023	2,076.804	2,070.202	6.603	0.24	0.29
2024	2,308.436	2,300.774	7.662	0.27	0.32
2025	2,398.817	2,391.862	6.955	0.24	0.29
2026	2,468.496	2,461.424	7.072	0.24	0.29
2027	2,562.420	2,555.947	6.473	0.22	0.26
2028	2,641.933	2,635.625	6.307	0.21	0.25
2029	2,720.410	2,714.617	5.793	0.18	0.22
2030	2,817.130	2,811.063	6.067	0.19	0.23
2031	2,917.762	2,911.792	5.969	0.18	0.22
2032	3,008.645	3,003.169	5.476	0.16	0.19
2033	3,112.297	3,107.141	5.156	0.15	0.18
2034	3,190.418	3,185.559	4.859	0.14	0.17
2035	3,305.767	3,301.270	4.497	0.12	0.14

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TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 4
PAGE 5 OF 9
FILED: NOVEMBER 17, 2009

Base Case With Combination CO₂ Costs and RECs					
	Annual Total Revenue Requirements with Solar Contract¹ (Millions, Nominal \$)	Annual Total Revenue Requirements without Solar Contract¹ (Millions, Nominal \$)	Differential in Annual Total Revenue Requirements (Millions, Nominal \$)	Differential in 1,000 kWh Customer Bill² (\$)	Differential in 1,200 kWh Customer Bill² (\$)
2011	1,346.204	1,342.404	3.800	0.18	0.22
2012	1,437.106	1,433.475	3.631	0.17	0.20
2013	1,546.232	1,542.168	4.065	0.19	0.23
2014	1,621.111	1,616.200	4.912	0.22	0.26
2015	1,710.098	1,704.799	5.298	0.23	0.28
2016	1,820.913	1,815.622	5.291	0.23	0.28
2017	1,905.981	1,900.542	5.439	0.23	0.28
2018	2,152.852	2,146.565	6.287	0.26	0.31
2019	2,273.915	2,267.235	6.680	0.27	0.32
2020	2,378.422	2,372.293	6.129	0.24	0.29
2021	2,482.020	2,475.224	6.796	0.26	0.31
2022	2,593.573	2,587.341	6.232	0.23	0.28
2023	2,724.730	2,718.998	5.732	0.21	0.25
2024	2,995.636	2,988.785	6.852	0.24	0.29
2025	3,137.405	3,131.343	6.062	0.21	0.25
2026	3,262.108	3,255.896	6.213	0.21	0.25
2027	3,412.003	3,406.626	5.377	0.18	0.22
2028	3,562.577	3,557.419	5.158	0.17	0.20
2029	3,705.019	3,700.410	4.609	0.15	0.18
2030	3,870.896	3,866.053	4.844	0.15	0.18
2031	4,050.642	4,046.054	4.589	0.14	0.17
2032	4,228.425	4,224.474	3.951	0.12	0.14
2033	4,413.245	4,409.611	3.634	0.11	0.13
2034	4,586.933	4,583.738	3.195	0.09	0.11
2035	4,800.610	4,797.950	2.660	0.07	0.08

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**TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 4
PAGE 6 OF 9
FILED: NOVEMBER 17, 2009**

High Fuel Case					
	Annual Total Revenue Requirements with Solar Contract ¹ (Millions, Nominal \$)	Annual Total Revenue Requirements without Solar Contract ¹ (Millions, Nominal \$)	Differential in Annual Total Revenue Requirements (Millions, Nominal \$)	Differential in 1,000 kWh Customer Bill ² (\$)	Differential in 1,200 kWh Customer Bill ² (\$)
2011	1,264.412	1,256.331	8.081	0.39	0.47
2012	1,339.478	1,331.747	7.731	0.36	0.43
2013	1,426.453	1,418.589	7.864	0.36	0.43
2014	1,478.746	1,471.263	7.483	0.33	0.40
2015	1,555.414	1,547.868	7.546	0.33	0.40
2016	1,635.407	1,627.710	7.697	0.33	0.40
2017	1,711.766	1,704.198	7.568	0.32	0.38
2018	1,917.979	1,909.964	8.015	0.33	0.40
2019	2,005.282	1,997.545	7.736	0.31	0.37
2020	2,083.950	2,076.723	7.228	0.28	0.34
2021	2,166.695	2,159.153	7.543	0.29	0.35
2022	2,247.831	2,240.659	7.171	0.27	0.32
2023	2,353.243	2,346.471	6.772	0.25	0.30
2024	2,589.256	2,581.662	7.594	0.27	0.32
2025	2,693.608	2,686.895	6.712	0.23	0.28
2026	2,780.816	2,773.871	6.945	0.24	0.29
2027	2,894.938	2,888.925	6.012	0.20	0.24
2028	2,990.894	2,984.706	6.188	0.20	0.24
2029	3,087.598	3,081.493	6.106	0.19	0.23
2030	3,204.791	3,198.740	6.051	0.19	0.23
2031	3,323.200	3,317.788	5.412	0.16	0.19
2032	3,432.771	3,428.006	4.766	0.14	0.17
2033	3,559.213	3,553.925	5.288	0.15	0.18
2034	3,652.992	3,647.934	5.058	0.14	0.17
2035	3,790.205	3,785.583	4.622	0.13	0.16

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**TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 4
PAGE 7 OF 9
FILED: NOVEMBER 17, 2009**

High Fuel Case with CO₂ Costs					
	Annual Total Revenue Requirements with Solar Contract ¹ (Millions, Nominal \$)	Annual Total Revenue Requirements without Solar Contract ¹ (Millions, Nominal \$)	Differential in Annual Total Revenue Requirements (Millions, Nominal \$)	Differential in 1,000 kWh Customer Bill ² (\$)	Differential in 1,200 kWh Customer Bill ² (\$)
2011	1,512.125	1,504.353	7.772	0.37	0.44
2012	1,609.709	1,602.342	7.367	0.34	0.41
2013	1,721.864	1,714.442	7.422	0.34	0.41
2014	1,797.778	1,790.770	7.008	0.31	0.37
2015	1,896.212	1,889.166	7.046	0.31	0.37
2016	2,017.703	2,010.550	7.154	0.31	0.37
2017	2,114.931	2,107.932	6.999	0.29	0.35
2018	2,358.121	2,350.647	7.474	0.31	0.37
2019	2,489.812	2,482.722	7.090	0.28	0.34
2020	2,607.916	2,601.406	6.511	0.25	0.30
2021	2,726.261	2,719.479	6.782	0.26	0.31
2022	2,851.350	2,844.993	6.358	0.24	0.29
2023	3,002.284	2,996.320	5.964	0.22	0.26
2024	3,277.717	3,270.940	6.777	0.24	0.29
2025	3,432.405	3,426.576	5.830	0.20	0.24
2026	3,574.333	3,568.319	6.014	0.20	0.24
2027	3,744.683	3,739.755	4.928	0.16	0.19
2028	3,911.986	3,906.923	5.062	0.16	0.19
2029	4,072.336	4,067.369	4.967	0.16	0.19
2030	4,258.448	4,253.646	4.802	0.15	0.18
2031	4,456.244	4,452.230	4.013	0.12	0.14
2032	4,653.158	4,649.935	3.223	0.10	0.12
2033	4,859.981	4,856.110	3.871	0.11	0.13
2034	5,049.049	5,045.627	3.422	0.10	0.12
2035	5,284.989	5,282.124	2.865	0.08	0.10

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**TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 4
PAGE 8 OF 9
FILED: NOVEMBER 17, 2009**

High Fuel Case with RECs					
	Annual Total Revenue Requirements with Solar Contract ¹ (Millions, Nominal \$)	Annual Total Revenue Requirements without Solar Contract ¹ (Millions, Nominal \$)	Differential in Annual Total Revenue Requirements (Millions, Nominal \$)	Differential in 1,000 kWh Customer Bill ² (\$)	Differential in 1,200 kWh Customer Bill ² (\$)
2011	1,259.587	1,256.331	3.256	0.16	0.19
2012	1,334.640	1,331.747	2.893	0.14	0.17
2013	1,422.111	1,418.589	3.522	0.16	0.19
2014	1,475.368	1,471.263	4.105	0.18	0.22
2015	1,552.278	1,547.868	4.410	0.19	0.23
2016	1,632.505	1,627.710	4.795	0.20	0.24
2017	1,709.257	1,704.198	5.059	0.21	0.25
2018	1,915.856	1,909.964	5.892	0.24	0.29
2019	2,003.545	1,997.545	5.999	0.24	0.29
2020	2,082.741	2,076.723	6.018	0.23	0.28
2021	2,165.489	2,159.153	6.336	0.24	0.29
2022	2,246.624	2,240.659	5.965	0.22	0.26
2023	2,352.037	2,346.471	5.566	0.20	0.24
2024	2,588.046	2,581.662	6.384	0.23	0.28
2025	2,692.401	2,686.895	5.506	0.19	0.23
2026	2,779.610	2,773.871	5.738	0.20	0.24
2027	2,893.731	2,888.925	4.806	0.16	0.19
2028	2,989.685	2,984.706	4.978	0.16	0.19
2029	3,086.392	3,081.493	4.899	0.16	0.19
2030	3,203.585	3,198.740	4.845	0.15	0.18
2031	3,321.994	3,317.788	4.206	0.13	0.16
2032	3,431.562	3,428.006	3.556	0.11	0.13
2033	3,558.007	3,553.925	4.082	0.12	0.14
2034	3,651.786	3,647.934	3.852	0.11	0.13
2035	3,789.002	3,785.583	3.419	0.09	0.11

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**TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 4
PAGE 9 OF 9
FILED: NOVEMBER 17, 2009**

High Fuel Case with Combination CO₂ Costs and RECs

	Annual Total Revenue Requirements with Solar Contract ¹ (Millions, Nominal \$)	Annual Total Revenue Requirements without Solar Contract ¹ (Millions, Nominal \$)	Differential in Annual Total Revenue Requirements (Millions, Nominal \$)	Differential in 1,000 kWh Customer Bill ² (\$)	Differential in 1,200 kWh Customer Bill ² (\$)
2011	1,507.300	1,504.353	2.947	0.14	0.17
2012	1,604.871	1,602.342	2.529	0.12	0.14
2013	1,717.521	1,714.442	3.080	0.14	0.17
2014	1,794.400	1,790.770	3.630	0.16	0.19
2015	1,893.076	1,889.166	3.910	0.17	0.20
2016	2,014.801	2,010.550	4.251	0.18	0.22
2017	2,112.422	2,107.932	4.490	0.19	0.23
2018	2,355.998	2,350.647	5.351	0.22	0.26
2019	2,488.075	2,482.722	5.353	0.21	0.25
2020	2,606.707	2,601.406	5.301	0.21	0.25
2021	2,725.055	2,719.479	5.576	0.21	0.25
2022	2,850.144	2,844.993	5.151	0.19	0.23
2023	3,001.078	2,996.320	4.758	0.17	0.20
2024	3,276.508	3,270.940	5.567	0.20	0.24
2025	3,431.199	3,426.576	4.623	0.16	0.19
2026	3,573.127	3,568.319	4.808	0.16	0.19
2027	3,743.477	3,739.755	3.722	0.12	0.14
2028	3,910.776	3,906.923	3.853	0.13	0.16
2029	4,071.130	4,067.369	3.761	0.12	0.14
2030	4,257.242	4,253.646	3.596	0.11	0.13
2031	4,455.037	4,452.230	2.807	0.09	0.11
2032	4,651.949	4,649.935	2.013	0.06	0.07
2033	4,858.775	4,856.110	2.665	0.08	0.10
2034	5,047.843	5,045.627	2.216	0.06	0.07
2035	5,283.786	5,282.124	1.662	0.05	0.06

- 1 Revenue requirements represent system fuel, capacity and variable O&M costs plus incremental expansion capital and fixed O&M costs.
- 2 Customer bill impacts are based on the current approved rates and are calculated in 2009 dollars.

**TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 5
PAGE 1 OF 1
FILED: NOVEMBER 17, 2009**

5. Please identify any consumer groups of which TECO is aware that support paying higher rates for renewable energy. Please provide any documents which support or explain TECO's response to this question.
 - A. Tampa Electric is aware of three consumer groups that advocate paying higher rates for renewable energy, Southern Alliance for Clean Energy, Natural Resources Defense Council, and Florida Solar Coalition. Tampa Electric's response is based on the position these groups have articulated in numerous documents recently filed in the DSM goals proceeding in FPSC Docket No. 080407-080413-EG for the seven utilities under Commission governance for setting DSM goals.

**TAMPA ELECTRIC COMPANY
DOCKET NO. 090109-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 6
PAGE 1 OF 1
FILED: NOVEMBER 17, 2009**

- 6.** As of March 2009, what percentage of eligible customers were participating in TECO's renewable energy program?
 - A.** As of March 2009, there were 2,883 customers participating in the company's renewable energy program, representing 0.44 percent of the customers eligible to participate at that time.