

DISTRIBUTION CENTER

10 AUG -6 AM 7:08



July 2, 2010

Ms. Ann Cole, Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Docket 100160-EG
PEF's Petition for Approval of Demand-side Management Plan

DISTRIBUTION CENTER
10 JUN 36 AM 7:07

Dear Ms. Cole:

Enclosed for filing are the original and 5 copies of PEF's Response to Staff's 3rd Data Request in the above-referenced docket.

Six CDs are attached. One CD contains the attachments in PDF format. Five CDs contain the attachments in Excel (.xls) format as requested by Staff.

Thank you for your assistance in this matter and please let me know if you have any questions.

Sincerely,

John T. Burnett

JTB/at
Attachments

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10 JUL -6 AM 9:25
COMMISSION CLERK

- COM _____
- APA _____
- ECR _____
- GCL 1+1 CD
- RAD** 4+5 CDs
- SSC _____
- ADM _____
- OPC _____
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DOCUMENT NO. DATE
05482-10 7, 6, 10
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PEF'S RESPONSE TO STAFF'S 3rd DATA REQUEST

1. Please refer to PEF's Response to Staff's First Data Request, No. 3. The response PEF provided (Excel file labeled Exhibit_3 includes a program titled "Solar for Schools" in column J. Please explain or describe which PEF program the information in this column applies to: *Photovoltaics for Schools (K-12)* or *Photovoltaics for Schools (Post Secondary)*.

RESPONSE:

The "Solar for Schools" program referenced in PEF's Response to Staff's First Data Request, No. 3., represents the "*Photovoltaics for Schools*" pilot included in PEF's March 30, 2010 DSM Plan filing. This pilot consists of two components (or measures), one of which applies to K-12 schools and one that applies to post-secondary schools.

2. Please refer to PEF's Response to Staff's First Data Request, No. 3. Please explain why information for the following programs was not provided in the response (Excel file labeled Exhibit_3):

Business Energy Check
Innovation Incentive
Research and Development
Home Energy Check

RESPONSE:

The programs mentioned above do not have cost-effective test analysis so PEF did not have the information to complete the table fully and mistakenly omitted what information was available. Refer to the attached Excel table Exhibit_1 for the net present value of program costs for all the above programs and estimated percentage of residential rate impact for Home Energy Check and Research and Development programs. Note: PEF refers to Research and Development as Technology Development.

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3. Please refer to PEF's Response to Staff's First Data Request, No. 6. Data request question No. 6 requested the demand and energy savings associated with each measure (by program) shown as MW and GWh savings, as a percentage of each program, and as a percentage of Commission-authorized goals. Please explain why PEF provided no values for two of its Commercial/Industrial programs, the Energy Check Program or the Innovation Incentive Program.

RESPONSE:

Business Energy Check information was not provided because PEF makes no MW or GWh savings claims for this program.

The Innovation Incentive program is a custom program and has no pre-determined individual measures. Thus, PEF makes no MW or GWh savings claims for this program in its Plan filing. Savings may be identified as individual proposals are evaluated over the life of the program.

4. Please refer to PEF's Response to Staff's First Data Request, No. 7. In the response, PEF provided lost revenues for 1st Year, 10th Year, and 10 Year Average. Please provide the lost revenues for each program for each of the years from 2010 through 2020 in an Excel spreadsheet.

RESPONSE:

Please see Exhibit_2 attached.

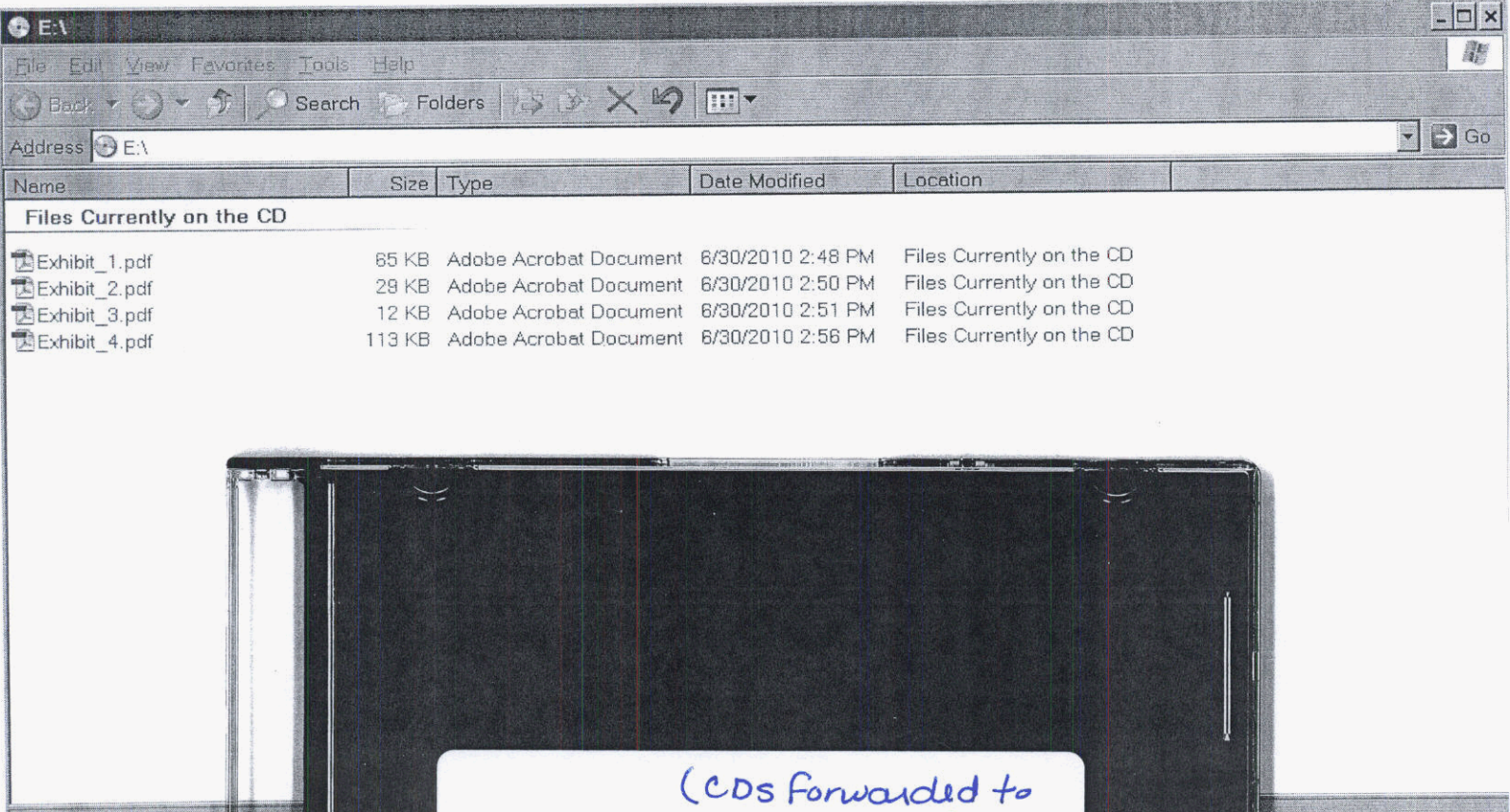
5. Please refer to PEF's Response to Staff's First Data Request, No. 7. Please explain or describe why PEF did not provide any values in the columns "Residential Rate Impact" and "% of Total ECCR Rate" for any of the Business/Commercial programs in its response. As part of this response, please explain where such costs are recovered in rates.

RESPONSE:

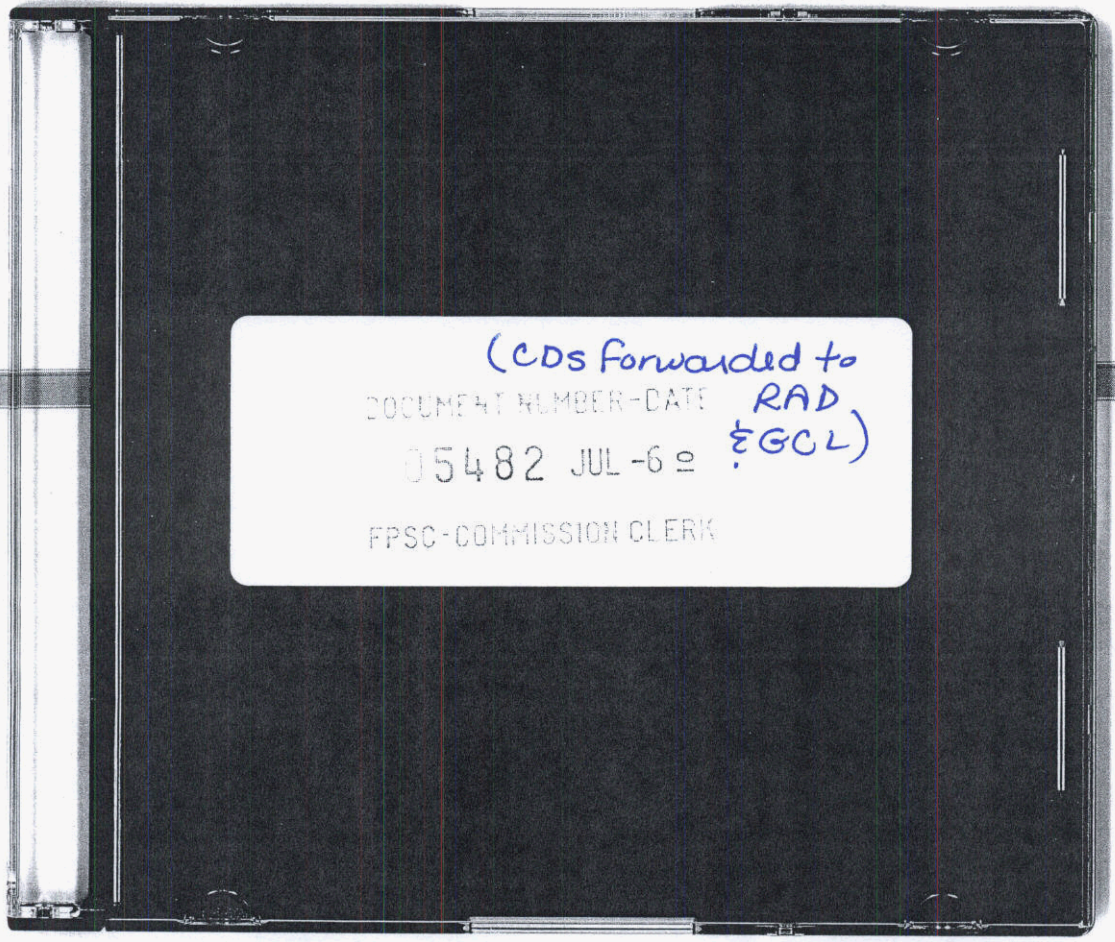
Please refer to Exhibits_3 and 4 attached. During the course of preparing the response to this question, PEF determined that the "Residential Rate Impact" and "Percentage of Total ECCR Rate" for the residential programs provided in PEF's Response to the Staff's First Data Request, Question No. 7, was incorrect. Updated information for the residential programs has been included with this response.

Exhibit_3 (attached) will replace the two rows (Residential Rate Impact and Percentage of Total ECCR Rate) of Exhibit No. 3 attached to PEF's Response to Staff's First Data Request, Question No. 3.

Exhibit_4 (attached) will replace the two columns (Residential Rate Impact and % of Total ECCR Rate) in Exhibit No. 7 attached to PEF's Response to Staff's First Data Request, Question No. 7.



4 objects



Program Information - Total Cost	Program Name				
		Home Energy Check	Research and Development (a.k.a. Technology Development)	Business Energy Check	Innovation Incentive
Customer Category	(Res / Com / Ind)	Res	Res/Com/Ind	Com	Com
Program Type	(EE / DR / RE)	EE	EE/DR	EE	EE
Program Cost (Cumulative NPV)					
Administrative	(\$)	37,735,462	12,884,018	27,044,962	\$885,315
Education, Surveys, Marketing	(\$)	37,330,108	N/A	2,865,414	\$404,440
Equipment, Installation, O&M	(\$)	N/A	N/A	N/A	N/A
Incentives / Rebates	(\$)	N/A	N/A	N/A	\$463,169
Total Cost	(\$)	75,065,570	12,884,018	29,910,376	1,753,099
Program Cost (% of Program)					
Administrative	(%)	50.27%	100%	90.42%	50.50%
Education, Surveys, Marketing	(%)	49.73%	N/A	9.58%	23.07%
Equipment, Installation, O&M	(%)	N/A	N/A	N/A	N/A
Incentives / Rebates	(%)	N/A	N/A	N/A	26.42%
Program Rate Impact					
Residential Rate Impact	(\$/1200kWh)	\$0.37	\$0.06	\$0.14	\$0.01
Percentage of Total ECCR Rate	(%)	5.83%	0.99%	2.15%	0.13%
Lost Revenues	(\$)	N/A	N/A	N/A	N/A

Program	Better Business	Business Energy Saver	Commercial Education	Business Energy Response	Commercial Green Building	Commercial / Industrial / New Construction	Standby Generation	Solar for Schools	Commercial Solar Photovoltaics	Curtainable	Interruptible	Residential Solar Photovoltaics	Solar Water Heating for Low Income Residential Customers	Solar Water Heating with Energy Management	Residential Education	Residential Energy Management	Home Energy Improvement	Low Income Weatherization	Neighborhood Energy Saver	Residential New Construction	Technical Potential
Lost Revenue	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	\$1,403	\$27	\$314	\$3	\$48	\$330	\$8	\$0	\$29	\$1	\$1	\$28	\$0	\$263	\$6,526	\$783	\$4,132	\$83	\$410	\$385	\$3,335
2011	\$3,067	\$57	\$679	\$5	\$129	\$734	\$22	\$0	\$151	\$1	\$1	\$150	\$10	\$834	\$13,869	\$888	\$9,855	\$155	\$1,217	\$1,002	\$6,672
2012	\$4,546	\$87	\$1,003	\$10,460	\$226	\$1,112	\$26	\$0	\$265	\$2	\$2	\$265	\$20	\$1,359	\$20,542	\$956	\$15,291	\$246	\$2,131	\$1,612	\$11,896
2013	\$6,226	\$125	\$1,429	\$18,778	\$450	\$1,626	\$27	\$0	\$402	\$2	\$3	\$400	\$31	\$1,994	\$28,882	\$1,270	\$22,172	\$387	\$3,346	\$2,408	\$20,334
2014	\$8,067	\$170	\$1,809	\$19,597	\$690	\$2,176	\$36	\$0	\$548	\$3	\$3	\$542	\$42	\$2,658	\$37,558	\$829	\$29,759	\$552	\$4,744	\$3,550	\$30,265
2015	\$10,955	\$218	\$2,108	\$21,487	\$1,028	\$2,955	\$47	\$2	\$600	\$4	\$5	\$587	\$46	\$2,880	\$41,033	\$1,492	\$40,258	\$789	\$6,661	\$5,049	\$55,724
2016	\$13,309	\$251	\$2,056	\$21,152	\$1,279	\$3,384	\$90	\$51	\$592	\$5	\$5	\$580	\$45	\$2,840	\$40,757	\$1,601	\$48,335	\$989	\$8,207	\$6,251	\$87,254
2017	\$14,210	\$248	\$1,767	\$18,331	\$1,262	\$3,359	\$89	\$86	\$511	\$5	\$5	\$510	\$40	\$2,505	\$36,037	\$1,495	\$50,925	\$1,005	\$8,480	\$6,721	\$110,293
2018	\$16,880	\$260	\$1,595	\$17,549	\$1,330	\$3,668	\$95	\$122	\$489	\$5	\$5	\$491	\$38	\$2,409	\$34,749	\$1,302	\$57,710	\$1,147	\$9,264	\$7,725	\$147,367
2019	\$22,217	\$294	\$1,571	\$18,374	\$1,497	\$4,353	\$111	\$169	\$512	\$6	\$6	\$511	\$40	\$2,507	\$36,283	\$1,391	\$69,992	\$1,384	\$10,695	\$9,481	\$199,527
2020	\$22,289	\$266	\$1,309	\$18,911	\$1,539	\$4,325	\$114	\$174	\$528	\$6	\$7	\$525	\$41	\$2,567	\$29,784	\$1,458	\$71,692	\$1,326	\$10,198	\$9,711	\$194,691

Program Information - Total Cost		Water Business	Business Energy Sector	Commercial Education	Business Energy Response	Commercial Green Building	Commercial / Industrial New Construction	Steady Circulation	Solar for Schools	Commercial Solar Photovoltaics	Curtilable	Interruptible	Residential Solar Photovoltaics	Solar Water Heating for Low Income Residential	Commercial Solar Water Heating with Energy Management	Residential Education	Residential Energy Management	Home Energy Improvement	Low Income Weatherization	Neighborhood Energy Sector	Residential New Construction	Technical Potential	
Program Rate Impact																							
Residential Rate Impact	(\$/100kWh)	\$0.31	\$0.01	\$0.07	\$0.41	\$0.03	\$0.13	\$0.06	\$0.01	\$0.02	\$0.03	\$0.65	\$0.01	\$0.00	\$0.04	\$0.52	\$1.21	\$0.88	\$0.03	\$0.08	\$0.10	\$1.16	
Percentage of Total ECCR Rate	(%)	4.95%	0.18%	1.12%	6.43%	0.40%	1.97%	0.97%	0.14%	0.25%	0.54%	10.23%	0.20%	0.02%	0.55%	8.25%	18.97%	13.81%	0.42%	1.32%	1.57%	18.33%	

Measure Information - Total Costs	Measure Rate Impact	
Better Business	Residential Rate Impact	% of Total ECCR Rate
Component Measure Name	(\$/1200kWh)	(%)
Premium T8, EB 2010-2 (with AC Savings)	\$0.0122	0.1921%
Occupancy Sensor 2010-2 (per KW connected Lighting)	\$0.0045	0.0712%
CMH 39 Ceramic MH (RFL150) (with AC Savings)	\$0.0027	0.0425%
High Bay T5	\$0.0030	0.0469%
LED Display Lighting	\$0.0055	0.0861%
CFL 26w hardwire kit	\$0.0003	0.0045%
Centrifugal Chiller, 0.63 to .60 KW/ton	\$0.0116	0.1832%
Chiller--rotary/screw .72 to .67 kw/ton	\$0.0008	0.0131%
Chiller--Air cooled 1.26 to 1.17 kw/ton	\$0.0006	0.0097%
DX Packaged System, EER=10.6 (20 tons)	\$0.0012	0.0181%
Hybrid Desiccant-DX EER 10.6 (Trane CDQ)	\$0.0041	0.0639%
Geothermal Heat Pump EER/COP 14.1/3.3	\$0.0042	0.0658%
SEER 13 AC to SEER 14 HP to 2014	\$0.0018	0.0288%
SEER 13 AC to SEER 15 HP	\$0.0039	0.0617%
SEER 13 AC to SEER 17 HP	\$0.0057	0.0898%
SEER 13 HP to SEER 14 HP to 2014	\$0.0010	0.0155%
SEER 13 HP to SEER 15HP	\$0.0009	0.0144%
SEER 13 HP to SEER 17 HP	\$0.0029	0.0450%
PTAC to PTHP 10k EER 8.7 - EER 9.7/2.9	\$0.0023	0.0365%
PTHP to PTHP 10k EER 8.7/2.6 - EER 9.7/2.9	\$0.0020	0.0311%
SPV HP EER/COP 8.6/2.7 - 9.46/2.97	\$0.0005	0.0085%
Demand Control Ventilation (DCV)	\$0.0037	0.0589%
Energy Recovery Ventilation (ERV)	\$0.0069	0.1084%
Duct Repair	\$0.0006	0.0088%
PTAC-HP Coil Cleaning (20 tons) p/ton	\$0.0009	0.0144%
DX Tune Up	\$0.0027	0.0428%
DX RTU Re-commissioning	\$0.0162	0.2545%
Thermal Energy Storage (TES)	\$0.0302	0.4756%
Window Film (Standard)	\$0.0030	0.0473%
Ceiling Insulation <R11 to R19 to 2014	\$0.0001	0.0021%
Ceiling insulation <R11 to R30	\$0.0020	0.0315%
Roof Insulation <R11 to R19 to 2014	\$0.0028	0.0435%
Cool Roof with Roof Insulation <R11 to R19	\$0.0120	0.1890%
Cool Roof - Chiller	\$0.0081	0.1275%
Cool Roof - DX	\$0.0322	0.5070%
Green Roof	\$0.0008	0.0132%
Compressed Air Tune Up	\$0.0030	0.0473%
High Efficiency Motors > 200 HP (225HP) p/HP	\$0.0020	0.0311%
Electronically Commutated Motors (ECM) (750 x .067 HP) p/HP	\$0.0095	0.1490%
Premium T8, EB 2010-2 (with reflector)	\$0.0017	0.0262%
Induction Lighting /Cold Cathode 175 MH to 85 watt Induction	\$0.0281	0.4420%
Vending Mizers (Cooled machines only)	\$0.0067	0.1062%
Hotel AC control sensors	\$0.0327	0.5146%
Compressor VSD retrofit (Refrigeration)	\$0.0032	0.0500%
Oversized air cooled condenser (Refrigeration)	\$0.0000	0.0006%
EMS - Chiller Optimization	\$0.0043	0.0683%
Building Commissioning	\$0.0001	0.0016%
PTAC to PTAC	\$0.0015	0.0235%
13-14 SEER A/C	\$0.0001	0.0008%
15 SEER A/C	\$0.0001	0.0009%
16 SEER A/C	\$0.0001	0.0009%
19+ SEER A/C	\$0.0002	0.0025%
Heat Pump water heater air source (Water heating)	\$0.0008	0.0131%
Variable Speed Drive Control	\$0.0043	0.0671%
Exhaust Hood opt. (Ventilation)	\$0.0019	0.0291%
VSD for chiller and tower pumps (Cooling)	\$0.0023	0.0363%
Heat Pipe for AC package	\$0.0032	0.0500%
Multiplex Compressor system	\$0.0142	0.2241%
Ice Maker	\$0.0005	0.0082%

Measure Information - Total Costs	Measure Rate Impact	
	Residential Rate Impact (\$/1200kWh)	% of Total ECCR Rate (%)
Commercial - Industrial New Construction		
Component Measure Name	(\$/1200kWh)	(%)
Premium T8, EB 2010	\$0.0014	0.0225%
CMH 39 Ceramic MH (RFL150) 2010	\$0.0004	0.0067%
High Bay T5 2010	\$0.0007	0.0117%
LED Display Lighting 2010	\$0.0017	0.0265%
Centrifugal Chiller 0.60 KW/ton, (500 tons) 2010	\$0.0014	0.0223%
Centrifugal Chiller 0.55 KW/ton, (500 tons) 2013	\$0.0022	0.0343%
Chiller Rotary/screw .67 kw/ton (300 tons) 2010	\$0.0002	0.0025%
Chiller Rotary/screw .60 kw/ton (300 tons) 2013	\$0.0002	0.0038%
Chiller--Air cooled 1.17 kw/ton (50 tons) 2010	\$0.0001	0.0012%
Chiller--Air cooled 1.05 kw/ton (50 tons) 2013	\$0.0001	0.0019%
DX Packaged System EER 9.7 - 10.6 (15 ton) 2010	\$0.0011	0.0168%
DX Packaged System EER 10.4 - 11.1 (15 ton) 2013	\$0.0022	0.0341%
Hybrid Desiccant-DX EER 10.6 (Trane CDQ) 2010	\$0.0009	0.0137%
Hybrid Desiccant-DX EER 11.1 (Trane CDQ) 2013	\$0.0012	0.0189%
Geothermal Heat Pump EER/COP 14.1/3.3 2010	\$0.0006	0.0092%
Geothermal Heat Pump EER/COP 15.5/3.5 2013-2019	\$0.0009	0.0138%
SEER 13 HP to SEER 14 HP 2010	\$0.0005	0.0073%
SEER 14.5 HP to SEER 16 HP 2013	\$0.0007	0.0103%
SEER 13 HP to SEER 15 HP 2010	\$0.0007	0.0116%
SEER 14.5 HP to SEER 17 HP 2013	\$0.0009	0.0143%
SEER 13 HP to SEER 17 HP 2010	\$0.0010	0.0151%
SEER 14.5 HP to SEER 18 HP 2013	\$0.0012	0.0193%
PTAC-PTHP 11k EER/COP 10.8-2.95 2010	\$0.0005	0.0075%
PTAC-PTHP 11k EER/COP 11.6-3.2 2013	\$0.0005	0.0086%
Demand Control Ventilation (DCV) 2010	\$0.0002	0.0034%
Energy Recovery Ventilation (ERV) 2010	\$0.0011	0.0180%
Thermal Energy Storage (TES)	\$0.0799	1.2567%
Window Film SHGC .40 (Standard) 2010	\$0.0006	0.0090%
Window Film SHGC .36 (Standard) 2013	\$0.0009	0.0146%
Roof Insulation R-11 to R-19 2010	\$0.0011	0.0168%
Roof Insulation R-13 to R-19 2013	\$0.0010	0.0159%
Cool Roof with Insulation R11 to R19 2010	\$0.0006	0.0098%
Cool Roof with Insulation R15 to R19 2013	\$0.0008	0.0133%
Cool Roof - Chiller .60 kw/ton 2010	\$0.0007	0.0108%
Cool Roof - Chiller .55 kw/ton 2013	\$0.0008	0.0131%
Cool Roof - DX EER 9 2010	\$0.0010	0.0157%
Cool Roof - DX EER 10 2013	\$0.0013	0.0201%
Green Roof	\$0.0006	0.0102%
High Efficiency Motors > 200 HP (225HP) p/HP	\$0.0001	0.0016%
Electronically Commutated Motors (ECM) (750 x .067 HP)	\$0.0008	0.0120%
Induction Lighting /Cold Cathode	\$0.0015	0.0243%
Vending Mizers	\$0.0004	0.0068%
Oversized air cooled condenser (Refrigeration)	\$0.0002	0.0033%
Building Commissioning	\$0.0008	0.0132%
15 SEER A/C	\$0.0002	0.0038%
16 SEER A/C	\$0.0002	0.0039%
19+ SEER A/C	\$0.0007	0.0109%
Variable speed drive control	\$0.0040	0.0628%
VSD for chiller and tower pumps (Cooling)	\$0.0002	0.0037%
Heat Pipe	\$0.0016	0.0251%
Multiplex Compressor system	\$0.0022	0.0340%
Ice Maker	\$0.0001	0.0010%

Measure Information - Total Costs	Measure Rate Impact	
Business Energy Saver	Residential Rate Impact	% of Total ECCR Rate
Component Measure Name	(\$/1200kWh)	(%)
Window film/sun screen	\$0.0009	0.0145%
HVAC tune-up /clean	\$0.0023	0.0364%
CF23	\$0.0005	0.0071%
CF18	\$0.0009	0.0146%
CF15	\$0.0002	0.0031%
CF11	\$0.0001	0.0018%
WH wrap	\$0.0001	0.0016%
WH temp	\$0.0002	0.0039%
Aerators	\$0.0007	0.0104%
Ref brush	\$0.0004	0.0059%
Ref therm	\$0.0003	0.0040%
Switch plate thermometer	\$0.0004	0.0069%
AC weatherization kit	\$0.0001	0.0014%
Foam Insulation	\$0.0001	0.0011%
Caulk	\$0.0002	0.0038%
Weather stripping	\$0.0007	0.0111%
Door sweep	\$0.0009	0.0135%
AC filter -- 12	\$0.0013	0.0209%
Glass tape	\$0.0000	0.0003%
Insulation	\$0.0009	0.0143%

Measure Information - Total Costs	Measure Rate Impact	
Com Educational Tools	Residential Rate Impact	% of Total ECCR Rate
Component Measure Name	(\$/1200kWh)	(%)
CFL 60W to 13-15W (Guest Room)	\$0.0267	0.4200%
Refrigerator Thermometer	\$0.0122	0.1913%
Switch plate thermometer	\$0.0135	0.2119%
Weatherization 2006 Insulation R-19	\$0.0191	0.3011%

Measure Information - Total Costs	Measure Rate Impact	
	Residential Rate Impact	% of Total ECCR Rate
Home Energy Improvements	(\$/1200kWh)	(%)
Component Measure Name	(\$/1200kWh)	(%)
15 SEER A/C	\$0.0029	0.0462%
15 SEER A/C	\$0.0005	0.0077%
15 SEER HP to HP	\$0.0953	1.4994%
15 SEER HP to HP	\$0.0027	0.0426%
15 SEER Strip to HP	\$0.0619	0.9746%
15 SEER Strip to HP	\$0.0017	0.0269%
16 SEER A/C	\$0.0041	0.0641%
16 SEER A/C	\$0.0007	0.0107%
16 SEER HP to HP	\$0.0210	0.3305%
16 SEER HP to HP	\$0.0007	0.0107%
16 SEER Strip to HP	\$0.0136	0.2137%
16 SEER Strip to HP	\$0.0008	0.0127%
19+ SEER A/C	\$0.0012	0.0185%
19+ SEER A/C	\$0.0004	0.0062%
19+ SEER HP to HP	\$0.0047	0.0739%
19+ SEER HP to HP	\$0.0008	0.0123%
19+ SEER Strip to HP	\$0.0037	0.0584%
19+ SEER Strip to HP	\$0.0012	0.0195%
Duct Repair	\$0.0783	1.2315%
Duct Repair	\$0.0434	0.6836%
Duct Test	\$0.0673	1.0590%
Geothermal Heat Pumps	\$0.0050	0.0793%
HVAC Commissioning	\$0.0027	0.0432%
HVAC Commissioning	\$0.0002	0.0030%
HVAC Tune-up	\$0.0404	0.6356%
HVAC Tune-up	\$0.0161	0.2532%
HVAC Plenum Seal	\$0.0010	0.0154%
HVAC Plenum Seal	\$0.0001	0.0013%
HVAC Proper Sizing	\$0.0034	0.0530%
HVAC Proper Sizing	\$0.0009	0.0144%
HVAC QI Commission Plem Seal & Sizing	\$0.0430	0.6761%
HVAC QI Commission Plem Seal & Sizing	\$0.0156	0.2453%
Insulation - Wall (R5 to R10)	\$0.0296	0.4654%
Attic Insulation <R15 to R30	\$0.0047	0.0733%
Attic Insulation <R15 to R30	\$0.0009	0.0147%
Attic Insulation R19	\$0.0008	0.0127%
Attic Insulation R19	\$0.0009	0.0137%
Attic Insulation R30	\$0.0630	0.9913%
Attic Insulation R30	\$0.0026	0.0413%
Reflective Roof	\$0.0065	0.1022%
Reflective Roof	\$0.0015	0.0240%
Reflective Roof Coating	\$0.0006	0.0102%
Window Film (west only)	\$0.0009	0.0136%
Window Film (west only)	\$0.0002	0.0034%
Window Film (all but north)	\$0.0054	0.0843%
Window Film (all but north)	\$0.0024	0.0383%
Windows 4/3 (vinyl)	\$0.0114	0.1799%
Windows 4/3 (vinyl)	\$0.0027	0.0423%
Windows 65/4 (alum)	\$0.0034	0.0533%
Windows 65/4 (alum)	\$0.0005	0.0071%
Heat Pump Water Heater	\$0.1697	2.6706%
Early Replace. 15 SEER A/C	\$0.0006	0.0097%
Early Replace. 15 SEER A/C	\$0.0001	0.0016%
Early Replace. 15 SEER HP to HP	\$0.0085	0.1332%
Early Replace. 15 SEER HP to HP	\$0.0005	0.0084%
Early Replace. 15 SEER Strip to HP	\$0.0088	0.1378%
Early Replace. 15 SEER Strip to HP	\$0.0003	0.0042%
Early Replace. 16 SEER A/C	\$0.0007	0.0105%
Early Replace. 16 SEER A/C	\$0.0001	0.0018%
Early Replace. 16 SEER HP to HP	\$0.0046	0.0730%
Early Replace. 16 SEER HP to HP	\$0.0001	0.0017%
Early Replace. 16 SEER Strip to HP	\$0.0053	0.0841%
Early Replace. 16 SEER Strip to HP	\$0.0001	0.0019%
Early Replace. 19+ SEER A/C	\$0.0006	0.0095%
Early Replace. 19+ SEER A/C	\$0.0002	0.0031%
Early Replace. 19+ SEER HP to HP	\$0.0024	0.0378%
Early Replace. 19+ SEER HP to HP	\$0.0004	0.0063%
Early Replace. 19+ SEER Strip to HP	\$0.0013	0.0197%
Early Replace. 19+ SEER Strip to HP	\$0.0004	0.0066%

Measure Information - Total Costs	Measure Rate Impact	
Res New Construction	Residential Rate Impact	% of Total ECCR Rate
Component Measure Name	(\$/1200kWh)	(%)
15 SEER HP	\$0.0068	0.1069%
15 SEER HP	\$0.0014	0.0214%
16 SEER HP	\$0.0229	0.3602%
16 SEER HP	\$0.0076	0.1201%
19+ SEER HP	\$0.0033	0.0524%
19+ SEER HP	\$0.0011	0.0175%
Seal Ducts	\$0.0048	0.0751%
Seal Ducts	\$0.0028	0.0448%
Energy Star - 2 HA measures installed	\$0.0045	0.0712%
Energy Star - 2 HA measures installed	\$0.0008	0.0121%
Geothermal Heat Pumps	\$0.0009	0.0135%
HVAC Commissioning	\$0.0003	0.0047%
HVAC Commissioning	\$0.0001	0.0020%
HVAC ACCA Quality Installation	\$0.0115	0.1805%
HVAC ACCA Quality Installation	\$0.0069	0.1086%
Insulation - Advanced Wall	\$0.0013	0.0199%
Insulation - Advanced Wall neg. load shape	\$0.0000	0.0000%
Multi-Family Heat Pump Installation - incentive covers incremental costs from straight cool to HP	\$0.0003	0.0055%
Code Plus 20 - > 20% of current FI Energy Code, aligns with \$2,000 Federal Tax Credit - 3 HA measures installed	\$0.0011	0.0178%
Windows .4/.3	\$0.0020	0.0313%
Windows .4/.3	\$0.0004	0.0063%
Heat Pump Water Heater	\$0.0190	0.2994%

Measure Information - Total Costs	Measure Rate Impact	
Neighborhood Energy Saver	Residential Rate Impact	% of Total ECCR Rate
Component Measure Name	(\$/1200kWh)	(%)
Insulation	\$0.0105	0.1660%
Solar Screen/Window film	\$0.0238	0.3744%
HVAC Tune-up	\$0.0105	0.1659%
CF23	\$0.0392	0.6170%
CF18	\$0.0000	0.0000%
CF15	\$0.0000	0.0000%
CF11	\$0.0000	0.0000%
Water Heater Wrap	\$0.0000	0.0000%
Water Heater Temp set	\$0.0000	0.0000%
Faucet Aerators	\$0.0000	0.0000%
Low flow Showerhead	\$0.0000	0.0000%
Refrigerator Coil Brush	\$0.0000	0.0000%
Refrigerator Thermometer	\$0.0000	0.0000%
Wall Switch Plate Thermometer	\$0.0000	0.0000%
AC Window unit Winter Kit	\$0.0000	0.0000%
Foam Insulation on Pipe Penetrations	\$0.0000	0.0000%
HVAC Caulking	\$0.0000	0.0000%
Weather Strip	\$0.0000	0.0000%
Door Sweep	\$0.0000	0.0000%
AC Filters - annual supply	\$0.0000	0.0000%
Glass Tape - window repair	\$0.0000	0.0000%

Measure Information - Total Costs	Measure Rate Impact	
Low Income Weatherization	Residential Rate Impact	% of Total ECCR Rate
Component Measure Name	(\$/1200kWh)	(%)
Window Film/ Screen Single Family	\$0.0006	0.0096%
Roof Coating	\$0.0014	0.0227%
Weatherization Reduce Infiltration	\$0.0031	0.0493%
Weatherization 2006 Insulation R-19	\$0.0008	0.0131%
Weatherization 2006 Insulation R-30	\$0.0012	0.0193%
Weatherization Duct Test	\$0.0002	0.0032%
Weatherization 2006 Duct Repair - Ducted System	\$0.0007	0.0107%
Weatherization Duct Repair-NonDucted System	\$0.0000	0.0004%
Weatherization 2006 Heat Pump to Heat Pump SEER 14	\$0.0000	0.0002%
Weatherization 2006 Heat Pump to Heat Pump SEER 15	\$0.0000	0.0003%
Weatherization 2006 Resist Heat to Heat Pump SEER 14	\$0.0017	0.0268%
Weatherization 2006 Resist Heat to Heat Pump SEER 15	\$0.0000	0.0006%
Weatherization HVAC Tune Up	\$0.0016	0.0252%
Weatherization Compact Fluorescent Light Bulb	\$0.0027	0.0421%
Weatherization Refrigerator coil brush	\$0.0001	0.0011%
Weatherization Wrap Water Heater	\$0.0010	0.0161%
Weatherization Heat Pump Water Heater	\$0.0000	0.0003%
Weatherization Low Flow Showerhead	\$0.0008	0.0121%
Weatherization Faucet Aerator	\$0.0001	0.0023%
Energy Star window A/C	\$0.0041	0.0640%
Educate/ Workshops	\$0.0062	0.0971%

Measure Information - Total Costs	Measure Rate Impact	
Res Education	Residential Rate Impact	% of Total ECCR Rate
Component Measure Name	(\$/1200kWh)	(%)
Free Walk-Through HEC	\$0.2504	3.9403%
Mail-in HEC	\$0.0003	0.0047%
Online HEC	\$0.0603	0.9480%
Phone Assisted HEC	\$0.0449	0.7057%
Kiosk HEC	\$0.0112	0.1760%
Trade (events like home shows)	\$0.0041	0.0642%
Credit upgrade to Walk-Through from other HEC	\$0.0000	0.0000%
Energy Efficiency Kit credit - Free Walk-Through	\$0.0423	0.6663%
Energy Efficiency Kit credit - except Free Walk-Through	\$0.1107	1.7418%

Measure Information - Total Costs	Measure Rate Impact	
Technical Potential	Residential Rate Impact	% of Total ECCR Rate
Component Measure Name	(\$/1200kWh)	(%)
Water heater blanket on old water heaters	\$0.0191	0.3003%
Annual maintenance	\$0.2547	4.0069%
Install solar window screens	\$0.0484	0.7609%
Replace current HVAC system with high efficiency	\$0.5252	8.2638%
Pool Pump (variable)	\$0.1079	1.6978%
CFL discounts thru retailers	\$0.0756	1.1898%
Freezer Recycling	\$0.0058	0.0913%
Refrigerator Recycling	\$0.0522	0.8220%
Air Filters	\$0.0759	1.1942%