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April 27, 2015

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**-VIA HAND DELIVERY-**

Carlotta Stauffer, Director  
Division of Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Blvd.  
Tallahassee, FL 32399-0850

**Re: Docket No. 150085-EG; FPL's Responses to Staff's First Data Request**

Dear Ms. Stauffer:

Please find enclosed an original and five copies of FPL's responses to Staff's First Data Request, Nos. 1-41. The response to Question No. 10 and the documents responsive to Question No. 34 are confidential, and are being filed separately with a Notice of Intent to Request Confidential Classification.

If there are any questions regarding this filing, please contact me at 561-304-5226.

Sincerely,

*Jessica A. Cano*  
for Jessica A. Cano  
Fla. Bar No. 0037372

- COM \_\_\_\_\_
- AFD \_\_\_\_\_
- APA \_\_\_\_\_
- ECO 2
- ENG 2+cc
- GCL 1
- IDM \_\_\_\_\_
- TEL \_\_\_\_\_
- CLK \_\_\_\_\_

**Q.**

Please provide the estimated costs of each program's incentives, administrative & equipment costs, and total costs for the ten-year goals period (nominal and net present value). Also, please provide the percentage of total costs that are used for incentives by program. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Costs (Nominal)				
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives
[Residential]				
Residential Subtotal				
[Comm/Industrial]				
Comm/Ind. Subtotal				
Common Expenses				
<b>Total</b>				

Program Costs (NPV)				
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives
[Residential]				
Residential Subtotal				
[Comm/Industrial]				
Comm/Ind. Subtotal				
Common Expenses				
<b>Total</b>				

**A.**

Please see Attachment No. 1. Note that "n/a" (not applicable) is shown in the "Incentive" column for those programs that do not include incentives.



Florida Power & Light Company  
Docket No. 150085-EG  
Staff's First Data Request  
Request No. 1  
Attachment No. 1  
Tab 1 of 1

Program Costs (Nominal)				
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives
Residential Energy Survey	n/a	\$121,234,506	\$121,234,506	n/a
Residential Load Management (On Call®)	\$387,823,391	\$106,771,016	\$494,594,407	78%
Residential Air Conditioning	\$64,748,603	\$8,990,907	\$73,739,510	88%
Residential New Construction (BuildSmart®)	\$21,390,140	\$4,479,048	\$25,869,188	83%
Residential Ceiling Insulation	\$12,470,684	\$2,794,985	\$15,265,669	82%
Residential Low Income	\$6,590,300	\$861,260	\$7,451,560	88%
Residential Photovoltaic Pilot	\$4,000,000	\$210,246	\$4,210,246	95%
Residential Solar Water Heating Pilot	\$1,475,845	\$314,513	\$1,790,358	82%
Residential Solar Water Heating (LINC) Pilot	\$1,000,000	\$91,749	\$1,091,749	92%
<b>Residential Subtotal</b>	<b>\$499,498,963</b>	<b>\$245,748,230</b>	<b>\$745,247,193</b>	
Business Energy Evaluation	n/a	\$94,765,135	\$94,765,135	n/a
Business On Call	\$38,449,462	\$6,868,119	\$45,317,581	85%
Commercial/Industrial Demand Reduction	\$227,073,471	\$4,527,291	\$231,600,761	98%
Commercial/Industrial Load Control	\$417,542,170	\$3,417,981	\$420,960,151	99%
Business Heating, Ventilating, & Air Conditioning	\$56,338,677	\$12,810,956	\$69,149,633	81%
Business Lighting	\$2,841,355	\$2,099,584	\$4,940,940	58%
Business Custom Incentive	\$1,368,535	\$339,152	\$1,707,687	80%
Business Photovoltaic Pilot	\$2,800,000	\$150,496	\$2,950,496	95%
Business Photovoltaic for Schools Pilot	n/a	\$11,616,106	\$11,616,106	n/a
Business Solar Water Heating Pilot	\$1,000,000	\$82,207	\$1,082,207	92%
<b>Business Subtotal</b>	<b>\$747,413,670</b>	<b>\$136,677,027</b>	<b>\$884,090,696</b>	
Conservation Research & Development	n/a	\$2,718,720	\$2,718,720	n/a
Renewable Research & Demonstration	n/a	\$513,234	\$513,234	n/a
Cogeneration & Small Power Production	n/a	\$5,631,404	\$5,631,404	n/a
<b>Other Subtotal</b>	<b>n/a</b>	<b>\$8,863,359</b>	<b>\$8,863,359</b>	
Common Expenses	n/a	\$105,472,793	\$105,472,793	n/a
<b>Total</b>	<b>\$1,246,912,633</b>	<b>\$496,761,408</b>	<b>\$1,743,674,041</b>	

Program Costs (NPV)				
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives
Residential Energy Survey	n/a	\$89,485,861	\$89,485,861	n/a
Residential Load Management (On Call®)	\$287,761,397	\$78,369,136	\$366,130,532	79%
Residential Air Conditioning	\$46,891,751	\$6,419,083	\$53,310,834	88%
Residential New Construction (BuildSmart®)	\$14,750,152	\$3,161,509	\$17,911,661	82%
Residential Ceiling Insulation	\$8,899,868	\$1,966,187	\$10,866,055	82%
Residential Low Income	\$4,855,845	\$625,312	\$5,481,157	89%
Residential Photovoltaic Pilot	\$4,000,000	\$210,246	\$4,210,246	95%
Residential Solar Water Heating Pilot	\$1,475,845	\$314,513	\$1,790,358	82%
Residential Solar Water Heating (LINC) Pilot	\$1,000,000	\$91,749	\$1,091,749	92%
<b>Residential Subtotal</b>	<b>\$369,634,857</b>	<b>\$180,643,597</b>	<b>\$550,278,454</b>	
Business Energy Evaluation	n/a	\$69,204,049	\$69,204,049	n/a
Business On Call	\$27,888,962	\$5,040,576	\$32,929,538	85%
Commercial/Industrial Demand Reduction	\$164,012,959	\$3,289,039	\$167,301,998	98%
Commercial/Industrial Load Control	\$307,024,251	\$2,484,358	\$309,508,608	99%
Business Heating, Ventilating, & Air Conditioning	\$40,981,166	\$9,176,058	\$50,157,223	82%
Business Lighting	\$1,998,017	\$1,460,219	\$3,458,236	58%
Business Custom Incentive	\$986,667	\$245,523	\$1,232,190	80%
Business Photovoltaic Pilot	\$2,800,000	\$150,496	\$2,950,496	95%
Business Photovoltaic for Schools Pilot	n/a	\$10,007,879	\$10,007,879	n/a
Business Solar Water Heating Pilot	\$1,000,000	\$82,207	\$1,082,207	92%
<b>Business Subtotal</b>	<b>\$546,692,020</b>	<b>\$101,140,404</b>	<b>\$647,832,425</b>	
Conservation Research & Development	n/a	\$2,060,762	\$2,060,762	n/a
Renewable Research & Demonstration	n/a	\$513,234	\$513,234	n/a
Cogeneration & Small Power Production	n/a	\$4,072,607	\$4,072,607	n/a
<b>Other Subtotal</b>	<b>n/a</b>	<b>\$6,646,603</b>	<b>\$6,646,603</b>	
Common Expenses	n/a	\$79,671,126	\$79,671,126	n/a
<b>Total</b>	<b>\$916,326,878</b>	<b>\$368,101,730</b>	<b>\$1,284,428,608</b>	



**Q.**

Please provide the estimated costs of each program's administrative & equipment costs, costs for the ten-year goals period (nominal and net present value), broken into the categories detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Administrative & Equipment Costs (Nominal)									
Program Name	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total
[Residential]									
Residential Total									
[Comm/Ind.]									
Comm/Ind. Total									
Common Expenses									
<b>Total</b>									

Program Administrative & Equipment Costs (NPV)									
Program Name	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total
[Residential]									
Residential Total									
[Comm/Ind.]									
Comm/Ind. Total									
Common Expenses									
<b>Total</b>									

**A.**

Please see Attachment No. 1. Note that FPL did not develop its administrative cost projections for the DSM Plan using the requested detailed categories. Therefore, for purposes of this response FPL has used various allocations based on past actual costs, etc. to reasonably attribute the costs to each category.

Program Administrative & Equipment Costs (Nominal)									
Program Name	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total
Residential Energy Survey	\$690,292	\$46,462,523	\$246,001	\$13,226,083	\$55,227,182	\$874,304	\$4,508,122	n/a	\$121,234,506
Residential Load Management (On Call®)	\$69,051,680	\$22,034,229	(\$14,351,605)	\$23,763,020	\$0	\$130,105	\$6,143,587	n/a	\$106,771,016
Residential Air Conditioning	\$0	\$7,552,405	\$5,679	\$761,650	\$0	\$238,771	\$432,402	n/a	\$8,990,907
Residential New Construction (BuildSmart®)	\$0	\$2,529,306	\$2,037	\$1,422,614	\$0	\$115,063	\$410,028	n/a	\$4,479,048
Residential Ceiling Insulation	\$0	\$2,391,614	\$113,277	\$89,492	\$0	\$0	\$200,603	n/a	\$2,794,985
Residential Low Income	\$0	\$684,748	\$221	\$0	\$0	\$13,347	\$162,944	n/a	\$861,260
Residential Photovoltaic Pilot	\$0	\$191,509	\$0	\$12,500	\$0	\$1,267	\$4,970	n/a	\$210,246
Residential Solar Water Heating Pilot	\$0	\$214,038	\$0	\$94,388	\$0	\$1,267	\$4,820	n/a	\$314,513
Residential Solar Water Heating (LINC) Pilot	\$0	\$76,629	\$0	\$13,500	\$0	\$0	\$1,620	n/a	\$91,749
<b>Residential Subtotal</b>	<b>\$69,741,972</b>	<b>\$82,137,000</b>	<b>(\$13,984,391)</b>	<b>\$39,383,247</b>	<b>\$55,227,182</b>	<b>\$1,374,124</b>	<b>\$11,869,097</b>	<b>n/a</b>	<b>\$245,748,230</b>
Business Energy Evaluation	\$0	\$53,368,485	\$140,042	\$11,158,650	\$26,010,000	\$492,691	\$3,595,266	n/a	\$94,765,135
Business On Call	\$3,864,560	\$1,265,153	(\$1,460,000)	\$2,609,870	\$0	\$30,764	\$557,772	n/a	\$6,868,119
Commercial/Industrial Demand Reduction	\$0	\$3,473,026	\$86,260	\$96,290	\$0	\$226	\$871,489	n/a	\$4,527,291
Commercial/Industrial Load Control	\$0	\$2,743,439	\$12,138	\$11,174	\$0	\$2,521	\$648,709	n/a	\$3,417,981
Business Heating, Ventilating, & Air Conditioning	\$0	\$10,180,190	\$4,380	\$1,408,751	\$0	\$335,813	\$881,820	n/a	\$12,810,956
Business Lighting	\$0	\$1,699,568	\$338	\$284,848	\$0	\$24,319	\$90,512	n/a	\$2,099,584
Business Custom Incentive	\$0	\$321,184	\$154	\$0	\$0	\$3,385	\$14,428	n/a	\$339,152
Business Photovoltaic Pilot	\$0	\$79,909	\$0	\$68,717	\$0	\$0	\$1,870	n/a	\$150,496
Business Photovoltaic for Schools Pilot	\$11,447,814	\$105,582	\$0	\$62,000	\$0	\$0	\$710	n/a	\$11,616,106
Business Solar Water Heating Pilot	\$0	\$35,225	\$0	\$44,862	\$0	\$0	\$2,120	n/a	\$82,207
<b>Business Subtotal</b>	<b>\$15,312,374</b>	<b>\$73,271,762</b>	<b>(\$1,216,688)</b>	<b>\$15,745,162</b>	<b>\$26,010,000</b>	<b>\$889,720</b>	<b>\$6,664,696</b>	<b>n/a</b>	<b>\$136,677,027</b>
Conservation Research & Development	\$0	\$379,800	\$136,939	\$2,198,795	\$0	\$0	\$3,187	n/a	\$2,718,720
Renewable Research & Demonstration	\$0	\$34,070	\$0	\$477,544	\$0	\$0	\$1,620	n/a	\$513,234
Cogeneration & Small Power Production	\$0	\$7,515,228	\$0	\$93,560	\$0	\$0	(\$1,977,384)	n/a	\$5,631,404
<b>Other Subtotal</b>	<b>\$0</b>	<b>\$7,929,099</b>	<b>\$136,939</b>	<b>\$2,769,899</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$1,972,577)</b>	<b>n/a</b>	<b>\$8,863,359</b>
Common Expenses	\$11,301,374	\$76,217,845	\$111,229	\$5,447,641	\$0	\$87,427	\$12,307,277	n/a	\$105,472,793
<b>Total</b>	<b>\$96,355,720</b>	<b>\$239,555,705</b>	<b>(\$14,952,911)</b>	<b>\$63,345,949</b>	<b>\$81,237,182</b>	<b>\$2,351,271</b>	<b>\$28,868,492</b>	<b>n/a</b>	<b>\$496,761,408</b>

Program Administrative & Equipment Costs (NPV)									
Program Name	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Vehicles & Travel	Other	Revenues (if any)	Total
Residential Energy Survey	\$597,212	\$34,109,823	\$172,002	\$9,787,297	\$40,868,093	\$641,858	\$3,309,576	n/a	\$89,485,861
Residential Load Management (On Call®)	\$50,878,448	\$15,997,810	(\$10,571,093)	\$17,508,996	\$0	\$94,462	\$4,460,512	n/a	\$78,369,136
Residential Air Conditioning	\$0	\$5,392,060	\$4,054	\$543,782	\$0	\$170,472	\$308,715	n/a	\$6,419,083
Residential New Construction (BuildSmart®)	\$0	\$1,836,387	\$1,385	\$966,866	\$0	\$78,201	\$278,671	n/a	\$3,161,509
Residential Ceiling Insulation	\$0	\$1,682,428	\$79,687	\$62,955	\$0	\$0	\$141,118	n/a	\$1,966,187
Residential Low Income	\$0	\$497,157	\$160	\$0	\$0	\$9,691	\$118,305	n/a	\$625,312
Residential Photovoltaic Pilot	\$0	\$191,509	\$0	\$12,500	\$0	\$1,267	\$4,970	n/a	\$210,246
Residential Solar Water Heating Pilot	\$0	\$214,038	\$0	\$94,388	\$0	\$1,267	\$4,820	n/a	\$314,513
Residential Solar Water Heating (LINC) Pilot	\$0	\$76,629	\$0	\$13,500	\$0	\$0	\$1,620	n/a	\$91,749
<b>Residential Subtotal</b>	<b>\$51,475,660</b>	<b>\$59,997,840</b>	<b>(\$10,313,805)</b>	<b>\$28,990,283</b>	<b>\$40,868,093</b>	<b>\$997,217</b>	<b>\$8,628,307</b>	<b>n/a</b>	<b>\$180,643,597</b>
Business Energy Evaluation	\$0	\$38,747,846	\$101,677	\$8,221,882	\$19,164,609	\$357,715	\$2,610,320	n/a	\$69,204,049
Business On Call	\$2,847,473	\$918,556	(\$1,075,753)	\$1,922,996	\$0	\$22,336	\$404,966	n/a	\$5,040,576
Commercial/Industrial Demand Reduction	\$0	\$2,521,568	\$63,558	\$70,948	\$0	\$226	\$632,739	n/a	\$3,289,039
Commercial/Industrial Load Control	\$0	\$1,991,856	\$10,452	\$9,227	\$0	\$1,830	\$470,991	n/a	\$2,484,358
Business Heating, Ventilating, & Air Conditioning	\$0	\$7,291,729	\$3,138	\$1,009,041	\$0	\$240,532	\$631,618	n/a	\$9,176,058
Business Lighting	\$0	\$1,182,016	\$235	\$198,106	\$0	\$16,913	\$62,950	n/a	\$1,460,219
Business Custom Incentive	\$0	\$232,516	\$112	\$0	\$0	\$2,451	\$10,445	n/a	\$245,523
Business Photovoltaic Pilot	\$0	\$79,909	\$0	\$68,717	\$0	\$0	\$1,870	n/a	\$150,496
Business Photovoltaic for Schools Pilot	\$9,839,587	\$105,582	\$0	\$62,000	\$0	\$0	\$710	n/a	\$10,007,879
Business Solar Water Heating Pilot	\$0	\$35,225	\$0	\$44,862	\$0	\$0	\$2,120	n/a	\$82,207
<b>Business Subtotal</b>	<b>\$12,687,061</b>	<b>\$53,106,803</b>	<b>(\$896,582)</b>	<b>\$11,607,781</b>	<b>\$19,164,609</b>	<b>\$642,004</b>	<b>\$4,828,729</b>	<b>n/a</b>	<b>\$101,140,404</b>
Conservation Research & Development	\$0	\$310,764	\$96,894	\$1,650,849	\$0	\$0	\$2,255	n/a	\$2,060,762
Renewable Research & Demonstration	\$0	\$34,070	\$0	\$477,544	\$0	\$0	\$1,620	n/a	\$513,234
Cogeneration & Small Power Production	\$0	\$5,456,383	\$0	\$67,242	\$0	\$0	(\$1,451,018)	n/a	\$4,072,607
<b>Other Subtotal</b>	<b>\$0</b>	<b>\$5,801,217</b>	<b>\$96,894</b>	<b>\$2,195,635</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$1,447,143)</b>	<b>n/a</b>	<b>\$6,646,603</b>
Common Expenses	\$9,162,218	\$57,313,518	\$81,955	\$4,103,389	\$0	\$65,217	\$8,944,830	n/a	\$79,671,126
<b>Total</b>	<b>\$73,324,939</b>	<b>\$176,219,379</b>	<b>(\$11,031,537)</b>	<b>\$46,897,087</b>	<b>\$60,032,702</b>	<b>\$1,704,438</b>	<b>\$20,954,722</b>	<b>n/a</b>	<b>\$368,101,730</b>



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Request No. 3  
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**Q.**

For each program that includes "Outside Services" costs in Data Request No. 2 above, please detail what those outside services include.

**A.**

"Outside Services" costs are those incurred for activities performed by third-parties. These outsourced activities are for advertising agencies, measurement & verification, universities who perform research, installers of customer-premise equipment for residential and business load management, computer programming, and solar demonstration projects.

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Request No. 4  
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**Q.**

For each program that includes "Other" costs in Data Request No. 2 above, please detail what those Other costs include.

**A.**

"Other" costs are mostly for employee-related expenditures such as training, travel, participation in professional organizations, office supplies, etc. In addition, the fiber optic costs to communicate to substations for the Residential and Business On Call programs is also included.

**Q.**

Please provide the estimated costs of each program's incentive costs, costs for the ten-year goals period (nominal and net present value), broken into the categories detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Incentives (Nominal)			
Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total
[Residential]			
Residential Subtotal			
[Comm/Industrial]			
Comm/Ind. Subtotal			
Common Expenses			
<b>Total</b>			

Program Incentives (NPV)			
Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total
[Residential]			
Residential Subtotal			
[Comm/Industrial]			
Comm/Ind. Subtotal			
Common Expenses			
<b>Total</b>			

**A.**

Please see Attachment No. 1. Note that "n/a" (not applicable) is shown for those programs that do not include incentives.



Florida Power & Light Company

Docket No. 150085-EG

Staff's First Data Request

Request No. 5

Attachment No. 1

Tab 1 of 1

Program Incentives (Nominal)			
Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total
Residential Energy Survey	n/a	n/a	n/a
Residential Load Management (On Call®)	n/a	\$387,823,391	\$387,823,391
Residential Air Conditioning	\$64,748,603	n/a	\$64,748,603
Residential New Construction (BuildSmart®)	\$21,390,140	n/a	\$21,390,140
Residential Ceiling Insulation	\$12,470,684	n/a	\$12,470,684
Residential Low Income	\$6,590,300	n/a	\$6,590,300
Residential Photovoltaic Pilot	\$4,000,000	n/a	\$4,000,000
Residential Solar Water Heating Pilot	\$1,475,845	n/a	\$1,475,845
Residential Solar Water Heating (LINC) Pilot	\$1,000,000	n/a	\$1,000,000
<b>Residential Subtotal</b>	<b>\$111,675,572</b>	<b>\$387,823,391</b>	<b>\$499,498,963</b>
Business Energy Evaluation	n/a	n/a	n/a
Business On Call	n/a	\$38,449,462	\$38,449,462
Commercial/Industrial Demand Reduction	n/a	\$227,073,471	\$227,073,471
Commercial/Industrial Load Control	n/a	\$417,542,170	\$417,542,170
Business Heating, Ventilating, & Air Conditioning	\$56,338,677	n/a	\$56,338,677
Business Lighting	\$2,841,355	n/a	\$2,841,355
Business Custom Incentive	\$1,368,535	n/a	\$1,368,535
Business Photovoltaic Pilot	\$2,800,000	n/a	\$2,800,000
Business Photovoltaic for Schools Pilot	n/a	n/a	n/a
Business Solar Water Heating Pilot	\$1,000,000	n/a	\$1,000,000
<b>Business Subtotal</b>	<b>\$64,348,568</b>	<b>\$683,065,102</b>	<b>\$747,413,670</b>
Conservation Research & Development	n/a	n/a	n/a
Renewable Research & Demonstration	n/a	n/a	n/a
Cogeneration & Small Power Production	n/a	n/a	n/a
<b>Other Subtotal</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>
Common Expenses	n/a	n/a	n/a
<b>Total</b>	<b>\$176,024,139</b>	<b>\$1,070,888,493</b>	<b>\$1,246,912,633</b>

Program Incentives (NPV)			
Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total
Residential Energy Survey	n/a	n/a	n/a
Residential Load Management (On Call®)	n/a	\$287,761,397	\$287,761,397
Residential Air Conditioning	\$46,891,751	n/a	\$46,891,751
Residential New Construction (BuildSmart®)	\$14,750,152	n/a	\$14,750,152
Residential Ceiling Insulation	\$8,899,868	n/a	\$8,899,868

Residential Low Income	\$4,855,845	n/a	\$4,855,845
Residential Photovoltaic Pilot	\$4,000,000	n/a	\$4,000,000
Residential Solar Water Heating Pilot	\$1,475,845	n/a	\$1,475,845
Residential Solar Water Heating (LINC) Pilot	\$1,000,000	n/a	\$1,000,000
<b>Residential Subtotal</b>	<b>\$81,873,461</b>	<b>\$287,761,397</b>	<b>\$369,634,857</b>
Business Energy Evaluation	n/a	n/a	n/a
Business On Call	n/a	\$27,888,962	\$27,888,962
Commercial/Industrial Demand Reduction	n/a	\$164,012,959	\$164,012,959
Commercial/Industrial Load Control	n/a	\$307,024,251	\$307,024,251
Business Heating, Ventilating, & Air Conditioning	\$40,981,166	n/a	\$40,981,166
Business Lighting	\$1,998,017	n/a	\$1,998,017
Business Custom Incentive	\$986,667	n/a	\$986,667
Business Photovoltaic Pilot	\$2,800,000	n/a	\$2,800,000
Business Photovoltaic for Schools Pilot	n/a	n/a	n/a
Business Solar Water Heating Pilot	\$1,000,000	n/a	\$1,000,000
<b>Business Subtotal</b>	<b>\$47,765,849</b>	<b>\$498,926,171</b>	<b>\$546,692,020</b>
Conservation Research & Development	n/a	n/a	n/a
Renewable Research & Demonstration	n/a	n/a	n/a
Cogeneration & Small Power Production	n/a	n/a	n/a
<b>Other Subtotal</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>
Common Expenses	n/a	n/a	n/a
<b>Total</b>	<b>\$129,639,310</b>	<b>\$786,687,568</b>	<b>\$916,326,878</b>

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**Q.**

Please provide for each program with demand and energy savings the net present value of the benefits and costs described in the Rate Impact Measure Test and detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Name	Benefits					Costs					Net Benefit
	Gen	T&D	Fuel	Other	Total	Utility	Incentives	Lost Revenues	Other	Total	
[Residential]											
Residential Subtotal											
[Comm/Industrial]											
Comm/Ind. Subtotal											
<b>Total</b>											

**A.**

Please see Attachment No. 1.



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Program Name	RIM Benefits (\$000)					RIM Costs (\$000)					Net Benefit
	Gen	T&D	Fuel	Other*	Total	Utility	Incentives	Lost Revenues	Other	Total	
Buildsmart	8,303.8	1,792.8	8,104.9	(0.5)	18,201.0	1,707.9	5,815.8	10,153.1	0.0	17,676.8	524.1
Residential Ceiling Insulation	8,089.0	1,744.3	8,923.0	0.1	18,756.5	996.2	4,322.8	13,015.7	0.0	18,334.7	421.8
Residential Air Conditioning	43,474.2	9,386.5	55,869.0	2.9	108,732.5	4,357.6	28,615.1	74,848.7	0.0	107,821.4	911.1
Residential Load Management (On-Call)	95,850.1	0.0	132.7	(44.1)	95,938.8	17,074.4	23,770.3	107.4	0.0	40,952.1	54,986.7
Residential Low-Income	5,075.4	1,101.2	7,386.3	0.8	13,563.7	625.0	4,259.3	10,861.5	0.0	15,745.7	(2,182.0)
Residential PV	1,759.3	431.6	3,782.5	0.9	5,974.3	183.9	6,565.5	4,911.3	0.0	11,660.7	(5,686.4)
Residential Solar Water Heater	254.1	59.2	842.7	0.3	1,156.3	204.7	836.9	1,229.1	0.0	2,270.8	(1,114.4)
Residential SWH - Low Income	33.9	7.9	112.4	0.0	154.2	72.8	486.4	163.9	0.0	723.0	(568.8)
<b>Residential Subtotal</b>	<b>162,839.9</b>	<b>14,523.5</b>	<b>85,153.5</b>	<b>(39.6)</b>	<b>262,477.3</b>	<b>25,222.4</b>	<b>74,672.0</b>	<b>115,290.8</b>	<b>0.0</b>	<b>215,185.2</b>	<b>47,292.1</b>
Business HVAC	57,943.7	12,517.2	47,096.3	(7.4)	117,549.7	5,167.6	22,313.0	86,504.9	0.0	113,985.5	3,564.2
Business Lighting	17,513.4	3,776.8	31,239.8	5.3	52,535.4	871.8	1,063.8	49,349.9	0.0	51,285.5	1,249.8
Business On-Call	18,247.2	0.0	139.8	(8.3)	18,378.7	2,251.6	4,439.1	71.9	0.0	6,762.6	11,616.1
Comm./Ind. Demand Response	52,356.1	0.0	640.2	(23.5)	52,972.8	599.9	31,835.2	258.6	0.0	32,693.8	20,279.0
Business PV	1,314.8	322.5	3,046.2	0.7	4,684.3	76.0	2,604.1	2,939.1	0.0	5,619.3	(935.0)
Business PV for Schools	158.3	38.8	366.7	0.1	563.9	156.5	2,534.2	314.8	0.0	3,005.5	(2,441.6)
Business Solar Water Heater	128.8	30.0	303.9	0.1	462.8	34.7	848.4	487.2	0.0	1,370.4	(907.5)
<b>Comm/Ind. Subtotal</b>	<b>147,662.3</b>	<b>16,685.3</b>	<b>82,832.9</b>	<b>(32.9)</b>	<b>247,147.6</b>	<b>9,158.3</b>	<b>65,637.9</b>	<b>139,926.4</b>	<b>0.0</b>	<b>214,722.6</b>	<b>32,425.0</b>
<b>Total</b>	<b>310,502.2</b>	<b>31,208.8</b>	<b>167,986.4</b>	<b>(72.5)</b>	<b>509,624.8</b>	<b>34,380.6</b>	<b>140,309.9</b>	<b>255,217.2</b>	<b>0.0</b>	<b>429,907.8</b>	<b>79,717.1</b>

\* Other benefits are comprised of cost benefits from the reduction of SO2 and NOx emissions.

**Q.**

Please provide for each program with demand and energy savings the net present value of the benefits and costs described in the Total Resource Cost Test and detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Name	Benefits					Costs				Net Benefit
	Gen	T&D	Fuel	Other	Total	Utility	Participant	Other	Total	
[Residential]										
Residential Subtotal										
[Comm/Industrial]										
Comm/Ind. Subtotal										
<b>Total</b>										

**A.**

Please see Attachment No. 1.



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Program Name	TRC Benefits (\$000)					TRC Costs (\$000)				Net Benefit
	Gen	T&D	Fuel	Other	Total	Utility	Participant	Other	Total	
Buildsmart	8,303.8	1,792.8	8,104.9	(0.5)	18,201.0	1,707.9	9,014.0	0.0	10,721.8	7,479.1
Residential Ceiling Insulation	8,089.0	1,744.3	8,923.0	0.1	18,756.5	996.2	7,573.1	0.0	8,569.3	10,187.2
Residential Air Conditioning	43,474.2	9,386.5	55,869.0	2.9	108,732.5	4,357.6	126,369.6	0.0	130,727.1	(21,994.6)
Residential Load Management (On-Call)	95,850.1	0.0	132.7	(44.1)	95,938.8	17,074.4	0.0	0.0	17,074.4	78,864.4
Residential Low-Income	5,075.4	1,101.2	7,386.3	0.8	13,563.7	625.0	4,259.3	0.0	4,884.2	8,679.5
Residential PV	1,759.3	431.6	3,782.5	0.9	5,974.3	183.9	15,326.1	0.0	15,509.9	(9,535.7)
Residential Solar Water Heater	254.1	59.2	842.7	0.3	1,156.3	204.7	6,562.6	0.0	6,767.3	(5,611.0)
Residential SWH - Low Income	33.9	7.9	112.4	0.0	154.2	72.8	486.4	0.0	559.1	(404.9)
<b>Residential Subtotal</b>	<b>162,839.9</b>	<b>14,523.5</b>	<b>85,153.5</b>	<b>(39.6)</b>	<b>262,477.3</b>	<b>25,222.4</b>	<b>169,590.9</b>	<b>0.0</b>	<b>194,813.3</b>	<b>67,664.0</b>
Business HVAC	57,943.7	12,517.2	47,096.3	(7.4)	117,549.7	5,167.6	64,484.8	0.0	69,652.4	47,897.3
Business Lighting	17,513.4	3,776.8	31,239.8	5.3	52,535.4	871.8	13,958.9	0.0	14,830.7	37,704.6
Business On-Call	18,247.2	0.0	139.8	(8.3)	18,378.7	2,251.6	0.0	0.0	2,251.6	16,127.1
Comm./Ind. Demand Response	52,356.1	0.0	640.2	(23.5)	52,972.8	599.9	0.0	0.0	599.9	52,372.8
Business PV	1,314.8	322.5	3,046.2	0.7	4,684.3	76.0	8,553.9	0.0	8,629.9	(3,945.7)
Business PV for Schools	158.3	38.8	366.7	0.1	563.9	156.5	134.1	2,167.7	2,458.2	(1,894.4)
Business Solar Water Heater	128.8	30.0	303.9	0.1	462.8	34.7	2,679.9	0.0	2,714.7	(2,251.8)
<b>Comm/Ind. Subtotal</b>	<b>147,662.3</b>	<b>16,685.3</b>	<b>82,832.9</b>	<b>(32.9)</b>	<b>247,147.6</b>	<b>9,158.3</b>	<b>89,811.6</b>	<b>2,167.7</b>	<b>101,137.5</b>	<b>146,010.0</b>
<b>Total</b>	<b>310,502.2</b>	<b>31,208.8</b>	<b>167,986.4</b>	<b>(72.5)</b>	<b>509,624.8</b>	<b>34,380.6</b>	<b>259,402.5</b>	<b>2,167.7</b>	<b>295,950.8</b>	<b>213,674.1</b>



**Q.**

Please provide for each program with demand and energy savings the net present value of the benefits and costs described in the Participants Test and detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Name	Benefits					Costs				Net Benefit
	Bill Savings	Tax Credits	Incentive	Other	Total	Equipment	O&M	Other	Total	
[Residential]										
Residential Subtotal										
[Comm/Industrial]										
Comm/Ind. Subtotal										
<b>Total</b>										

**A.**

Please see Attachment No. 1.

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Program Name	Participant Benefits (\$000)					Participant Costs (\$000)				Net Benefit
	Bill Savings	Tax Credits	Incentive	Other	Total	Equipment	O&M	Other	Total	
Buildsmart	13,359.4	0.0	5,815.8	0.0	19,175.2	9,014.0	0.0	0.0	9,014.0	10,161.2
Residential Ceiling Insulation	17,125.9	0.0	4,322.8	0.0	21,448.7	7,573.1	0.0	0.0	7,573.1	13,875.6
Residential Air Conditioning	98,485.2	0.0	28,615.1	0.0	127,100.3	126,369.6	0.0	0.0	126,369.6	730.7
Residential Load Management (On-Call)	141.4	0.0	23,770.3	0.0	23,911.7	0.0	0.0	0.0	0.0	23,911.7
Residential Low-Income	14,291.4	0.0	0.0	0.0	14,291.4	0.0	0.0	0.0	0.0	14,291.4
Residential PV	6,462.3	1,920.7	6,565.5	0.0	14,948.4	13,131.8	2,194.2	0.0	15,326.1	(377.6)
Residential Solar Water Heater	1,617.3	1,711.4	836.9	0.0	4,165.6	6,562.6	0.0	0.0	6,562.6	(2,397.0)
Residential SWH - Low Income	215.7	0.0	0.0	0.0	215.7	0.0	0.0	0.0	0.0	215.7
<b>Residential Subtotal</b>	<b>151,698.4</b>	<b>3,632.1</b>	<b>69,926.4</b>	<b>0.0</b>	<b>225,256.9</b>	<b>162,651.1</b>	<b>2,194.2</b>	<b>0.0</b>	<b>164,845.3</b>	<b>60,411.6</b>
Business HVAC	93,610.5	0.0	22,313.0	0.0	115,923.5	62,721.5	1,763.3	0.0	64,484.8	51,438.7
Business Lighting	55,677.5	0.0	1,063.8	0.0	56,741.3	13,958.9	0.0	0.0	13,958.9	42,782.3
Business On-Call	86.6	0.0	4,439.1	0.0	4,525.7	0.0	0.0	0.0	0.0	4,525.7
Comm./Ind. Demand Response	311.6	0.0	31,835.2	0.0	32,146.8	0.0	0.0	0.0	0.0	32,146.8
Business PV	3,522.2	1,431.3	2,604.1	0.0	7,557.6	7,440.1	1,113.8	0.0	8,553.9	(996.3)
Business PV for Schools	365.1	0.0	0.0	0.0	365.1	0.0	134.1	0.0	134.1	231.1
Business Solar Water Heater	548.3	563.2	848.4	0.0	1,959.9	2,679.9	0.0	0.0	2,679.9	(720.0)
<b>Comm/Ind. Subtotal</b>	<b>154,121.8</b>	<b>1,994.4</b>	<b>63,103.7</b>	<b>0.0</b>	<b>219,220.0</b>	<b>86,800.5</b>	<b>3,011.1</b>	<b>0.0</b>	<b>89,811.6</b>	<b>129,408.4</b>
<b>Total</b>	<b>305,820.3</b>	<b>5,626.5</b>	<b>133,030.1</b>	<b>0.0</b>	<b>444,476.9</b>	<b>249,451.5</b>	<b>5,205.3</b>	<b>0.0</b>	<b>254,656.9</b>	<b>189,820.0</b>

**Q.**

Please provide the actual and projected Energy Conservation Cost Recovery Clause annual funds in nominal dollars for the period 2010 through 2024. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Year	ECCR Expenditures
2010	
2011	
2012	
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	
2021	
2022	
2023	
2024	

**A.**

Please see Attachment No. 1.



**Florida Power & Light Company**

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<b>Year</b>	<b>ECCR Expenditures</b>
2010	\$216,568,332
2011	\$228,293,640
2012	\$224,033,738
2013	\$244,296,253
2014	\$260,023,506
2015	\$192,391,764
2016	\$164,886,765
2017	\$167,548,155
2018	\$168,949,791
2019	\$170,427,603
2020	\$171,853,071
2021	\$173,419,246
2022	\$175,578,574
2023	\$178,059,046
2024	\$180,560,026

**Q.** Please provide the actual and projected monthly customer bill associated with the ECCR for a residential and commercial/industrial customer with the usage described in the table below, in nominal dollars. Please also provide the actual and projected total monthly customer bill. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Year	Residential Customer 1,200 kWh/mo		Commercial/Industrial Customer 400,000 kWh/mo & 1,000 kW Peak	
	ECCR Portion (\$)	Total Bill (\$)	ECCR Portion (\$)	Total Bill (\$)
2010				
2011				
2012				
2013				
2014				
2015				
2016				
2017				
2018				
2019				
2020				
2021				
2022				
2023				
2024				

**A.**

Please see Attachment No. 1. Please note that FPL's response contains confidential information, therefore it is being filed separately with a Notice of Intent to Request Confidential Classification.



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**Q.**

Do any of the programs in the company's DSM Plan include savings associated with Compact Fluorescent Lightbulbs? If so, please identify the baseline used.

**A.**

Only FPL's Business Lighting program includes a measure for Compact Fluorescent Lights (CFLs). The baseline for FPL's business CFL measure is a 53-watt halogen. Please note, to help ensure permanency of the demand and energy savings (i.e., that they will continue for the life of the measure), FPL only pays rebates for hardwired CFL fixtures, not screw-in bulbs.

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**Q.**

Please identify each program in the company's DSM Plan that include measures with an estimated 2 year or less payback period, and which measures are included by program.

**A.**

Only FPL's proposed Low Income program includes measures with an estimated payback of two years or less. The particular measures are faucet aerators, air-conditioning unit maintenance (refrigerant charging) and outdoor coil cleaning that are installed in detached single-family homes. (These measures are also available through the proposed Low Income program for installation in other types of residences, however they only fail a two-year payback screen in the detached single-family home application.) FPL has proposed including these types of measures to assist low income customers in response to the emphasis placed by the Commission on this customer segment in Order No. PSC-14-0696-FOF-EU.

**Q.**

For each program that includes measures with an estimated 2 year or less payback period, please provide the amount of savings (kWh, Win kW, and Sum kW) associated with these measures for each program and for the entire DSM Plan. As part of this response, please provide an electronic version of the table below in Excel format with your response.

[Program Name or DSM Plan Combined]						
Year	Program Savings from 2-Year Payback Measures (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015						
2016						
2017						
2018						
2019						
2020						
2021						
2022						
2023						
2024						

**A.**

Please see Attachment No. 1. The table reflects the savings impacts of the measures discussed in FPL's response Staff's First Data Request, No. 12.



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 Attachment No. 1  
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Residential Low Income						
Year	Program Savings from 2-Year Payback Measures (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015	288	0	0	576,331	20	246
2016	288	0	0	576,331	20	246
2017	288	0	0	576,331	20	246
2018	288	0	0	576,331	20	246
2019	288	0	0	576,331	20	246
2020	288	0	0	576,331	20	246
2021	288	0	0	576,331	20	246
2022	288	0	0	576,331	20	246
2023	288	0	0	576,331	20	246
2024	288	0	0	576,331	20	246

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**Q.**

Please describe the avoided unit used in the company's cost-effectiveness evaluations of the programs in its DSM Plan. Is the avoided unit the same as the one used in the goalsetting docket? If not, please explain why and the differences in avoided costs resulting from the change.

**A.**

The avoided unit used in FPL's program-level cost-effectiveness evaluations in the DSM Plan is a 1,269 MW 3x1 "J" Type Combined Cycle unit. This unit is the same avoided unit that was used in the measure-level cost-effectiveness screening in the DSM Goals docket. This unit represents FPL's projected next self-build unit at the time assumptions were frozen (approximately Oct. 2013) for analysis purposes for the DSM Goals docket.

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**Q.**

Please discuss whether any measure's demand and energy savings used in the company's cost-effectiveness evaluations of the programs in its DSM Plan differed from the one used in the goalsetting docket. If so, please explain why and the differences in demand and energy savings resulting from the change.

**A.**

FPL used the same assumptions in these cost-effectiveness screening tests as were used for the analyses in the DSM Goals proceeding (Docket No. 130199-EI).



**Q.**

Please provide the annual avoided cost savings associated with each of the following four scenarios for a measure that reduces energy or demand by: 1000 kWh, 1 kW Summer Demand, 1 kW Winter Demand, or 1 kW Summer and Winter Demand. Please provide the savings through the longest time period used to evaluate the programs in your DSM Plan. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Year	Savings by Measure Type							
	1000 kWh		1 kW Summer		1 kW Winter		1 kW Sum & Win	
	Nominal	Real	Nominal	Real	Nominal	Real	Nominal	Real
2015								
2016								
2017								
2018								
2019								
2020								
2021								
2022								
2023								
2024								

**A.**

Please see the Attachment No. 1.

FPL interprets these theoretical measures to provide the following demand and energy savings:

- a) A measure with 1000 kWh of energy savings and 0 kW demand savings for Summer and Winter;
- b) A measure with 0 kWh of energy savings, 1kW demand savings for Summer, and 0 kW demand savings for Winter;
- c) A measure with 0 kWh of energy savings, 0kW demand savings for Summer, and 1 kW demand savings for Winter; and
- d) A measure with 0 kWh of energy savings, 1kW demand savings for Summer, and 1 kW demand savings for Winter.

Please note that:

- 1) FPL interprets "real" dollars to be de-escalated to 2015\$ using the assumed escalation rate;  
and
- 2) These calculations only refer to the avoided cost savings for these theoretical measures. These numbers do not include projections for measure costs, unrecovered revenue requirements, or system rate impacts.

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Year	Savings by Measure Type							
	1000 kWh		1 kW Summer		1 kW Winter		1 kW Sum & Win	
	Nominal	Real (2015\$)	Nominal	Real (2015\$)	Nominal	Real (2015\$)	Nominal	Real (2015\$)
2015	23.62	23.62	0.00	0.00	0.00	0.00	0.00	0.00
2016	52.25	50.98	39.66	38.69	7.00	6.83	46.65	45.52
2017	45.34	43.15	38.66	36.80	6.82	6.49	45.49	43.29
2018	55.97	51.97	37.51	34.83	6.62	6.15	44.13	40.98
2019	57.12	51.75	231.79	209.99	40.90	37.06	272.69	247.05
2020	59.91	52.96	201.91	178.46	35.63	31.49	237.54	209.95
2021	59.95	51.70	194.91	168.07	34.40	29.66	229.31	197.73
2022	59.42	49.99	204.31	171.88	36.06	30.33	240.37	202.21
2023	59.43	48.78	207.70	170.47	36.65	30.08	244.35	200.55
2024	61.64	49.36	199.07	159.40	35.13	28.13	234.20	187.53
2025	63.43	49.55	200.97	157.00	35.46	27.71	236.43	184.70
2026	60.81	46.35	205.62	156.71	36.29	27.65	241.90	184.36
2027	63.80	47.44	196.24	145.92	34.63	25.75	230.87	171.67
2028	64.41	46.73	206.51	149.81	36.44	26.44	242.95	176.24
2029	66.61	47.14	195.26	138.19	34.46	24.39	229.72	162.58
2030	67.27	46.45	202.04	139.50	35.65	24.62	237.69	164.12
2031	69.72	46.97	196.65	132.47	34.70	23.38	231.35	155.85
2032	70.27	46.18	205.92	135.33	36.34	23.88	242.26	159.21
2033	73.92	47.40	196.00	125.67	34.59	22.18	230.59	147.85
2034	74.85	46.82	198.44	124.13	35.02	21.91	233.46	146.03
2035	76.32	46.57	199.54	121.78	35.21	21.49	234.76	143.27
2036	79.23	47.17	198.79	118.36	35.08	20.89	233.87	139.24
2037	81.52	47.35	195.43	113.52	34.49	20.03	229.92	133.55
2038	84.26	47.75	191.55	108.55	33.80	19.16	225.36	127.71
2039	86.17	47.64	198.03	109.48	34.95	19.32	232.97	128.80
2040	88.56	47.77	193.90	104.59	34.22	18.46	228.11	123.04
2041	91.95	48.39	193.74	101.95	34.19	17.99	227.93	119.95
2042	95.34	48.95	197.64	101.47	34.88	17.91	232.51	119.37
2043	98.32	49.25	195.90	98.12	34.57	17.32	230.47	115.44
2044	101.87	49.78	191.23	93.45	33.75	16.49	224.97	109.94
2045	105.51	50.30	195.44	93.18	34.49	16.44	229.93	109.62
2046	108.72	50.57	198.57	92.36	35.04	16.30	233.61	108.66
2047	112.12	50.88	196.12	88.99	34.61	15.70	230.73	104.70
2048	116.77	51.69	194.85	86.26	34.38	15.22	229.23	101.48
NPV (2014-2048)	755.60		1874.01		330.71		2204.71	

- Notes:
- 1) FPL interprets "real " dollars to be de-escalated to 2015 at the assumed escalation rate.
  - 2) These calculations only refer to the avoided cost savings in these theoretical measures. These numbers do not include projections for measure costs, unrecovered revenue requirements, or system rate impacts.



**Q.**

For each demand response program, use the table below to provide the information listed on an annual basis for customer participation. Please also provide a summary of all demand response programs using the chart below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

[All Demand Response Programs Combined or By Demand Response Program Name]									
Year	Average Number of Participants	Available Capacity (MW)		New Participants	Added Capacity (MW)		Participants Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		Sum	Win
2005									
2006									
2007									
2008									
2009									
2010									
2011									
2012									
2013									
2014									

**A.**

Please see Attachment No. 1. Note that Table 17B represents FPL's entire Residential Load Management program, i.e., includes both tariffs.

TABLE 17A - FPL Total Demand Response

Year	Average Number of Participants	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customers Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		Sum	Win
2005	737,206	1,503	1,358	11,154	28	21	4,413	6	5
2006	751,380	1,563	1,372	28,997	72	60	7,390	14	13
2007	772,195	1,667	1,423	30,547	105	92	10,523	14	13
2008	787,993	1,726	1,504	28,963	92	79	17,392	31	28
2009	800,045	1,793	1,557	21,134	77	67	8,601	13	12
2010	809,694	1,805	1,616	14,676	32	24	7,910	23	16
2011	817,032	1,821	1,625	11,267	27	20	3,357	15	12
2012	826,535	1,871	1,578	14,835	40	33	3,740	10	9
2013	839,773	1,866	1,427	16,476	28	20	1,095	9	6
2014	839,791	1,835	1,398	11,282	38	28	26,627	98	82

TABLE 17B - FPL Residential On Call Program

Year	Average Number of Participants	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customers Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		Sum	Win
2005	718,653	902	816	10,361	13	12	4,211	5	5
2006	732,062	928	823	27,964	35	32	7,297	9	8
2007	751,982	952	846	29,511	37	34	10,337	13	12
2008	767,188	966	868	28,247	35	32	17,010	21	19
2009	778,886	981	881	20,603	26	23	8,444	11	10
2010	788,378	990	895	13,366	17	15	6,540	8	7
2011	795,802	1,000	903	10,712	13	12	2,691	3	3
2012	805,015	1,043	856	13,910	18	15	3,505	4	4
2013	817,550	1,033	860	15,370	19	16	704	1	1
2014	817,479	1,010	826	10,395	22	21	25,204	54	51

TABLE 17C - FPL Business On Call Program

Year	Average Number of Participants	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customers Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		Sum	Win
2005	18,023	51	0	786	6	0	201	0	0
2006	18,761	58	0	975	9	0	84	0	0
2007	19,559	80	0	888	10	0	183	1	0
2008	20,034	84	0	617	9	0	371	1	0
2009	20,287	91	0	412	8	0	153	1	0
2010	20,381	93	0	1,282	6	0	1,353	6	0
2011	20,289	99	0	540	6	0	652	3	0
2012	20,571	99	0	899	5	0	224	1	0
2013	21,266	102	0	1,092	3	0	377	2	0
2014	21,393	103	0	871	5	0	1,332	6	0

TABLE 17D - FPL Commercial/Industrial Load Control Program (CILC)

Year	Average Number of Participants	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customers Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		Sum	Win
2005	498	516	517	0	0	0	1	0	0
2006	493	516	516	0	0	0	9	5	5
2007	487	515	516	0	0	0	3	1	1
2008	481	509	515	0	0	0	9	7	7
2009	475	510	509	0	0	0	3	2	2
2010	465	503	510	0	0	0	16	8	8
2011	455	500	503	0	0	0	5	5	5
2012	449	497	500	0	0	0	7	3	3
2013	441	493	418	0	0	0	8	4	4
2014	398	483	422	0	0	0	78	32	27

TABLE 17E - FPL Commercial/Industrial Demand Reduction Rider (CDR)

Year	Average Number of Participants	Available Capacity (MW)		New Customers Added	Added Capacity (MW)		Customers Lost	Lost Capacity (MW)	
		Sum	Win		Sum	Win		Sum	Win
2005	33	34	25	7	9	9	0	0	0
2006	65	61	34	58	28	28	0	0	0
2007	168	120	61	148	59	59	0	0	0
2008	291	167	120	99	47	47	2	2	2
2009	398	211	167	119	43	43	1	1	1
2010	471	219	211	28	9	9	1	1	1
2011	487	222	219	15	8	8	9	4	4
2012	501	232	222	26	18	18	4	2	2
2013	516	238	149	14	6	4	6	3	2
2014	522	239	150	16	11	7	13	6	4

**Q.**

For each demand response program, use the table below to provide the information listed on an annual basis in seasonal peak demand and number of participants. Please also provide a summary of all demand response programs using the chart below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

[All Demand Response Programs Combined or By Demand Response Program Name]										
Year	Summer					Winter				
	Number of Events	Average Event Size		Maximum Event Size		Number of Events	Average Event Size		Maximum Event Size	
		(MW)	(MW)	(Part.)	(MW)		(Part.)	(MW)	(MW)	(Part.)
2005										
2006										
2007										
2008										
2009										
2010										
2011										
2012										
2013										
2014										

**A.**

Please see Attachment No. 1. Note that Residential On Call and Business On Call are dispatched together as are Commercial/Industrial Load Control (CILC) and Commercial/Industrial Demand Reduction (CDR). Therefore, each pair is shown combined. In some instances all four were dispatched during the same event. In the majority of cases where Residential On Call was dispatched only water heaters and pool pumps were interrupted. Capacity values are at the generator.





**Q.**

For each demand response program, use the table below to provide the information listed on an annual basis for seasonal peak activations. Please also provide a summary of all demand response programs using the chart below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

[All Demand Response Programs Combined or By Demand Response Program Name]							
Year	Average Number of Participants	Summer Peak			Winter Peak		
		Activated During Peak?	# of Participants Activated	Capacity Activated	Activated During Peak?	# of Participants Activated	Capacity Activated
		(Y/N)	(MW)	(MW)	(Y/N)	(MW)	(MW)
2005							
2006							
2007							
2008							
2009							
2010							
2011							
2012							
2013							
2014							

**A.**

Please see Attachment No. 1. Please note that Residential On Call and Business On Call are dispatched together as are Commercial/Industrial Load Control (CILC) and Commercial/Industrial Demand Reduction (CDR). Therefore each pair is shown combined. Please note that the majority of the instances when load management is dispatched occur at times other than the single hours of winter or summer peak. Dispatch can occur whenever (and for whatever reasons) actual load exceeds available generation resources or for frequency regulation purposes at that point in time. Capacity values are at the generator.



**TABLE 19A - FPL Total Demand Response**

Year	Average Number of Customers	Summer Peak			Winter Peak		
		Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)
2005	737,206	N	0	0	N	0	0
2006	751,380	N	0	0	N	0	0
2007	772,195	N	0	0	N	0	0
2008	787,993	N	0	0	N	0	0
2009	800,045	N	0	0	N	0	0
2010	809,694	N	0	0	Y	930	721
2011	817,032	N	0	0	Y	941	722
2012	826,535	N	0	0	N	0	0
2013	839,773	N	0	0	N	0	0
2014	839,791	N	0	0	N	0	0

**TABLE 19B - FPL Residential On Call and FPL Business On Call Programs**

Year	Average Number of Customers	Summer Peak			Winter Peak		
		Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)
2005	736,676	N	0	0	N	0	0
2006	750,822	N	0	0	N	0	0
2007	771,541	N	0	0	N	0	0
2008	787,222	N	0	0	N	0	0
2009	799,172	N	0	0	N	0	0
2010	808,759	N	0	0	N	0	0
2011	816,091	N	0	0	N	0	0
2012	825,585	N	0	0	N	0	0
2013	838,816	N	0	0	N	0	0
2014	838,871	N	0	0	N	0	0

**TABLE 19C - FPL Commercial/Industrial Load Control (CILC) & Commercial/Industrial Demand Reduction (CDR)**

Year	Average Number of Customers	Summer Peak			Winter Peak		
		Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)	Activated During Peak? (Y/N)	Number of Customers Activated	Capacity Activated (MW)
2005	530	N	0	0	N	0	0
2006	558	N	0	0	N	0	0
2007	655	N	0	0	N	0	0
2008	771	N	0	0	N	0	0
2009	873	N	0	0	N	0	0
2010	936	N	0	0	Y	930	721
2011	942	N	0	0	Y	941	722
2012	950	N	0	0	N	0	0
2013	957	N	0	0	N	0	0
2014	920	N	0	0	N	0	0

**Q.**

For each demand response program, please describe whether the current credit is based upon the company's most recent avoided unit. If not, please explain why and provide how the credit was derived.

**A.**

The credits for all demand response programs are based on the current approved tariff sheets for Commercial/Industrial Demand Response (CDR), Business On-Call (BOC), and Residential Load Control. (Because the Residential On Call tariff is closed to new participants, the credits associated with that tariff were not used for purposes of the cost-effectiveness results presented for the Residential Load Management Program presented in Appendix A.)

For the CDR credit, the monthly incentive is based on the currently approved CDR credit shown in Tariff Sheet 8.680, \$7.89 per kW, for the time period of 2015 through June 2016. For the time period of July 2016 on, the monthly CDR incentive is increased to \$8.26 per kW to reflect the estimated incentive increase associated with the 2012 Rate Case Settlement.

For the BOC program, the average annual credit per kW per participant was used as the yearly incentive value for purposes of the cost-effectiveness analysis.

For the Residential Load Management Program, the annual weighted average of the per-appliance credit was used as the yearly incentive value for purposes of the cost-effectiveness analysis.



**Q.**

For each demand response program, please provide the credit amount that would reduce the value of the program's RIM Test to 1.0.

**A.**

Attachment No. 1 includes the credit amounts that would reduce the value of each demand response program's RIM test to 1.0. Please note that FPL considers a program to be cost-effective if it has a RIM result of at least 1.01 (not 1.0), so there is an additional column on the table showing the credit that would reduce the RIM value to 1.01.

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Measure Name	Yearly Incentive Per Customer to Make RIM Ratio 1.0	Yearly Incentive Per Customer to Make RIM Ratio 1.01
Residential On-Call	\$157.77	\$155.87
Business On-Call	\$128.64	\$127.20
Commercial/Industrial Demand Response	\$163.73	\$162.90

**Q.**

For each demand response program, please discuss whether the company considered reducing the credit provided to customers. As part of this response, please discuss the impacts a lower credit would have on existing participation levels.

**A.**

FPL did not contemplate reducing the credits in its demand response programs. All of FPL's open demand response programs are very cost-effective under the Rate Impact Measure (RIM) test, so no reductions are required. Further, the credit amounts for the Commercial/Industrial Load Control and Commercial/Industrial Demand Reduction programs were approved by the Commission as part of the settlement of FPL's last base rate case (Order No. PSC-13-0023-S-EI), that extend through the end of 2016.

FPL has proposed to migrate customers on FPL's closed Residential On Call tariff to the open Residential Load Control tariff. Although this represents a reduction of the credits that would be paid to some of the closed tariff participants, this isn't a credit reduction for the residential program per se because new participants are only able to receive credits from the open tariff to which FPL has not proposed any credit reductions.

Though there could be some existing participation loss from the residential closed tariff customers who are being transferred to the open tariff, FPL believes the program will maintain more than sufficient participation to meet its DSM Goals. Additionally, FPL has been able to recruit approximately 560,000 participants with the credit amounts of the open tariff. FPL does not have an assessment of the impact of lower credits on the existing participation for its open Residential Load Control tariff or its business demand response programs because lowering the credits was not contemplated.

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**Q.**

Please provide the number of participants currently participating in FPL's closed "Residential On Call Tariff."

**A.**

As of March 31, 2015, there were 250,725 participants in FPL's closed "Residential On Call Tariff" (representing approximately 30% of the more than 810,000 total Residential Load Management participants.)



**Q.**

FPL's tariff numbers 8.207 and 8.217 illustrate that there will be a financial impact to the remaining customers who are switched from the closed On Call Tariff to the Load Control Tariff. Specifically, those whose conventional electric water heater and central electric air conditioner credits would be reduced.

- a. How many customers in FPL's closed Residential On Call Tariff receive credits for a conventional electric water heater?
- b. How many customers in FPL's closed Residential On Call Tariff receive credits for central electric air conditioning?
- c. How many customers in FPL's closed Residential On Call Tariff receive credits for both a conventional electric water heater and central air conditioning?

**A.**

The following participant counts are as of March 31, 2015. For subparts (b) and (c), FPL interprets this request to refer to the air conditioning - cycle option, which has a different credit amount on the closed and open tariffs. (Please note that in addition to the requested participant counts shown below, 10,511 of the existing closed On Call tariff participants have selected end-use options where the credits are the same between the closed and open tariffs, e.g., air conditioning - shed, heating - both shed and cycle, and pool pumps.)

- a. 36,048
- b. 72,770
- c. 131,396

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**Q.**

Has FPL performed an analysis to determine whether or not the closed Residential On Call Tariff, in its current state, is still cost-effective? If not, please perform a cost-effectiveness analysis of the closed Residential On Call Tariff in its current state.

**A.**

Please see Attachment No. 1 for an analysis showing that the closed Residential On-Call Tariff is cost-effective in its current state. Please note that the change in the Residential On-Call tariff results in a savings to FPL's customers of approximately \$8.5 million.

INPUT DATA -- PART 1 CONTINUED  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Residential Load Management (On Call®)

I. PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER kW REDUCTION AT METER .....	1.12 kW
(2) GENERATOR kW REDUCTION PER CUSTOMER .....	1.46778 kW
(3) kW LINE LOSS PERCENTAGE .....	7.22 %
(4) GENERATOR kWh REDUCTION PER CUSTOMER .....	1.75 kWh ****
(5) kWh LINE LOSS PERCENTAGE .....	5.76 %
(6) GROUP LINE LOSS MULTIPLIER .....	1.00
(7) CUSTOMER kWh INCREASE AT METER .....	0.86 kWh ****

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM .....	35 YEARS
(2) GENERATOR ECONOMIC LIFE .....	30 YEARS
(3) T&D ECONOMIC LIFE .....	35 YEARS
(4) K FACTOR FOR GENERATION .....	1.58642
(5) K FACTOR FOR T & D .....	1.55920

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER .....	*** \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER .....	*** \$/CUST
(3) UTILITY COST ESCALATION RATE .....	*** %**
(4) CUSTOMER EQUIPMENT COST .....	*** \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE .....	*** %**
(6) CUSTOMER O & M COST .....	*** \$/CUST/YR
(7) CUSTOMER O & M COST ESCALATION RATE .....	*** %**
(8) INCREASED SUPPLY COSTS .....	*** \$/CUST/YR
(9) SUPPLY COSTS ESCALATION RATES .....	*** %**
(10) UTILITY DISCOUNT RATE .....	7.54 %
(11) UTILITY AFUDC RATE .....	6.50 %
(12) UTILITY NON RECURRING REBATE/INCENTIVE .....	*** \$/CUST
(13) UTILITY RECURRING REBATE/INCENTIVE .....	*** \$/CUST
(14) UTILITY REBATE/INCENTIVE ESCALATION RATE .....	*** %

IV. AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR .....	2014
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT .....	2019
(3) IN-SERVICE YEAR FOR AVOIDED T&D .....	2017-2019
(4) BASE YEAR AVOIDED GENERATING COST .....	776.33 \$/kW
(5) BASE YEAR AVOIDED TRANSMISSION COST .....	0.00 \$/kW
(6) BASE YEAR DISTRIBUTION COST .....	0.00 \$/kW
(7) GEN, TRAN & DIST COST ESCALATION RATE .....	3.00 %**
(8) GENERATOR FIXED O & M COST .....	58.35 \$/kW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE .....	2.50 %**
(10) TRANSMISSION FIXED O & M COST .....	0.00 \$/kW
(11) DISTRIBUTION FIXED O & M COST .....	0.00 \$/kW
(12) T&D FIXED O&M ESCALATION RATE .....	2.50 %**
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS .....	0.065 CENTS/kWh
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE .....	2.50 %**
(15) GENERATOR CAPACITY FACTOR .....	56% ** (In-service year)
(16) AVOIDED GENERATING UNIT FUEL COST .....	3.85 CENTS PER kWh** (In-service year)
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE .....	4.65 %**

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL .....	*** CENTS/kWh
(2) NON-FUEL COST ESCALATION RATE .....	*** %
(3) DEMAND CHARGE IN CUSTOMER BILL .....	*** \$/kW/MO
(4) DEMAND CHARGE ESCALATION RATE .....	*** %

\* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

\*\* VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)

\*\*\* PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

\*\*\*\* THIS IS A LOAD SHIFTING PROGRAM. VALUE SHOWN IN ITEM (4) IS ANNUAL KWH/CUST SHIFTED AWAY FROM PEAK HRS. VALUE SHOWN IN ITEM (7) IS ANNUAL KWH/CUST THAT IS PAID BACK DURING OFF-PEAK







Calculation of Gen K-Factor  
 Program Method Selected Rev\_Req  
 Program Name: Residential Load Management (On Call®)

Year	(2) BEG-YEAR RATE BASE \$(000)	(3) DEBT \$(000)	(4) PREFERRED STOCK \$(000)	(5) COMMON EQUITY \$(000)	(6) INCOME TAXES \$(000)	(7) PROPERTY TAX \$(000)	(8) PROPERTY INSURANCE \$(000)	(9) DEPREC. \$(000)	(10) DEFERRED TAXES \$(000)	(11) TOTAL FIXED CHARGES \$(000)	(12) PRESENT WORTH FIXED CHARGES \$(000)	(13) CUMULATIVE PW FIXED CHARGES \$(000)	(14) REPLACEMENT COST BASIS FOR PROPERTY INSURANCE \$(000)
2019	66,070	1,372	0	4,136	2,536	1,146	35	2,172	134	11,530	11,530	11,530	65,155
2020	63,764	1,324	0	3,992	1,587	1,107	35	2,172	991	11,208	10,423	21,953	66,784
2021	60,601	1,258	0	3,794	1,597	1,067	36	2,172	857	10,782	9,324	31,276	68,454
2022	57,572	1,195	0	3,604	1,601	1,028	37	2,172	734	10,371	8,340	39,617	70,165
2023	54,666	1,135	0	3,422	1,602	988	38	2,172	619	9,976	7,460	47,077	71,919
2024	51,875	1,077	0	3,247	1,598	949	39	2,172	513	9,595	6,673	53,750	73,717
2025	49,190	1,021	0	3,079	1,591	909	40	2,172	415	9,227	5,967	59,717	75,560
2026	46,604	968	0	2,917	1,580	870	41	2,172	324	8,872	5,335	65,052	77,449
2027	44,108	916	0	2,761	1,496	830	42	2,172	310	8,527	4,768	69,821	79,385
2028	41,626	864	0	2,606	1,399	791	43	2,172	309	8,184	4,256	74,077	81,370
2029	39,145	813	0	2,451	1,301	751	44	2,172	310	7,841	3,792	77,869	83,404
2030	36,664	761	0	2,295	1,204	711	45	2,172	309	7,498	3,372	81,241	85,489
2031	34,182	710	0	2,140	1,106	672	46	2,172	310	7,156	2,992	84,234	87,627
2032	31,701	658	0	1,985	1,009	632	48	2,172	309	6,813	2,649	86,883	89,817
2033	29,220	607	0	1,829	911	593	49	2,172	310	6,470	2,340	89,223	92,063
2034	26,739	555	0	1,674	814	553	50	2,172	309	6,127	2,061	91,284	94,364
2035	24,257	504	0	1,519	716	514	51	2,172	310	5,785	1,809	93,093	96,723
2036	21,776	452	0	1,363	619	474	53	2,172	309	5,442	1,583	94,675	99,142
2037	19,295	401	0	1,208	521	435	54	2,172	310	5,099	1,379	96,054	101,620
2038	16,813	349	0	1,053	423	395	55	2,172	309	4,757	1,196	97,251	104,161
2039	14,332	298	0	897	877	356	57	2,172	(242)	4,414	1,032	98,283	106,765
2040	12,403	258	0	776	1,353	316	58	2,172	(794)	4,139	900	99,183	109,434
2041	11,024	229	0	690	1,299	277	59	2,172	(794)	3,932	795	99,979	112,170
2042	9,646	200	0	604	1,245	237	61	2,172	(794)	3,725	701	100,679	114,974
2043	8,268	172	0	518	1,191	198	62	2,172	(794)	3,518	615	101,295	117,848
2044	6,890	143	0	431	1,136	158	64	2,172	(794)	3,311	539	101,833	120,794
2045	5,512	114	0	345	1,082	119	66	2,172	(794)	3,104	469	102,303	123,814
2046	4,134	86	0	259	1,028	79	67	2,172	(794)	2,897	407	102,710	126,910
2047	2,756	57	0	172	974	40	69	2,172	(794)	2,690	352	103,062	130,082
2048	1,377	29	0	86	920	(0)	71	2,172	(794)	2,483	302	103,364	133,334

IN SERVICE COST (\$000)	65,155
IN SERVICE YEAR	2019
BOOK LIFE (YRS)	30
EFFEC. TAX RATE	38.575
DISCOUNT RATE	7.5%
PROPERTY TAX	1.82%
PROPERTY INSURANCE	0.05%

CAPITAL STRUCTURE

SOURCE	WEIGHT	COST	
DEBT	40%	5.14	%
P/S	0%	0.00	%
C/S	60%	10.50	%

K-FACTOR = CPWFC / IN-SVC COST = 1.58642

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Residential Load Management (On Call®)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	ACCUMULATED TAX DEPRECIATION \$(000)	BOOK DEPRECIATION \$(000)	ACCUMULATED BOOK DEPRECIATION \$(000)	BOOK DEPRECIATION FOR DEFERRED TAX \$(000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX \$(000)	DEFERRED TAX DUE TO DEPRECIATION \$(000)	TOTAL EQUITY AFUDC \$(000)	BOOK DEPR RATE MINUS 1/LIFE	(10)*(11) TAX RATE \$(000)	SALVAGE TAX RATE \$(000)	ANNUAL DEFERRED TAX (9)-(12)+(13) \$(000)	ACCUMULATED DEFERRED TAX \$(000)
2019	3.75%	2,404	2,404	2,172	2,172	2,058	2,058	134	3,429	0	0	0	134	(781)
2020	7.22%	4,627	7,031	2,172	4,344	2,058	4,115	991	3,429	0	0	0	991	210
2021	6.68%	4,280	11,311	2,172	6,516	2,058	6,173	857	3,429	0	0	0	857	1,068
2022	6.18%	3,961	15,272	2,172	8,687	2,058	8,230	734	3,429	0	0	0	734	1,802
2023	5.71%	3,662	18,934	2,172	10,859	2,058	10,288	619	3,429	0	0	0	619	2,421
2024	5.29%	3,388	22,321	2,172	13,031	2,058	12,345	513	3,429	0	0	0	513	2,934
2025	4.89%	3,133	25,454	2,172	15,203	2,058	14,403	415	3,429	0	0	0	415	3,349
2026	4.52%	2,898	28,353	2,172	17,375	2,058	16,460	324	3,429	0	0	0	324	3,673
2027	4.46%	2,860	31,213	2,172	19,547	2,058	18,518	310	3,429	0	0	0	310	3,983
2028	4.46%	2,859	34,072	2,172	21,718	2,058	20,576	309	3,429	0	0	0	309	4,292
2029	4.46%	2,860	36,932	2,172	23,890	2,058	22,633	310	3,429	0	0	0	310	4,601
2030	4.46%	2,859	39,791	2,172	26,062	2,058	24,691	309	3,429	0	0	0	309	4,911
2031	4.46%	2,860	42,651	2,172	28,234	2,058	26,748	310	3,429	0	0	0	310	5,220
2032	4.46%	2,859	45,511	2,172	30,406	2,058	28,806	309	3,429	0	0	0	309	5,530
2033	4.46%	2,860	48,371	2,172	32,578	2,058	30,863	310	3,429	0	0	0	310	5,839
2034	4.46%	2,859	51,230	2,172	34,750	2,058	32,921	309	3,429	0	0	0	309	6,148
2035	4.46%	2,860	54,090	2,172	36,921	2,058	34,978	310	3,429	0	0	0	310	6,458
2036	4.46%	2,859	56,950	2,172	39,093	2,058	37,036	309	3,429	0	0	0	309	6,767
2037	4.46%	2,860	59,810	2,172	41,265	2,058	39,093	310	3,429	0	0	0	310	7,077
2038	4.46%	2,859	62,669	2,172	43,437	2,058	41,151	309	3,429	0	0	0	309	7,386
2039	2.23%	1,430	64,099	2,172	45,609	2,058	43,209	(242)	3,429	0	0	0	(242)	7,144
2040	0.00%	0	64,099	2,172	47,781	2,058	45,266	(794)	3,429	0	0	0	(794)	6,350
2041	0.00%	0	64,099	2,172	49,952	2,058	47,324	(794)	3,429	0	0	0	(794)	5,557
2042	0.00%	0	64,099	2,172	52,124	2,058	49,381	(794)	3,429	0	0	0	(794)	4,763
2043	0.00%	0	64,099	2,172	54,296	2,058	51,439	(794)	3,429	0	0	0	(794)	3,969
2044	0.00%	0	64,099	2,172	56,468	2,058	53,496	(794)	3,429	0	0	0	(794)	3,176
2045	0.00%	0	64,099	2,172	58,640	2,058	55,554	(794)	3,429	0	0	0	(794)	2,382
2046	0.00%	0	64,099	2,172	60,812	2,058	57,611	(794)	3,429	0	0	0	(794)	1,588
2047	0.00%	0	64,099	2,172	62,983	2,058	59,669	(794)	3,429	0	0	0	(794)	794
2048	0.00%	0	64,099	2,172	65,155	2,058	61,727	(794)	3,429	0	0	0	(794)	1

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2048
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	(914)
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	3,429
BOOK DEPR RATE - 1/USEFUL LIFE	3.33%

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Residential Load Management (On Call®)

(1)	(2)	(3)	(4)	(5)	(5a)*	(5b)*	(6)	(7)	(8)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION \$(000)	DEFERRED TAX \$(000)	END OF YEAR NET PLANT IN SERVICE \$(000)	ACCUMULATED DEPRECIATION \$(000)	ACCUMULATED DEF TAXES \$(000)	BEGINNING YEAR RATE BASE \$(000)	ENDING OF YEAR RATE BASE \$(000)	MID-YEAR RATE BASE \$(000)
2019	3.75%	2,404	134	62,983	2,172	(781)	66,070	63,764	64,917
2020	7.22%	4,627	991	60,812	4,344	210	63,764	60,601	62,183
2021	6.68%	4,280	857	58,640	6,516	1,068	60,601	57,572	59,087
2022	6.18%	3,961	734	56,468	8,687	1,802	57,572	54,666	56,119
2023	5.71%	3,662	619	54,296	10,859	2,421	54,666	51,875	53,271
2024	5.29%	3,388	513	52,124	13,031	2,934	51,875	49,190	50,533
2025	4.89%	3,133	415	49,952	15,203	3,349	49,190	46,604	47,897
2026	4.52%	2,898	324	47,781	17,375	3,673	46,604	44,108	45,356
2027	4.46%	2,860	310	45,609	19,547	3,983	44,108	41,626	42,867
2028	4.46%	2,859	309	43,437	21,718	4,292	41,626	39,145	40,386
2029	4.46%	2,860	310	41,265	23,890	4,601	39,145	36,664	37,904
2030	4.46%	2,859	309	39,093	26,062	4,911	36,664	34,182	35,423
2031	4.46%	2,860	310	36,921	28,234	5,220	34,182	31,701	32,942
2032	4.46%	2,859	309	34,750	30,406	5,530	31,701	29,220	30,460
2033	4.46%	2,860	310	32,578	32,578	5,839	29,220	26,739	27,979
2034	4.46%	2,859	309	30,406	34,750	6,148	26,739	24,257	25,498
2035	4.46%	2,860	310	28,234	36,921	6,458	24,257	21,776	23,017
2036	4.46%	2,859	309	26,062	39,093	6,767	21,776	19,295	20,535
2037	4.46%	2,860	310	23,890	41,265	7,077	19,295	16,813	18,054
2038	4.46%	2,859	309	21,718	43,437	7,386	16,813	14,332	15,573
2039	2.23%	1,430	(242)	19,547	45,609	7,144	14,332	12,403	13,367
2040	0.00%	0	(794)	17,375	47,781	6,350	12,403	11,024	11,713
2041	0.00%	0	(794)	15,203	49,952	5,557	11,024	9,646	10,335
2042	0.00%	0	(794)	13,031	52,124	4,763	9,646	8,268	8,957
2043	0.00%	0	(794)	10,859	54,296	3,969	8,268	6,890	7,579
2044	0.00%	0	(794)	8,687	56,468	3,176	6,890	5,512	6,201
2045	0.00%	0	(794)	6,516	58,640	2,382	5,512	4,134	4,823
2046	0.00%	0	(794)	4,344	60,812	1,588	4,134	2,756	3,445
2047	0.00%	0	(794)	2,172	62,983	794	2,756	1,377	2,066
2048	0.00%	0	(794)	(0)	65,155	1	1,377	-1	688

\* Column not specified in workbook



(1) YEAR	(2) NO. YEARS BEFORE IN-SERVICE	(3) PLANT ESCALATION RATE	(4) CUMULATIVE ESCALATION FACTOR	(5) YEARLY EXPENDITURE (%)	(6) ANNUAL SPENDING (\$/kW)	(7) CUMULATIVE AVERAGE SPENDING (\$/kW)
2014	-5	0.00%	1.000	0.11%	0.83	0.41
2015	-4	3.00%	1.030	0.28%	2.26	1.96
2016	-3	3.00%	1.061	8.69%	71.58	38.88
2017	-2	3.00%	1.093	53.83%	456.61	302.97
2018	-1	3.00%	1.126	37.09%	324.11	693.33

100.00%      855.39

YEAR	(8) NO. YEARS BEFORE IN-SERVICE	(8) CUMULATIVE SPENDING WITH AFUDC (\$/kW)	(8a)* DEBT AFUDC (\$/kW)	(8b)* CUMULATIVE DEBT AFUDC (\$/kW)	(9) YEARLY TOTAL AFUDC (\$/kW)	(9a)* CUMULATIVE TOTAL AFUDC (\$/kW)	(9b)* CONSTRUCTION PERIOD INTEREST (\$/kW)	(9c)* CUMULATIVE CPI (\$/kW)	(9d)* DEFERRED TAXES (\$/kW)	(9e)* CUMULATIVE DEFERRED TAXES (\$/kW)	(10) INCREMENTAL YEAR-END BOOK VALUE (\$/kW)	(11) CUMULATIVE YEAR-END BOOK VALUE (\$/kW)
2014	-5	0.41	0.01	0.01	0.03	0.03	0.02	0.02	(0.00)	(0.00)	0.86	0.86
2015	-4	1.99	0.04	0.05	0.13	0.16	0.10	0.12	(0.02)	(0.03)	2.39	3.24
2016	-3	39.03	0.76	0.81	2.54	2.70	2.01	2.13	(0.48)	(0.51)	74.12	77.36
2017	-2	305.67	5.95	6.76	19.90	22.60	15.69	17.82	(3.76)	(4.27)	476.51	553.87
2018	-1	715.93	13.99	20.74	46.81	69.41	36.57	54.39	(8.71)	(12.98)	370.93	924.80

20.74

69.41

54.39

(12.98)

924.80

IN SERVICE YEAR	2019
PLANT COSTS	776,326,284.5
AFUDC RATE	6.50%

	BOOK BASIS	BOOK BASIS FOR DEF TAX	TAX BASIS
CONSTRUCTION CASH	60,265	60,265	60,265
EQUITY AFUDC	3,429		
DEBT AFUDC	1,461	1,461	
CPI			3,832
<b>TOTAL</b>	<b>65,155</b>	<b>61,727</b>	<b>64,097</b>

\* Column not specified in workbook

INPUT DATA - PART 2  
 PROGRAM METHOD SELECTED : REV\_REQ  
 PROGRAM NAME: Residential Load Management (On Call®)

(1)	(2)	(3)	(4)	(5)	(6)*	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COST (C/kWh)	AVOIDED MARGINAL FUEL COST (C/kWh)	INCREASED MARGINAL FUEL COST (C/kWh)	REPLACEMENT FUEL COST (C/kWh)	PROGRAM kW EFFECTIVENESS FACTOR	PROGRAM kWh EFFECTIVENESS FACTOR
2014	0	0	3.60	7.12	3.60	0.00	1.00	1.00
2015	12,000	12,000	4.45	8.42	4.45	0.00	1.00	1.00
2016	24,000	24,000	4.92	12.24	4.92	0.00	1.00	1.00
2017	36,000	36,000	4.27	10.29	4.27	0.00	1.00	1.00
2018	48,000	48,000	5.27	11.75	5.27	0.00	1.00	1.00
2019	48,000	48,000	5.38	16.61	5.38	5.05	1.00	1.00
2020	48,000	48,000	5.65	19.65	5.65	5.04	1.00	1.00
2021	48,000	48,000	5.65	18.15	5.65	5.12	1.00	1.00
2022	48,000	48,000	5.60	15.84	5.60	5.09	1.00	1.00
2023	48,000	48,000	5.60	14.15	5.60	5.20	1.00	1.00
2024	48,000	48,000	5.81	14.12	5.81	5.51	1.00	1.00
2025	48,000	48,000	5.98	17.69	5.98	5.65	1.00	1.00
2026	48,000	48,000	5.73	19.09	5.73	5.77	1.00	1.00
2027	48,000	48,000	6.01	16.85	6.01	6.08	1.00	1.00
2028	48,000	48,000	6.07	17.17	6.07	6.19	1.00	1.00
2029	48,000	48,000	6.28	13.07	6.28	6.49	1.00	1.00
2030	48,000	48,000	6.34	14.76	6.34	6.45	1.00	1.00
2031	48,000	48,000	6.57	17.01	6.57	6.72	1.00	1.00
2032	48,000	48,000	6.62	15.42	6.62	6.76	1.00	1.00
2033	48,000	48,000	6.97	16.02	6.97	7.11	1.00	1.00
2034	48,000	48,000	7.05	13.20	7.05	7.29	1.00	1.00
2035	48,000	48,000	7.19	11.99	7.19	7.50	1.00	1.00
2036	48,000	48,000	7.47	17.33	7.47	7.70	1.00	1.00
2037	48,000	48,000	7.68	17.92	7.68	8.02	1.00	1.00
2038	48,000	48,000	7.94	16.32	7.94	8.33	1.00	1.00
2039	48,000	48,000	8.12	13.64	8.12	8.53	1.00	1.00
2040	48,000	48,000	8.35	14.31	8.35	8.87	1.00	1.00
2041	48,000	48,000	8.67	15.52	8.67	9.13	1.00	1.00
2042	48,000	48,000	8.99	18.22	8.99	9.47	1.00	1.00
2043	48,000	48,000	9.27	16.85	9.27	9.80	1.00	1.00
2044	48,000	48,000	9.60	18.50	9.60	10.25	1.00	1.00
2045	48,000	48,000	9.94	16.83	9.94	10.58	1.00	1.00
2046	48,000	48,000	10.25	13.72	10.25	10.92	1.00	1.00
2047	48,000	48,000	10.57	14.20	10.57	11.29	1.00	1.00
2048	48,000	48,000	11.00	18.99	11.00	11.78	1.00	1.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0.00	0.00	0.00	0.00	0.00	0.00

\* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.  
 THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.















Florida Power & Light Company  
Docket No. 150085-EG  
Staff's First Data Request  
Request No. 26  
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**Q.**

Please provide the number of participants currently participating in FPL's Load Control Tariff.

**A.**

As of March 31, 2015, there were 559,305 participants in FPL's open Load Control tariff (representing approximately 70% of the more than 810,000 total Residential Load Management participants).



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Staff's First Data Request  
Request No. 27  
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**Q.**

If granted by the Commission, how would FPL inform its customers participating in FPL's closed Residential On Call Tariff of a pending switch to FPL's Load Control Tariff?

**A.**

Once Commission approval of the change is final, FPL will inform by letter all customers on the closed Residential On Call Tariff. Those customers whose credits will be impacted (i.e., those who have selected the air conditioning – cycling or water heater options) will be notified of the credit changes. The letter will be sent to each Residential On Call customer's registered mail address at least 30 days in advance of the date when the newly-approved credit will be reflected on the customer's bill. In addition, FPL will ensure that its Care Center personnel are provided with the necessary information to respond to any follow-up questions customers may have.

**Q.**

What procedures does FPL have in place to notify customers participating in the closed On Call Tariff that they could be shifted into the Load Control Tariff?

**A.**

Please see FPL's response to Staff's First Data Request, No. 27. Please note that if the Commission approves the requested Residential On Call Tariff cancellation, every customer on that tariff will be automatically transferred to the open Load Control Tariff. As discussed in FPL's response to Staff's First Data Request, No. 24, affected customers will experience varying impacts to their monthly credits depending on which end-use option(s) they've selected and certain customers will see no credit impact. However, in no case will any customers remain on the cancelled Residential On Call Tariff. FPL does not plan to provide notice of any potential changes to the affected customers prior to the Commission's approval.

**Q.**

What procedures does FPL have in place to address the possibility of a customer not wishing to be shifted into the Load Control Tariff?

**A.**

As discussed in FPL's response to Staff's First Data Request, No. 28, if the Commission grants FPL's request to cancel the Residential On Call Tariff, customers will not have the option to remain on the cancelled tariff. If, once notified of the change, an affected participant does not wish to continue participating in FPL's Residential Load Management program under the open Load Control tariff, that customer can, without penalty, choose to discontinue his or her participation.

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**Q.**

Would there be any penalties assessed to a customer who chose not to be shifted from the closed On Call Tariff to the Load Control Tariff?

**A.**

No. If a participant does not wish to continue participation they can just request to cease participating in FPL's Residential Load Management program. Please also see FPL's response to Staff's First Data Request, No. 29.

**Q.**

Would there be any administrative cost savings associated with shifting the customers in FPL's closed On Call Tariff to its current Load Control Tariff? If so, please describe the type of cost savings and provide an estimate of annual savings.

**A.**

FPL expects an approximate \$8.3 million annual cost savings due to lower bill credits being provided to certain closed tariff participants who are transferred to the open tariff (not all participants in the closed tariff will be affected). FPL expects some comparatively small administrative savings from reduced system and reporting requirements related to the additional (duplicative) option codes associated with the closed tariff.



**Q.**

Participation in some programs (such as Residential Energy Survey and Residential On call) are held constant, while other programs (such as Residential Ceiling Insulation) have annually increasing participation rates.

- a. Please explain the variation and how it would be accomplished by the company.
- b. Please discuss the methodology used to estimate expected participation for each program proposed by the company.

**A.**

- a. The participation for programs which provide demand and energy savings represent FPL's maximum Rate Impact Measure (RIM) Achievable Potential from the DSM Goals docket (Docket No. 130199-EI). Please note that FPL does not attribute any demand or energy savings to its Residential Energy Survey or Business Energy Evaluation. In those programs where participation increases year over year, the changes essentially reflect projected increases in customer growth which creates incremental increases in the available eligible market. Because FPL has offered all the proposed programs for many years, the future market penetration rates for each are expected to be relatively stable, though at a higher or lower level than in the past depending on the new rebate levels.
- b. Please see FPL's response to subpart (a) of this Data Request. The projected participation (i.e., the Achievable Potential) was developed using quantitative and qualitative information and FPL's market experience incorporating several factors including: customer growth; rebate levels; participant's years-to-payback; historical adoption rates; payback acceptance curves; projected changes in market conditions; impacts on program delivery channels; market penetration, etc. These were used to establish the expected participation for 2015. For 2016-2024, FPL used a ramp up (escalation) rate from the 2015 participation value. For certain programs (e.g., residential and business Load Management), the escalation rate is projected to be zero because other market factors are expected to result in participation remaining stable over the Goals period. For FPL's Commercial/Industrial Demand Reduction program, the Environmental Protection Agency's Reciprocating Internal Combustion Engine / National Emissions Standard for Hazardous Air Pollutants (RICE/NESHAP) Rule change which requires more stringent emissions controls on customers who use generators to participate in load management programs is expected to continue to constrain participation. Participation in the Residential Load Management, Business On Call, Residential Energy Survey, and the Business Energy Evaluation programs were not escalated because participation has not historically been driven by customer growth. The Residential Low Income participation is also not driven by customer growth; rather it is a function of the participation volume the two delivery channels are able to provide.

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**Q.**

Please compare the projected participation rates of continuing programs with the actual participation rates for the previous ten years (or less, depending upon the start date of the program).

**A.**

Please see Attachment No. 1.



**Q.**

Please provide the following information regarding the Company's current and proposed Conservation Research and Development program:

- a. Provide any information/documentation regarding any planned areas of research under the proposed program.
- b. Provide any information/documentation regarding how the Company plans to implement any proposed or future projects.

**A.**

- a. The Conservation Research and Development (CRD) program identifies and scientifically evaluates the energy and demand savings and customer economic performance under FPL's climate conditions of emerging energy efficiency and demand response technologies and practices. Please see FPL's response to Staff's First Data Request, No. 35 for the detailed descriptions of FPL's current projects (please note that projects for 2016 and beyond have not yet been identified). This year's projects focus on evaluating technologies related to heating, ventilation, and air conditioning (HVAC), building envelope, efficient appliances, lighting, controls, and demand response. CRD focuses on FPL-specific analysis with the overall objectives to provide : (1) accurate assessments of cost-effectiveness and applicability for possible inclusion in a future DSM Plan; and (2) an authoritative source of accurate information to respond to our customers' energy technology questions.
- b. FPL's CRD projects are conducted in both laboratory and field settings. FPL focuses its efforts on technologies or practices that could reasonably be expected to be relevant to our customers' energy use. CRD projects are implemented using two basic approaches. The first is joining and leveraging publically-sponsored or third-party funded initiatives. By collaborating in a co-funded initiative (such as is currently being done with the U.S. Department of Energy), FPL is able to maximize the use of its research funds. The second approach is sponsoring research in partnership with Florida-based universities and/or independent research organizations. These projects are selected through a bidding process based on factors such as the proposed experimental method, proposal quality, the relevant expertise and experience of the particular researchers, and the overall value per budget dollar. Please also see FPL's response to Staff's First Data Request, No. 38 regarding timing of selection for future projects.

Please note that responsive documents contain confidential information (i.e., Requests for Proposals, contractual data, etc.), therefore they are being filed separately with a Notice of Intent to Request Confidential Classification.

**Q.**

What projects are currently being evaluated under the Company's Conservation Research and Development program? As part of your response, please provide the following: name and description of the project, initial startup date of the project, and year-to-date dollars spent on each project. Additionally, please provide whether or not the company believes said project(s) could result in a potential conservation program. If the company perceives a program is imminent, please provide expected startup date.

Conservation Research and Development			
Project Name	Description	Implementation Date	Expenditures

**A.**

Please see Attachment No. 1. At this time, it has not been determined whether any of these projects will ultimately be incorporated into FPL's DSM portfolio in the future. FPL will not be able to make such a determination until all ongoing research and testing to assess the technical, economic and market feasibility is completed.



Conservation Research and Development			
Project Name	Description	Implementation Date <sup>1</sup>	Expenditures <sup>2</sup>
Deep Retrofit of Existing Homes (Building America Project - Phase II)	This is a continuation of the Building America project FPL is co-funding with the U.S. Department of Energy (DOE) in order to quantify and contrast the demand and energy savings paybacks associated with "light" and "deep" energy efficiency retrofit measures for existing homes in Florida's climate. The study should assist customers in ranking the priority order of energy efficiency upgrades for their homes. 60 homes received light retrofits such as efficient lighting, water heater tank insulation and shortened pool pump operating schedules. Ten homes received deep retrofits such as seasonal energy efficiency ratio (SEER) 16 high efficiency HVAC units, heat pump water heaters and targeted upgrades to Energy Star® appliances. End-use metering and statistical analysis will be used to estimate the impacts. Analysis of Phase I was completed in 2014. For Phase II, additional deep retrofit technologies were installed in a subset of the 60 homes. These retrofits include: learning thermostats (25 homes); ultra-high efficiency mini-split ductless air conditioners (11 homes); ducting of cool air from heat pump water heaters (8 homes); super-efficient Energy Star clothes washers and dryers (8 homes); variable-speed pool pumps (5 homes); and high efficiency windows and exterior wall insulation (2 homes). The monitoring and analysis will complete later this year with a final report available by year end.	10/2014	\$34,968
Commercial Rooftop HVAC Retrofit with Variable Speed Air Handler Fan	A 60-ton HVAC unit on a host supermarket location in Miami has been retrofitted with the Enerfit controller. Based on real-time feedback from multiple temperature and pressure sensors, the Enerfit slows down the air handler fan whenever maximum cooling capacity is not needed (essentially turning the existing fan motor into a variable speed drive) which could save energy and increase dehumidification. For one full year the controller will alternate every two weeks between control and bypass mode to gather data across the full range of weather conditions. Statistical regression and weather data for a typical meteorological year will be used to estimate any annual energy savings and peak hour demand reduction.	7/2014	\$2,898
Residential Smart Thermostats – Small Scale Tests and Larger Trial	FPL is testing various smart thermostat technologies. In 2012 through 2014, FPL conducted small-scale tests of purely algorithm-based devices. The purpose of these limited tests was to gather directional data to determine if these types of technologies might produce energy savings (and, if so, how much) and whether it could be beneficial to perform subsequent broader testing. In addition, FPL has also been conducting a larger trial of non-algorithm-based devices to assess the technical feasibility, customer acceptance and demand and energy impacts of broadband-connected thermostats which can be accessed and controlled via customer-owned mobile devices (i.e., smartphones and tablets). In 2013, FPL installed equipment in the homes of 180 volunteer participants. These participants agreed to allow FPL to perform load control tests using the thermostats during the trial period which will provide data on equipment capabilities and customers' responses to such events (including whether they opt out). The trial period was completed at the end of 2014 and analysis of the results will be compiled later this year.	6/2013	\$56,273
SmartGrid Enabled Load Management Hardware Testing	FPL is conducting lab testing of emerging demand response switches that manufacturers claim can effectively communicate over FPL's SmartGrid network which would represent a potential alternate communications pathway to residential customers for demand response. Manufacturers claim their switches can use FPL's network and also potentially provide additional features for monitoring and controlling loads. The purpose of this testing is to determine the true readiness of these technologies.	10/2014	\$35,882

<sup>1</sup> Represents initial startup date

<sup>2</sup> Expenditures through March 31, 2015

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**Q.**

What current programs has the company offered to its customers as a result of the Conservation Research and Development program? In addition to the name of the program, please provide the description, startup date and year-to-date expenditures for each program.

**A.**

Please see Attachment No. 1. Please note that these CRD projects have been incorporated into FPL's DSM portfolio as either stand-alone programs (e.g., Business On Call) or as measures within existing DSM programs (e.g., Energy Recovery Ventilator which is a measure in FPL's Business Heating, Ventilating & Air Conditioning program.)

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Project Name	Description	Startup Date <sup>1</sup>	Year-to-Date Expenditures <sup>2</sup>
Business On Call (Load Management)	This program allows FPL to turn off customers' direct expansion ("DX") central electric air conditioning units for varying time periods during system emergencies, consistent with the applicable tariff. FPL-installed equipment is connected to the customer's DX units allowing FPL to control this load	6/1995	\$56,020
Business Reflective Roof	This is a measure within the current Business Building Envelope Program which encourages the installation of reflective white roofs to reduce HVAC load	6/2001	\$1,048,101
Duct Plenum Repair	This is a measure within the current Residential Air Conditioning Program which encourages repair of damaged duct connections when a new air conditioning unit is installed	4/2005	\$328,380
Energy Recovery Ventilation (ERV)	This is a measure within the Business HVAC Program which encourages installation of ERVs. ERVs reclaim energy from building exhaust air to pre-condition incoming fresh air which reduces the HVAC load.	4/2005	\$16,472
Demand Control Ventilation (DCV)	This is a measure within the Business HVAC Program which encourages installation of DCVs. DCVs use electronic controls and variable speed drives to vary the amount of fresh air coming into a building according to the real time ventilation requirements which reduces the HVAC load.	9/2006	\$31,751
Kitchen Exhaust Controllers	This is a measure within the Business HVAC Program which encourages applying DCV controls to automatically reduce the amount of exhaust and fresh makeup air in commercial kitchens when no more heat, steam, or smoke is present after cooking has stopped	1/2008	Included within DCV above

<sup>1</sup> Represents date when the project was originally approved for inclusion in FPL's DSM portfolio

<sup>2</sup> Expenditures through March 31, 2015

**Q.**

Please provide the amount spent on Conservation Research and Development programs for each of the past five years. Please provide the corresponding project name, implementation date, and dollar amount for each project.

**A.**

Please see Attachment No. 1.



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Conservation Research and Development							
Project	2010	2011	2012	2013	2014	Total	Completion Date <sup>1</sup>
Hotel Occupancy Sensors	\$32,227					\$32,227	5/2010
Efficient Pool Pumps	\$42,205	\$9,586				\$51,790	11/2010
Advanced Skylights	\$102,177					\$102,177	12/2010
Commercial Hybrid Desiccant Dehumidification	\$115,667					\$115,667	12/2010
Residential SEER 21 Variable Capacity Heat Pump HVAC	\$21,420					\$21,420	12/2010
Electric Power Research Institute (EPRI) Efficient Technology Collaborative	\$244,186	\$243,063	\$270,472			\$757,721	12/2012
Integrated Heat Pump Water Heaters (HPWH)			\$43,859	\$8,904		\$52,764	9/2013
Super High Efficiency Air Conditioning Study Phase III				\$62,329		\$62,329	12/2013
Condenser Misting for Commercial HVAC & Refrigeration				\$101,629	\$25,488	\$127,117	2/2014
Variable Speed Controls Installation					\$23,249	\$23,249	9/2014
Wind Washing in Two-Story Homes Phase II					\$26,479	\$26,479	12/2014
Deep Retrofit of Homes Phases I & II			\$27,412	\$222,602	\$191,656	\$441,670	12/2014
Residential Smart Thermostats – Small Scale Tests and Larger Trial				\$34,789	\$198,466	\$233,255	7/2015
Load Control Hardware Testing				\$44,520	\$5,100	\$49,621	12/2015
Variable Speed Evaporator Fan Controls for Commercial HVAC					\$24,615	\$24,615	12/2015
<b>Total</b>	<b>\$557,881</b>	<b>\$252,648</b>	<b>\$341,744</b>	<b>\$474,773</b>	<b>\$495,053</b>	<b>\$2,122,100</b>	

<sup>1</sup> 2015 dates represent the expected completion dates



**Q.**

Please complete the following chart using Excel format to illustrate the Company's expected projects in the Conservation Research and Development:

Conservation Research and Development – Project Name			
Year	Project Name	Description	Expected Expenditures
2015			
2016			
2017			
2018			
2019			
2020			
2021			
2022			
2023			
2024			

**A.**

Please see Attachment No. 1. At this time, FPL has not identified the specific research projects that will be conducted in 2016 and beyond. During the third and fourth quarters of each year FPL develops the research plan for the following year. The new technologies selected to become the subject of research projects are derived from those FPL identifies as now becoming commercially viable and/or those which customer are inquiring about. Since these technologies by their nature are new, it's not possible to determine years in advance which will be worthy of further study.

Conservation Research and Development – Project Name			
Year	Project Name	Description	Expected Expenditures <sup>1</sup>
2015	Deep Retrofit of Existing Homes (Building America Project - Phase II)	This is a continuation of the Building America project FPL is co-funding with the U.S. Department of Energy (DOE) in order to quantify and contrast the demand and energy savings paybacks associated with “light” and “deep” energy efficiency retrofit measures for existing homes in Florida's climate. The study should assist customers in ranking the priority order of energy efficiency upgrades for their homes. 60 homes received light retrofits such as efficient lighting, water heater tank insulation and shortened pool pump operating schedules. Ten homes received deep retrofits such as seasonal energy efficiency ratio (SEER) 16 high efficiency HVAC units, heat pump water heaters and targeted upgrades to Energy Star® appliances. End-use metering and statistical analysis will be used to estimate the impacts. Analysis of Phase I was completed in 2014. For Phase II, additional deep retrofit technologies were installed in a subset of the 60 homes. These retrofits include: learning thermostats (25 homes); ultra-high efficiency mini-split ductless air conditioners (11 homes); ducting of cool air from heat pump water heaters (8 homes); super-efficient Energy Star clothes washers and dryers (8 homes); variable-speed pool pumps (5 homes); and high efficiency windows and exterior wall insulation (2 homes). The monitoring and analysis will complete later this year with a final report available by year end.	\$91,892
	Commercial Rooftop HVAC Retrofit with Variable Speed Air Handler Fan	A 60-ton HVAC unit on a host supermarket location in Miami has been retrofitted with the Enerfit controller. Based on real-time feedback from multiple temperature and pressure sensors, the Enerfit slows down the air handler fan whenever maximum cooling capacity is not needed (essentially turning the existing fan motor into a variable speed drive) which could save energy and increase dehumidification. For one full year the controller will alternate every two weeks between control and bypass mode to gather data across the full range of weather conditions. Statistical regression and weather data for a typical meteorological year will be used to estimate any annual energy savings and peak hour demand reduction.	\$69,303
	Residential Smart Thermostats – Small Scale Tests and Larger Trial	FPL is testing various smart thermostat technologies. In 2012 through 2014, FPL conducted small-scale tests of purely algorithm-based devices. The purpose of these limited tests was to gather directional data to determine if these types of technologies might produce energy savings (and, if so, how much) and whether it could be beneficial to perform subsequent broader testing. In addition, FPL has also been conducting a larger trial of non-algorithm-based devices to assess the technical feasibility, customer acceptance and demand and energy impacts of broadband-connected thermostats which can be accessed and controlled via customer-owned mobile devices (i.e., smartphones and tablets). In 2013, FPL installed equipment in the homes of 180 volunteer participants. These participants agreed to allow FPL to perform load control tests using the thermostats during the trial period which will provide data on equipment capabilities and customers’ responses to such events (including whether they opt out). The trial period was completed at the end of 2014 and analysis of the results will be compiled later this year.	\$120,143
	SmartGrid Enabled Load Management Hardware Testing	FPL is conducting lab testing of emerging demand response switches that manufacturers claim can effectively communicate over FPL's SmartGrid network which would represent a potential alternate communications pathway to residential customers for demand response. Manufacturers claim their switches can use FPL's network and also potentially provide additional features for monitoring and controlling loads. The purpose of this testing is to determine the true readiness of these technologies.	\$100,241
2016	Not yet determined		
2017	Not yet determined		
2018	Not yet determined		
2019	Not yet determined		
2020	Not yet determined		
2021	Not yet determined		
2022	Not yet determined		
2023	Not yet determined		
2024	Not yet determined		

<sup>1</sup> Represents estimated 2015 expenditures

**Q.**

As part of either the Residential Energy Survey or Business Energy Evaluation, does the company provide any energy efficiency items to customers, such as lighting or low flow showerheads?

- a. If so, does FPL estimate the installation rate and savings associated with these items?
- b. For the Residential Energy Survey, would all types of audits receive the same items? If not, please describe which type of audit receives which items.

**A.**

No, FPL does not provide any such items as part of its Residential or Business Energy Survey programs.

**Q.**

Please explain the increase in the rebates for the Business HVAC Program.

**A.**

Based on the cost-effectiveness screening tests, some of the Business HVAC measures now can support higher maximum rebates than when the maximum rebates under the existing DSM Plan were determined in 2006. FPL's maximum rebates represent the lesser of the amounts which yield: (a) a Rate Impact Measure (RIM) screening test ratio of 1.01; or (b) a participant's payback of their incremental investment of no faster than 2 years. For these particular measures, in 2006 the participant payback criterion (based on the assumptions at that time) determined the maximum rebate that could be supported. Based on the current set of assumptions, the governing criterion for these measures is now the minimum RIM ratio.

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**Q.**

Please explain the increase in the rebates for the Business Lighting Program's PSMH measure.

**A.**

Please see FPL's response to Staff's First Data Request, No. 40. The same explanation applies to this measure.