



Stephanie A. Cuello  
SENIOR COUNSEL

April 2, 2024

**VIA ELECTRONIC FILING**

Adam J. Teitzman, Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

Re: *Commission Review of Numeric Conservation Goals (Duke Energy Florida, LLC);  
Docket 20240013-EG*

Dear Mr. Teitzman:

In accordance with Rule 25-17.0021(3), F.A.C., please find attached for filing Duke Energy Florida, LLC's (DEF) Petition for Approval of Conservation Goals, along with the Direct Testimony and Exhibits TD-1 through TD-8 of Mr. Timothy J. Duff, to be filed in the above-referenced Docket. This filing is in compliance with the Order Establishing Procedure dated January 23, 2024.

Thank you for your assistance in this matter. Please feel free to call me at (850) 521-1425 should you have any questions concerning this filing.

Sincerely,

/s/ Stephanie A. Cuello

Stephanie A. Cuello

SAC/clg  
Attachments

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

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In re: Commission Review of Numeric  
Conservation Goals (Duke Energy  
Florida, LLC).

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Docket No. 20240013-EG

Filed: April 2, 2024

**DUKE ENERGY FLORIDA, LLC'S  
PETITION FOR APPROVAL OF CONSERVATION GOALS**

Pursuant to Sections 366.81 and 366.82, Florida Statutes, and Rule 25-17.0021, Florida Administrative Code (“F.A.C.”), Duke Energy Florida, LLC (“DEF”) petitions the Florida Public Service Commission (“Commission”) for approval of DEF’s proposed conservation goals for the period 2025-2034. In support of this petition, DEF states:

1. The name and address of the affected agency is:

Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

2. The name and address of the petitioner is:

Duke Energy Florida, LLC  
299 First Avenue North  
St. Petersburg, Florida 33701

3. Notices, orders, pleadings and correspondence to be served upon DEF in this proceeding should be directed to:

Dianne M. Triplett  
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4. Pursuant to Section 366.81, Florida Statutes, the Commission requires each utility to develop plans and implement programs for increasing energy efficiency and conservation and demand-side renewable energy systems within its service area, subject to the approval of the Commission. DEF is a public utility within the meaning of Section 366.02(1), Florida Statutes, and is subject to the Commission's jurisdiction under Chapter 366, Florida Statutes. The establishment of DEF's conservation goals will affect the need for and selection of resource alternatives by DEF, and the goals will be the target for DEF to meet in its filing of a demand side management plan; therefore, DEF's substantial interests will be determined in this proceeding.

5. This docket and separate dockets for each of the other five FEECA utilities in Florida were established for the purpose of developing and prescribing numeric conservation or DSM goals for each of the six Florida FEECA utilities to be applicable during the period 2025-2034. The six separate dockets were consolidated in Order No. PSC-2024-0022-PCO-EG for the purpose of conducting Staff workshops and for hearing.

6. DEF is not aware of any disputed issues of material fact. DEF's programs, assumptions, and evaluation methodology in the proposed conservation goals are reasonable and are developed based upon the criteria set forth in Rule 25-17.0021, F.A.C. The Commission should approve the DSM goals proposed by DEF for the 2025 through 2034 time period.

7. For this DSM goal-setting proceeding, the FEECA utilities formed a collaborative effort and worked with an independent company, Resource Innovations, Inc. (“Resource Innovations”), to develop a comprehensive evaluation to assess the technical potential for reducing electricity use and peak demand by implementing a wide range of end-use energy efficiency and demand response measures, as well as customer-scale solar photovoltaic and solar thermal installations in the service territories of the six collaborative utilities. Resource Innovation’s Technical Potential Study served as the foundation for economic analysis screening and adoption forecasts for each collaborative utility, i.e., the Technical Potential Study, as described in the testimony of Jim Herndon and as shown for DEF in Exhibit No. JH-3. The Technical Potential Study developed by Resource Innovation identified the theoretical limit of electric peak demand and energy reductions in Florida. Mr. Herndon’s testimony and exhibits (to the extent they pertain to DEF)<sup>1</sup> are incorporated herein by reference.

8. DEF is simultaneously filing the prepared direct testimony and exhibits of Tim Duff. Mr. Duff’s testimony, along with the exhibits contained therein, set forth proposed conservation goals for the ten-year period 2025-2034 and summarize DEF’s ten-year projections based upon DEF’s most recent planning process of the total, cost-effective, winter and summer peak demand (MW) and annual energy (GWH) savings reasonably achievable in the residential and commercial/industrial classes through demand side management. DEF’s goals are delineated in Mr. Duff’s direct testimony.

9. Projections of summer and winter demand savings and annual energy savings are identified in Mr. Duff’s testimony and presented in Exhibit No. TD-1, also appended to Mr. Duff’s

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<sup>1</sup> Mr. Herndon’s exhibits pertaining to DEF and incorporated by reference are: Exhibit No. JH-3; Exhibit No. JH-9; and Exhibit No. JH-10.

testimony filed together with this Petition. DEF's projections reflect consideration of overlapping measures, rebound effects, free riders, interactions with building codes and appliance efficiency standards, and DEF's latest monitoring and evaluation of conservation programs and measures. The Commission should approve DEF's overall Residential MW and GWH goals and overall Commercial/Industrial MW and GWH goals set forth in this filing. These goals reflect the reasonably achievable demand side management potential in DEF's service territory over the ten-year period 2025-2034 developed in DEF's planning process.

10. DEF is entitled to relief pursuant to Sections 366.81 and 366.82, Florida Statutes and Rule 25-17.0021, F.A.C. DEF's proposed goals reflect the reasonably achievable demand side management potential in DEF's service territory over the ten-year period 2025-2034 developed in DEF's planning process. The Commission should approve the recommended goals set forth in DEF's recommended portfolio as set forth in this filing.

WHEREFORE, DEF respectfully requests that the Commission enter an order approving and establishing DEF's proposed numeric conservation goals pursuant to Rule 25-17.0021, F.A.C., as set forth in this filing.

Respectfully submitted,

/s/ Stephanie A. Cuello

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Attorneys for Duke Energy Florida, LLC

**CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished to the following by electronic mail this 2<sup>nd</sup> day of April, 2024, to all parties of record as indicated below.

\_\_\_\_\_  
*/s/ Stephanie A. Cuello*  
Attorney

<p>Jacob Imig / Jonathan Rubottom Office of General Counsel Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 <a href="mailto:jimig@psc.state.fl.us">jimig@psc.state.fl.us</a> <a href="mailto:JRubotto@psc.state.fl.us">JRubotto@psc.state.fl.us</a></p> <p>James W. Brew / Laura Wynn Baker / Sarah B. Newman Stone Mattheis Xenopoulos &amp; Brew, PC PCS Phosphate – White Springs 1025 Thomas Jefferson Street, NW Suite 800 West Washington, DC 20007-5201 <a href="mailto:jbrew@smxblaw.com">jbrew@smxblaw.com</a> <a href="mailto:lwb@smxblaw.com">lwb@smxblaw.com</a> <a href="mailto:sbn@smxblaw.com">sbn@smxblaw.com</a></p>	<p>Walt Trierweiler / Patricia A. Christensen Office of Public Counsel 111 West Madison Street, Suite 812 Tallahassee, FL 32399-1400 <a href="mailto:trierweiler.walt@leg.state.fl.us">trierweiler.walt@leg.state.fl.us</a> <a href="mailto:christensen.patty@leg.state.fl.us">christensen.patty@leg.state.fl.us</a></p>
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**DUKE ENERGY FLORIDA**  
**DOCKET NO. 20240013-EG**  
**DIRECT TESTIMONY OF**  
**TIM DUFF**

**INTRODUCTION AND QUALIFICATIONS**

**Q. Please state your name and business address.**

A. My name is Timothy J. Duff. My business address is 525 South Tyron Street, Charlotte, NC 28201.

**Q. By whom are you employed and in what capacity?**

A. I am employed by Duke Energy Florida, LLC (“Duke Energy Florida,” “DEF,” “the Company,” or “the utility”) as General Manager, Grid Strategy Enablement, in the Pricing and Customer Solutions Department.

**Q. Please describe the duties and responsibilities of your position with the Company.**

A. I am responsible for the development of strategies, policies, regulatory planning, and compliance related to the implementation of Customer Solutions retail products and offerings that are designed to create customer and utility system value including Demand-Side Management (“DSM”) programs. By DSM, I mean both dispatchable (demand response or direct load control) and



1 non-dispatchable (energy efficiency) types of programs. I also oversee the  
2 analytics functions associated with evaluating and tracking the performance of  
3 Customer's Solutions retail products and services. My responsibilities cover all  
4 of Duke Energy's utility operating companies, including DEF.

5

6 **Q. Please summarize your educational background and professional**  
7 **experience.**

8 A. I graduated from Michigan State University with a Bachelor of Arts in Political  
9 Economics and a Bachelor of Arts in Business Administration and received a  
10 Master of Business Administration degree from Stephen M. Ross School of  
11 Business at the University of Michigan.

12

13 **Q. Have you previously testified before the Florida Public Service**  
14 **Commission?**

15 A. Yes. I have provided both written and oral testimony to the Florida Public  
16 Service Commission ("FPSC" or the "Commission") on behalf of the Company  
17 on numerous occasions in support of the Company's DSM programs and  
18 Energy Conservation Cost Recovery clause filings.

19

20 **Q. What is the purpose of your testimony?**

21 A. The purpose of my testimony is to present Duke Energy Florida's proposed  
22 numerical DSM goals ("Recommended goals") for 2025-2034 for Commission

1 review and approval. DEF's Recommended goals are based upon the analysis  
2 completed by the Company in accordance with the requirements set forth by  
3 Commission Staff in the Order Establishing Procedure (OEP) in this docket and  
4 Fla. Admin. Code Rule 25-17.0021 ("Rule 25-17.0021"). Additionally, the  
5 Recommended goals proposed in this proceeding are supported by the results  
6 of a new Technical Potential ("TP") study completed by Resource Innovations,  
7 Inc. ("RI") as outlined by Witness Jim Herndon's testimony in Exhibit JH-3.

8

9 **Q. Please describe how the Company conducted the analysis on the cost-**  
10 **effectiveness of the portfolios responsive to the Rulemaking change**  
11 **effective June 6, 2023 for Rule 25-17.0021?**

12 A. Rule 25-17.0021 was amended effective June 6, 2023. Rule 25-17.0021(3)  
13 states that "each utility must file its proposed demand-side management goals.  
14 Each utility must also file demand-side management goals developed under  
15 two scenarios: one scenario that includes **potential demand-side**  
16 **management programs** that pass the Participant and Rate Impact Measure  
17 Tests, and one scenario that includes **potential demand-side management**  
18 **programs** that pass the Participant and Total Resource Costs Tests."  
19 (emphasis added). As such, in compliance with Rule 25-17.0021, the  
20 Company assessed the respective cost-effectiveness test of the portfolio at the  
21 program level and not at the measure level as done in prior goals setting  
22 proceedings. DEF also provides a proposed Recommended portfolio

1 evaluation, Rate Impact Measure (“RIM”) portfolio evaluation and a Total  
2 Resource Cost Test (“TRC”) portfolio evaluation.

3

4 **Q. Are you sponsoring any Exhibits to your testimony?**

5 A. Yes, I have prepared or supervised the preparation of the following exhibits to  
6 my direct testimony:

7 1. Exhibit TD-1: Duke Energy Florida's Residential and Non-Residential  
8 Annual Potential RIM Portfolio Evaluation for 2025-2034 at the generator.

9 2. Exhibit TD-2: Duke Energy Florida's Residential and Non-Residential  
10 Annual Potential TRC Portfolio Evaluation for 2025-2034 at the generator.

11 3. Exhibit TD-3: Duke Energy Florida Residential and Non-Residential Annual  
12 Potential Recommended Portfolio Evaluation for 2025-2034 at the  
13 generator.

14 4. Exhibit TD-4: Duke Energy Florida's Avoided Cost Assumptions.

15 5. Exhibit TD-5: Projected Costs of implementing the RIM, TRC and  
16 Recommended Portfolio and the associated Projected Residential  
17 Customer Rate Impacts.

18 6. Exhibit TD-6: The RIM, TRC and Participant Tests benefits and cost  
19 analysis for all programs for all Portfolios.

20 7. Exhibit TD-7: The cost-effectiveness tests for all programs in the RIM  
21 Portfolio.

1 8. Exhibit TD-8: The cost-effectiveness test for all programs in the TRC  
2 Portfolio.

3 These exhibits are true and accurate.  
4

5 **Q. Please summarize your testimony.**

6 A. My testimony presents the Company's Recommended goals for the 2025-2034  
7 period for Commission review. I describe the process that was used to develop  
8 the three potential portfolios for proposed DSM goals and provide a summary  
9 of those results. My testimony includes the estimated average residential  
10 customer bill impacts for the RIM Portfolio evaluation, the TRC Portfolio  
11 evaluation, and a Recommended Portfolio evaluation that includes measures  
12 that passed RIM, TRC or both, as well as measures included in programs  
13 targeting low-income customers. I will also discuss the current DSM programs  
14 and provide an explanation for the differences in the Recommended goals and  
15 the current goals.  
16

17 **Q. Are the utility's proposed goals based on an adequate assessment of the**  
18 **full Technical Potential of all available demand-side and supply-side**  
19 **conservation and efficiency measures, including demand-side renewable**  
20 **energy systems?**

21 A. Yes, the TP, that is the basis for the proposed Recommended goals, includes  
22 an evaluation of all potential demand-side conservation and efficiency

1 measures and demand-side renewable energy systems available in the DEF  
2 Service territory. Demand-side renewable energy systems were evaluated  
3 based on the same cost-effectiveness standards that were used to evaluate  
4 other energy efficiency measures. No renewable measures were found to be  
5 cost-effective and therefore, none are included in the measure adoption  
6 forecasts results.

7

8 **Q. Do the utility's proposed goals adequately reflect the costs and benefits**  
9 **to customers participating?**

10 A. Yes. The proposed Recommended goals are based on measures that pass  
11 the Participant Cost Test (PCT). The PCT compares the incremental cost to  
12 participants to the participant benefits (bill savings). This ensures that the  
13 measures provide net benefits to participants.

14

15 **Q. Do the utility's proposed goals adequately reflect the costs and benefits**  
16 **to the general body of ratepayers as a whole, including utility incentives**  
17 **and participant contributions?**

18 A. Yes, the proposed Recommended goals adequately reflect the total costs and  
19 benefits to the general body of ratepayers as a whole because the  
20 Recommended goals are based on measures that pass RIM, TRC and PCT,  
21 with the exception of a few measures included in programs targeting low-  
22 income customers. The RIM, TRC and PCT tests, altogether, effectively ensure

1 both participants and non-participants benefit.

2

3 **Q. Do the utility's proposed goals adequately reflect the need for incentives**  
4 **to promote both customer-owned and utility-owned energy efficiency and**  
5 **demand-side renewable energy systems?**

6 A. Yes. DEF does not believe there is currently a need for incentives to promote  
7 demand-side renewable energy systems as the demand-side renewable  
8 market has continued to mature and there has been significant growth in  
9 customer sited demand-side renewable energy systems. DEF continues to see  
10 significant growth in the number of customers installing demand-side  
11 renewable systems on their own, without incentives from the utility.

12

13 **Q. Do the utility's proposed goals adequately reflect the costs imposed by**  
14 **state and federal regulations on the emissions of greenhouse gases?**

15 A. Yes. Given the uncertainty of future carbon regulation and the lack of any  
16 formally established cost of carbon emissions, it is reasonable to exclude any  
17 formal recognition of the cost of carbon emissions in this DSM goals setting  
18 process. Any state and federal mandates pertaining to equipment efficiency  
19 and availability in Florida related to the emissions of greenhouse gases have  
20 been appropriately recognized in the development of the TP evaluation. The  
21 Company believes that the utilization of a high fuel cost sensitivity in the

1 economic modeling performed by RI serves as an appropriate proxy for any  
2 needed recognition of the cost of carbon emissions.

3

4 **Q. Do the utility's proposed goals adequately reflect consideration of free**  
5 **riders?**

6 A. Yes, the Recommended goals are based on measures that have greater than  
7 a two-year payback period. A two-year payback period is a reasonable time  
8 period in which to limit measures and assume that customers will adopt them  
9 absent a utility incentive. This time period has been recognized by the  
10 Commission in past proceedings as a reasonable proxy to eliminate free riders.  
11 Since 1991, a payback of two years or less has been recognized by the  
12 Commission as an appropriate threshold to reduce free ridership, limit  
13 unnecessary program incentive costs ultimately borne by customers, and  
14 maximize cost-effectiveness.

15

16 **Q. What residential and commercial/industrial summer and winter Megawatt**  
17 **(MW) and annual Gigawatt-hour (GWh) goals should be established for**  
18 **the period of 2025-2034?**

19 A. DEF requests the Commission approve the Recommended cumulative  
20 numeric goals for 2025-2034 presented in Table 1 below. The annual goals  
21 that comprise the Recommended cumulative goals are provided on Exhibit TD-  
22 1. Exhibit TD-2 and Exhibit TD-3 provide a breakdown of the RIM and TRC

1 annual goals, respectively, into the energy efficiency and demand response  
2 components that reconcile to the EE achievable potential and DR achievable  
3 potential presented in the TP. These proposed Recommended goals, at the  
4 program level, have been developed in accordance with the requirements of  
5 Rule 25-17.0021(3), which directs utilities to propose goals "... based upon the  
6 utility's most recent planning process, and must reflect the annual (KW) and  
7 energy (KWH) savings, over a ten-year period". These Recommended goals  
8 are based on programs that are cost-effective based on RIM, TRC, and PCT  
9 and exclude measures that have a payback period of less than 2 years. The  
10 conjunction of these tests captures all of the relevant costs and benefits that  
11 should be evaluated when considering an efficiency or load reduction program.  
12 Evaluating measures with RIM ensures that non-participating customers will  
13 not subsidize participating customers and reasonably limits overall rate impacts  
14 to customers. Evaluating measures using TRC accounts for the total benefits  
15 of the program including both the participants and the overall value to the utility  
16 system. The PCT ensures that the energy efficiency measures provide benefits  
17 to participants. Recommended Goals based on RIM, TRC, and PCT ensure  
18 that the benefits and costs are considered from the perspective of participants  
19 as well as ratepayers to ensure the rate impact for non-participants is  
20 appropriately considered.

21



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**Table 1**

<b>DUKE ENERGY FLORIDA - RECOMMENDED GOALS 2025-2034</b>			
	<b>Winter Peak MWs</b>	<b>Summer Peak MWs</b>	<b>GWH's</b>
Residential	320	207	506
Non-Residential	42	84	55
<b>Total</b>	<b>362</b>	<b>291</b>	<b>561</b>

2

3

4 **Q. What goals, if any, should be established for increasing the development**  
5 **of demand-side renewable energy systems?**

6 A. Given that renewable systems were not deemed cost-effective under the RIM  
7 test, it would not be appropriate to establish goals for demand-side renewable  
8 systems in this goals setting proceeding. Demand-side renewable systems  
9 were evaluated using the same criteria as were used for other energy efficiency  
10 measures. Programs that provide incentives to customers who install  
11 renewable systems would result in cross subsidies between participants and  
12 non-participants and increase rates to all customers.

13

14 **Q. Provide a description of how the utility’s Technical Potential Study has**  
15 **been updated and modified, including any measures eliminated or added**  
16 **since the utility’s last filed Technical Potential Study. Specifically identify**  
17 **any changes associated with changes to building code or appliance**  
18 **efficiency standards.**

1 A. DEF, along with the other FEECA utilities, contracted with RI to develop a new  
2 comprehensive TP study of all available demand-side conservation and energy  
3 efficiency measures, including renewable energy systems, to support this goals  
4 setting process. To maintain modeling consistency, DEF also contracted with  
5 RI to develop the economic analysis and measure adoption forecasts of these  
6 measures for the utility.

7  
8 The FEECA utilities worked collaboratively with RI and interested parties to  
9 develop a list of measures and assumptions for potential demand and energy  
10 impacts for each of the measures included in the TP. The results of that effort  
11 and a discussion of that process are included in the TP presented in Exhibit  
12 JH-3 to Mr. Herndon's testimony. This report includes a summary of the  
13 measures eliminated or added compared to the 2019 TP study and discusses  
14 changes associated with updated building codes and standards and are  
15 presented in Exhibit JH-9.

16  
17 RI then developed the avoided cost assumptions for the base case (no carbon  
18 dioxide pricing) and the high and low fuel sensitivities and carbon sensitivity as  
19 identified in the OEP. The assumptions that support each of these cases are  
20 provided in Mr. Herndon's testimony.

21

1 RI collected the cost-effectiveness of each measure included in the TP study  
2 based on both a RIM and TRC evaluation. RI evaluated the cost-effectiveness  
3 for the base case, the fuel sensitivities, and the 1 and 3-year payback  
4 sensitivities for free ridership. The list of passing measures for the base case  
5 and each sensitivity for the RIM and TRC scenarios was developed by RI for  
6 the Economic (“EA”) analysis. The list of passing measures for the base case  
7 and each sensitivity are provided in Exhibit JH-9.

8  
9 RI then performed the economic screening and developed the EA for the base  
10 case and each of the sensitivities utilizing the results of the RIM and TRC  
11 scenarios. Next, RI developed the measure adoption forecasts for customer  
12 adoption and current known market conditions for the base case for both a RIM  
13 and TRC portfolio. A detailed discussion of the process to develop the  
14 economic screening and measure adoption forecasts is included in RI’s TP  
15 report.

16  
17 DEF reviewed the results of the measure adoption forecasts for  
18 reasonableness by comparing the results to historical actual achievements and  
19 analyzing the potential impacts of changes in savings and incentive levels on  
20 future participation for similar measures. Consistent with the methodology  
21 used to develop the currently approved goals, DEF is proposing that  
22 Recommended goals are based on a portfolio of programs which include RIM

1 measures, a modest number of TRC measures to enhance the  
2 comprehensiveness of the programs, and the Company's two existing  
3 programs that target low-income customers, which primarily include measures  
4 that are not cost-effective under RIM or TRC. It is important to note that the  
5 total costs and benefits associated with the portfolio of programs underlying the  
6 Recommended goals are cost-effective under both RIM and TRC.

7

8 **Q. Please provide a description of how the utility's Base Case with no**  
9 **incremental demand-side management was developed. This should**  
10 **include forecasts for generation resources, customer winter and summer**  
11 **demand and annual energy for load, and fuel prices based on the utility's**  
12 **most recent planning process, as well as a discussion of the impacts**  
13 **related to changes in Federal and State efficiency standards.**

14 A. The Base Case was developed using the same integrated resource planning  
15 model and assumptions for customer winter and summer demand, annual  
16 energy for load, and fuel prices that were the basis for the 2023 Ten Year Site  
17 Plan filing with two exceptions. The first exception is that the Base Case  
18 assumes no new DSM after 2023 and the second exception is that the Base  
19 Case also excludes any costs for carbon dioxide emissions. This process  
20 identified a portfolio of potential units required to meet future capacity  
21 requirements. The next combustion turbine unit in DEF's resource plan was  
22 identified as the avoided unit for purposes of evaluating the cost-effectiveness

1 of potential DSM measures. Please see Exhibit TD-4 for a summary of the  
2 avoided cost assumptions resulting from this process. Resource planning and  
3 forecasting includes changes related to Federal and State efficiency standards.  
4 A discussion of the process and impacts is included in the 2023 Ten Year Site  
5 Plan.

6

7 **Q. The Base Case should not include estimated costs associated with**  
8 **carbon dioxide emissions, but utilities may provide sensitivities**  
9 **including these costs. If included, provide a detailed description of how**  
10 **the sensitivity was developed and compares to the Base Case, including**  
11 **forecasts for fuel prices and emissions costs.**

12 A. As mentioned previously, the Base Case excludes any costs for carbon dioxide  
13 emissions.

14

15 **Q. Provide a description of the Base Case's next avoidable generating unit**  
16 **and describe the methodology used to determine it. Utilities may provide**  
17 **sensitivities with a different avoided unit, and if so, should describe it and**  
18 **methodology used to select it.**

19 A. The next avoidable generating unit is a combustion turbine unit in the resource  
20 plan and was identified as the avoided unit for purposes of evaluating the cost-  
21 effectiveness of potential DSM measures. Please see Exhibit TD-4 for a  
22 summary of the assumptions resulting from this process.

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**Q. For the utility’s proposed goals, as well as for the goals developed under the two cost-effectiveness scenarios as required by Rule 25-17.0021(3), F.A.C., provide the estimated rate impact on residential 1,000 kWh/month bill and a breakdown at the program level with demand and energy savings, program costs and benefits, cost-effectiveness test results, list of measures included, and participation rates.**

A. The residential bill impacts for the proposed RIM programs, TRC programs, and Recommended programs portfolios are presented in Tables 2, 3, and 4 below. These impacts include the normal components that comprise a residential bill, namely, base rates, recovery clauses, customer charges, gross receipts taxes, and regulatory assessment fees. These costs also include the costs for maintaining the existing level of load management on the system, as well as the costs of residential and commercial energy audits. The results of these analyses show an estimated total cost for a 1000 kWh/month residential bill for the ten-year period for the RIM portfolio of \$22,304, the TRC portfolio of \$22,354, and the Recommended portfolio of \$22,323. These differences are due entirely to the differences in incentives and program management costs for the energy efficiency programs. The assumptions for incentives and program management costs for the demand response programs are the same in the RIM, TRC, and the Recommended analyses. The TRC portfolio cost is 13% higher on average on an annual basis than the RIM portfolio cost. The

1 Recommended portfolio is 5% higher on average on an annual basis than the  
 2 RIM portfolio costs and the TRC portfolio is 7% higher on average on an annual  
 3 basis than the Recommended portfolio costs. The projected annual RIM, TRC,  
 4 and Recommended portfolio costs along with the projected energy  
 5 conservation clause recovery rate for a residential 1000 kwh bill are provided  
 6 in Exhibit TD-5.

7  
 8 Additionally, a break down at the program level with demand and energy  
 9 savings, program costs and benefits, and cost-effectiveness test results are  
 10 also provided in Exhibit TD-6 for the Recommended Portfolio, Exhibit TD-7 for  
 11 the RIM Portfolio, and Exhibit TD-8 for the TRC Portfolio.

12

TABLE 2 RIM PORTFOLIO PROJECTED ANNUAL RESIDENTIAL BILL - MONTHLY USAGE OF 1000 KWH'S										
Total	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
\$22,304	\$2,121	\$2,142	\$2,141	\$2,188	\$2,213	\$2,231	\$2,258	\$2,299	\$2,343	\$2,371

13

14

TABLE 3 TRC PORTFOLIO PROJECTED ANNUAL RESIDENTIAL BILL - MONTHLY USAGE OF 1000 KWH										
Total	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
\$ 22,354	\$ 2,123	\$ 2,145	\$ 2,144	\$ 2,192	\$ 2,218	\$ 2,236	\$ 2,264	\$ 2,305	\$ 2,349	\$ 2,377

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TABLE 4 RECOMMENDED PORTFOLIO PROJECTED ANNUAL RESIDENTIAL BILL - MONTHLY USAGE OF 1000 KWH											
	Total	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
\$	22,323	\$ 2,122	\$ 2,144	\$ 2,142	\$ 2,189	\$ 2,215	\$ 2,233	\$ 2,260	\$ 2,301	\$ 2,345	\$ 2,373

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2

3 **Q. Provide a description of the program development process and identify**  
 4 **measures excluded during each stage of the process and why. As part of**  
 5 **this description, identify restrictions, if any, on program design due to**  
 6 **current settlements, such as rebate amounts.**

7 A. The program development process and identification of measures excluded  
 8 during each stage are provided in the TP presented in Exhibit JH-10 to Mr.  
 9 Herndon’s testimony.

10

11 **Q. For the utility’s proposed goals, as well as for the goals developed under**  
 12 **the two cost-effectiveness scenarios as required by Rule 25-17.0021(3),**  
 13 **F.A.C., provide a description of how free-ridership is addressed. If the**  
 14 **utility elects to use a payback period for free-ridership screening, provide**  
 15 **sensitivities on the payback period.**

16 A. The Recommended portfolio, as well as the RIM and TRC portfolios, are based  
 17 on measures that have greater than a two-year payback period. A two-year  
 18 payback period is a reasonable time period in which to limit measures and  
 19 assume that customers will adopt them absent a utility incentive. As explained  
 20 above, RI completed 1 and 3-year payback sensitivities for free ridership.



1

2 **Q. Please provide a description on how supply-side efficiencies are**  
3 **incorporated in the utility's most recent planning process and how**  
4 **supply-side efficiencies impact demand-side management programs.**

5 A. DEF evaluates supply-side alternatives and develops the optimal plan as an  
6 integral part of its Integrated Resource Planning ("IRP") process. DEF employs  
7 the IRP process to determine the most cost-effective mix of supply and  
8 demand-side alternatives that will reliably satisfy customers' future demand  
9 and energy needs. DEF's IRP process evaluates a wide range of future  
10 generation alternatives and cost-effective conservation and dispatchable  
11 demand-side management programs on a consistent and integrated basis.  
12 DEF develops projects that will contribute to the overall fleet efficiency and  
13 screens these projects in the IRP process. DEF's IRP process includes  
14 modeling for both capital optimization and production cost impacts. The  
15 selected plans are identified based on the lowest overall life cycle costs  
16 including operational efficiencies. The cost of demand-side projects is  
17 measured against the avoided supply-side costs in determining program  
18 measures that will achieve the most cost-effective integrated demand and  
19 supply-side portfolio.

20

1 **Q. Provide a description of the efforts made to address customers who rent**  
2 **in program development, including a list of programs they would be**  
3 **eligible to participate in.**

4 A. Customers who rent are eligible to participate in all existing residential energy  
5 efficiency programs and demand response programs offered by DEF.

6

7 The following is a list of DEF's Residential DSM programs that customers who  
8 rent are eligible to participate in:

9

10 Home Energy Check - This residential energy audit program provides  
11 customers with an analysis of their energy consumption as well as educational  
12 information on how to save money by reducing energy usage. The program  
13 offers a variety of options to customers for home energy audits including walk-  
14 through, phone assisted, and online audits. At the completion of the audit, DEF  
15 provides kits that contain energy saving measures that can be easily installed  
16 by the customer.

17

18 Residential Incentive Program - This program provides incentives on a variety  
19 of cost-effective measures designed to provide energy savings across different  
20 housing types. It also provides customers with energy savings and demand  
21 reduction through installation of energy efficient equipment.

22

1        New Builder Construction-Multi-Family - DEF is proposing a new builder  
2        construction bundle offering that would allow bundling of multi-family measures  
3        through this program. This additional offering will allow builders to install  
4        energy efficiency measures and provide them an opportunity to participate in  
5        incentives.

6  
7        Residential Load Management - This program is a direct load control program  
8        that is designed to reduce DEF's demand during peak or emergency conditions  
9        by temporarily interrupting service to selected customer electrical equipment.

10  
11        Additionally, low-income/income qualified customers who rent are eligible to  
12        participate in our Neighborhood Energy Saver and Low-Income Weatherization  
13        Assistance Program programs.

14  
15        In 2021, the Commission approved program modifications, and DEF increased  
16        targeted low-income residential customers through its Neighborhood Energy  
17        Saver program by 5% above the 2020 DSM Plan levels for calendar years  
18        2022-2024 (or an additional 250 customers). Also in 2021, DEF began to  
19        provide Assistance Kits to low-income customers through its Home Energy  
20        Check program. The Assistance Kits are available for up to 20,000 qualifying  
21        low-income customers for calendar years 2022-2025. The kits contain a  
22        number of measures that fail the two-year payback screen but provide energy

1 efficiency savings to low-income customers. These changes increased the  
2 savings opportunity for low-income customers at no cost to program  
3 participants.

4  
5 **Q. Provide a comparison of the programs used to determine the utility's**  
6 **proposed Recommended goals to its current demand-side management**  
7 **program offerings.**

8 A. The comparison of programs included in the utility's proposed Recommended  
9 goals to its current demand-side management program offerings is provided in  
10 the table below. As shown, DEF has dropped measures that no longer meet  
11 efficiency standards or have not been successful in the market, added  
12 measures that were needed and created a new bundling of measures targeting  
13 the multi-family sector to increase participation and the focus on efficiency  
14 opportunities available to tenants/landlords. The New Builder Construction –  
15 Multi-family seeks to avoid the split incentive barrier that has traditionally  
16 negatively impacted efforts to reach renters in multi-family properties by  
17 providing incentives to property managers and landlords to install efficiency on  
18 the front-end that will allow the energy savings to be realized by the renter  
19 population over time.

20

PROGRAMS	MEASURE COUNT			
	EXISTING	EXISTING/KEEP	NEW	DROP
Business Energy Check	3			
Home Energy Check	13		1	
Low Income Weatherization	15		1	4
Neighborhood Energy Saver	18		3	3
Residential Incentive Program	14		3	3
Residential Load Management	3		2	
Smart \$aver Business	13		17	9
Smart \$aver Custom	2			
	81		27	19
ADDITIONAL	EXISTING/KEEP	NEW	DROP	
New Builder Construction-MF	2		2	0
<b>TOTAL</b>	<b>83</b>		<b>29</b>	<b>19</b>

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Additionally, DEF is proposing changes to the Interruptible General Service (IS) credit rate for IS-2 and IST-2 rate schedules, the Curtailable General Service (CS) credit rate for the CS-2, CS-3, CST-2 and CST-3 rate schedules, and the Standby Generation General Service (SBG) credit rate for the GSLM-2 rate schedule. These changes will allow DEF to maintain the cost-effectiveness results for the offerings that were included in the 2019 DSM goals docket filing.

**CONCLUSION**

**Q. What are the proposed Recommended DSM goals that are reasonably achievable during the 2025-2034 period?**

<b>DUKE ENERGY FLORIDA - PROPOSED RECOMMENDED GOALS 2025-2034</b>			
	<b>Winter Peak MWs</b>	<b>Summer Peak MWs</b>	<b>GWH's</b>
Residential	320	207	506
Non-Residential	42	84	55
<b>Total</b>	362	291	561

1

2

3 **Q. Have these goals been determined through a sound and reasonable**  
 4 **process?**

5 A. Yes. These Recommended goals were determined after a comprehensive  
 6 analysis of the TP of all available demand-side and supply-side conservation  
 7 and efficiency measures, including demand-side renewable energy systems,  
 8 pursuant to Section 366.82.

9

10 **Q. Should Duke Energy Florida's proposed goals for 2025-2034 be**  
 11 **approved?**

12 A. Yes. Duke Energy Florida's Recommended goals were developed consistent  
 13 with the requirements of both the rules and the statute, are cost-effective, and  
 14 are reasonably achievable.

15

16 **Q. Does this conclude your testimony?**

17 A. Yes, this concludes my testimony.

**DUKE ENERGY FLORIDA'S  
RESIDENTIAL AND NON-RESIDENTIAL ANNUAL POTENTIAL  
RIM PORTFOLIO EVALUATION FOR 2025-2034 AT THE GENERATOR**

2025-2034 Annual Goals									
RIM Annual Goals (values at the generator)									
	Residential			Non-Residential			Total		
	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WMW	SMW	GWH'S
2025	20	11	26	4	7	5	24	19	31
2026	21	11	26	3	7	5	24	18	31
2027	21	11	26	4	9	6	25	20	32
2028	21	11	26	4	9	6	25	20	33
2029	22	12	26	4	10	7	26	21	33
2030	20	11	25	4	9	6	24	20	32
2031	20	11	25	4	8	6	24	19	30
2032	19	11	24	5	8	5	24	19	29
2033	19	11	24	5	8	4	24	19	29
2034	19	11	24	5	8	4	24	18	28
<b>TOTAL</b>	<b>203</b>	<b>111</b>	<b>252</b>	<b>42</b>	<b>84</b>	<b>55</b>	<b>245</b>	<b>195</b>	<b>307</b>

RIM ANNUAL GOALS EE AND DR @ Generator																		
	RES EE			RES DR			RES TOTAL			NON-RES EE			NON-RES DR			NON-RES TOTAL		
	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WMW	SMW	GWH'S
2025	15	8	26	5	4	0	20	11	26	0	4	5	3	4	0	4	7	5
2026	15	8	26	5	4	0	21	11	26	0	4	5	3	3	0	3	7	5
2027	16	8	26	5	4	0	21	11	26	0	4	6	4	5	0	4	9	6
2028	16	8	26	5	4	0	21	11	26	0	5	6	4	4	0	4	9	6
2029	16	8	26	5	4	0	22	12	26	0	5	7	4	5	0	4	10	7
2030	15	7	25	5	4	0	20	11	25	0	4	6	4	5	0	4	9	6
2031	14	7	25	5	4	0	20	11	25	0	4	6	4	5	0	4	8	6
2032	14	7	24	5	4	0	19	11	24	0	3	5	4	5	0	5	8	5
2033	14	7	24	5	4	0	19	11	24	0	3	4	4	5	0	5	8	4
2034	14	7	24	5	4	0	19	11	24	0	2	4	4	5	0	5	8	4
<b>TOTAL</b>	<b>149</b>	<b>74</b>	<b>252</b>	<b>53</b>	<b>37</b>	<b>0</b>	<b>203</b>	<b>111</b>	<b>252</b>	<b>3</b>	<b>39</b>	<b>55</b>	<b>39</b>	<b>46</b>	<b>0</b>	<b>42</b>	<b>84</b>	<b>55</b>

**DUKE ENERGY FLORIDA'S  
RESIDENTIAL AND NON-RESIDENTIAL ANNUAL POTENTIAL  
TRC PORTFOLIO EVALUATION FOR 2025-2034 AT THE GENERATOR**

2025-2034 Annual Goals									
TRC Annual Goals (values at the generator)									
	Residential			Non-Residential			Total		
	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WMW	SMW	GWH'S
2025	32	16	40	7	11	17	39	27	57
2026	35	17	43	7	11	17	41	27	59
2027	37	18	45	8	12	17	45	30	62
2028	39	19	48	7	12	18	47	31	65
2029	42	20	51	8	13	18	50	33	69
2030	45	21	54	7	13	18	53	34	72
2031	47	22	57	7	12	17	54	34	74
2032	49	23	59	8	13	17	57	35	76
2033	49	23	60	8	12	17	57	35	77
2034	49	23	59	8	12	17	57	35	77
<b>TOTAL</b>	<b>425</b>	<b>200</b>	<b>516</b>	<b>74</b>	<b>122</b>	<b>173</b>	<b>499</b>	<b>322</b>	<b>689</b>

TRC ANNUAL GOALS EE AND DR																		
	RES EE			RES DR			RES TOTAL			NON-RES EE			NON-RES DR			NON-RES TOTAL		
	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WKW	SKW	GWH'S
2025	27	12	40	5	4	0	32	16	40	4	7	17	3	4	0	7	11	17
2026	29	13	43	5	4	0	35	17	43	4	7	17	3	3	0	7	11	17
2027	32	14	45	5	4	0	37	18	45	4	8	17	4	5	0	8	12	17
2028	34	15	48	5	4	0	39	19	48	4	8	18	4	4	0	7	12	18
2029	37	16	51	5	4	0	42	20	51	4	8	18	4	5	0	8	13	18
2030	40	17	54	5	4	0	45	21	54	3	8	18	4	5	0	7	13	18
2031	42	18	57	5	4	0	47	22	57	3	8	17	4	5	0	7	12	17
2032	43	19	59	5	4	0	49	23	59	3	7	17	4	5	0	8	13	17
2033	44	19	60	5	4	0	49	23	60	3	7	17	4	5	0	8	12	17
2034	43	19	59	5	4	0	48	23	59	3	7	17	4	5	0	8	12	17
<b>TOTAL</b>	<b>370</b>	<b>163</b>	<b>516</b>	<b>53</b>	<b>37</b>	<b>0</b>	<b>424</b>	<b>200</b>	<b>516</b>	<b>35</b>	<b>76</b>	<b>173</b>	<b>39</b>	<b>46</b>	<b>0</b>	<b>74</b>	<b>122</b>	<b>173</b>



**DUKE ENERGY FLORIDA  
RESIDENTIAL AND NON-RESIDENTIAL ANNUAL POTENTIAL  
RECOMMENDED PORTFOLIO EVALUATION FOR 2025-2034 AT THE  
GENERATOR**

2025-2034 Annual Goals									
Recommended Annual Goals (values at the generator)									
	Residential			Non-Residential			Total		
	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WMW	SMW	GWH'S
2025	31	20	48	4	7	5	34	27	53
2026	31	20	49	3	7	5	34	27	54
2027	32	21	50	4	9	6	37	30	56
2028	33	21	51	4	9	6	37	30	57
2029	33	21	51	4	10	7	38	31	58
2030	32	21	51	4	9	6	36	30	57
2031	32	21	51	4	8	6	36	29	57
2032	32	21	51	5	8	5	37	29	56
2033	32	21	52	5	8	4	37	29	56
2034	32	21	52	5	8	4	37	29	56
<b>TOTAL</b>	<b>320</b>	<b>207</b>	<b>506</b>	<b>42</b>	<b>84</b>	<b>55</b>	<b>362</b>	<b>291</b>	<b>561</b>

RECOMMENDED ANNUAL GOALS EE AND DR (values at generator)																		
	RES EE			RES DR			RES TOTAL			NON-RES EE			NON-RES DR			NON-RES TOTAL		
	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WMW	SMW	GWH'S	WKW	SKW	GWH'S
2025	26	16	48	5	4	0	31	20	48	0	4	5	3	4	0	4	7	5
2026	26	17	49	5	4	0	31	20	49	0	4	5	3	3	0	3	7	5
2027	27	17	50	5	4	0	32	21	50	0	4	6	4	5	0	4	9	6
2028	27	17	51	5	4	0	33	21	51	0	5	6	4	4	0	4	9	6
2029	28	17	51	5	4	0	33	21	51	0	5	7	4	5	0	4	10	7
2030	27	17	51	5	4	0	32	21	51	0	4	6	4	5	0	4	9	6
2031	27	17	51	5	4	0	32	21	51	0	4	6	4	5	0	4	8	6
2032	27	17	51	5	4	0	32	21	51	0	3	5	4	5	0	5	8	5
2033	27	17	52	5	4	0	32	21	52	0	3	4	4	5	0	5	8	4
2034	27	17	52	5	4	0	32	21	52	0	2	4	4	5	0	5	8	4
<b>TOTAL</b>	<b>267</b>	<b>170</b>	<b>506</b>	<b>53</b>	<b>37</b>	<b>0</b>	<b>320</b>	<b>207</b>	<b>506</b>	<b>3</b>	<b>39</b>	<b>55</b>	<b>39</b>	<b>46</b>	<b>0</b>	<b>42</b>	<b>84</b>	<b>55</b>

**DUKE ENERGY FLORIDA'S  
AVOIDED GENERATION ASSUMPTIONS**

<b>GT Brownfield- COMBUSTION TURBINE</b>		<b>Unit 1</b>
(1) Base Year		2023
(2) In Service Year for Avoided Generation Unit		1-Jun-2029
(3) Winter Capacity	MW	234.6
(4) Base Year Avoided Generating Unit Cost (including transmission upgrade cost)	\$/KW	735.2
(5) Generator Cost Escalation Rate - 2023 to 2032		-1.09%
(5) Generator Cost Escalation Rate - 2033 to 2042		1.78%
(6) Generator Fixed O&M Cost (including non-escalating gas pipeline reservation cost)	\$/kw-year	77.3
(7) Generator Fixed O&M Cost Escalation Rate		2.50%
(8) Avoided Gen Unit Variable O&M Cost	c/Kwh	0.45
(9) Generator Variable O&M Cost Escalation Rate		2.50%
(10) Generator Capacity Factor		2.32%
(11) Avoided Generating Unit Fuel Cost	c/Kwh	5.82
(12) Avoided Generating Unit Fuel Escalation Rate		0.60%

<b>GT Brownfield- COMBUSTION TURBINE</b>		<b>Unit 2</b>
(1) Base Year		2023
(2) In Service Year for Avoided Generation Unit		1-Jun-2032
(3) Winter Capacity	MW	234.6
(4) Base Year Avoided Generating Unit Cost (including transmission upgrade cost)	\$/KW	735.2
(5) Generator Cost Escalation Rate - 2023 to 2032		-1.09%
(5) Generator Cost Escalation Rate - 2033 to 2042		1.78%
(6) Generator Fixed O&M Cost (including non-escalating gas pipeline reservation cost)	\$/kw-year	83.3
(7) Generator Fixed O&M Cost Escalation Rate		2.50%
(8) Avoided Gen Unit Variable O&M Cost	c/Kwh	0.48
(9) Generator Variable O&M Cost Escalation Rate		2.50%
(10) Generator Capacity Factor		2.32%
(11) Avoided Generating Unit Fuel Cost	c/Kwh	5.87
(12) Avoided Generating Unit Fuel Escalation Rate		0.60%

<b>GT Avg- COMBUSTION TURBINE</b>		<b>Units 3 and 4</b>
(1) Base Year		2023
(2) In Service Year for Avoided Generation Unit		1-Jun-2034
(3) Winter Capacity	MW	234.6
(4) Base Year Avoided Generating Unit Cost (including transmission upgrade cost)	\$/KW	949.4
(5) Generator Cost Escalation Rate - 2023 to 2032		-1.09%
(5) Generator Cost Escalation Rate - 2033 to 2042		1.78%
(6) Generator Fixed O&M Cost (including non-escalating gas pipeline reservation cost)	\$/kw-year	89.5
(7) Generator Fixed O&M Cost Escalation Rate		2.50%
(8) Avoided Gen Unit Variable O&M Cost	c/Kwh	0.52
(9) Generator Variable O&M Cost Escalation Rate		2.50%
(10) Generator Capacity Factor		2.32%
(11) Avoided Generating Unit Fuel Cost	c/Kwh	6.22
(12) Avoided Generating Unit Fuel Escalation Rate		0.60%

*Note: all the fixed cost, variable and fuel costs are nominal dollar value in the first year when Unit is in service*

**DUKE ENERGY FLORIDA'S  
PROJECTED TOTAL PORTFOLIO COSTS AND  
RESIDENTIAL RATE IMPACTS**

PROJECTED TOTAL PORTFOLIO COSTS AND RESIDENTIAL RATE IMPACTS - RIM, TRC, RECOMMENDED											
	\$/Millions										
	TOTAL	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
RIM Projected Total Costs	\$ 1,242.7	\$ 120.0	\$ 121.1	\$ 122.8	\$ 123.6	\$ 125.1	\$ 124.8	\$ 125.3	\$ 125.9	\$ 126.6	\$ 127.4
Residential Rate \$/1000 kWh	-	\$ 3.30	\$ 3.34	\$ 3.39	\$ 3.38	\$ 3.40	\$ 3.36	\$ 3.34	\$ 3.31	\$ 3.29	\$ 3.26
TRC Projected Total Costs	\$ 1,399.0	\$ 128.2	\$ 131.9	\$ 134.5	\$ 137.1	\$ 140.0	\$ 141.7	\$ 144.0	\$ 146.2	\$ 147.5	\$ 147.9
Residential Rate \$/1000 kWh	-	\$ 3.52	\$ 3.64	\$ 3.71	\$ 3.75	\$ 3.80	\$ 3.81	\$ 3.83	\$ 3.84	\$ 3.83	\$ 3.78
Difference in Total Costs	\$ 156.3	\$ 8.1	\$ 10.8	\$ 11.7	\$ 13.5	\$ 14.9	\$ 16.9	\$ 18.7	\$ 20.3	\$ 20.9	\$ 20.5
Difference in Res Rate \$/1000 kWh		0.22	0.30	0.32	0.37	0.40	0.46	0.50	0.53	0.54	0.52
Percent Difference TRC vs RIM	13%	7%	9%	9%	11%	12%	14%	15%	16%	16%	16%
RECOMMENDED Projected Total Costs	\$ 1,302.0	\$ 125.3	\$ 126.4	\$ 128.0	\$ 129.4	\$ 130.9	\$ 130.8	\$ 131.5	\$ 132.3	\$ 133.2	\$ 134.1
Residential Rate \$/1000 kWh		\$ 3.44	\$ 3.49	\$ 3.53	\$ 3.54	\$ 3.56	\$ 3.52	\$ 3.50	\$ 3.48	\$ 3.46	\$ 3.43
Difference in Total Costs	\$ 59.3	\$ 5.3	\$ 5.3	\$ 5.2	\$ 5.7	\$ 5.8	\$ 6.0	\$ 6.2	\$ 6.4	\$ 6.6	\$ 6.8
Difference in Res Rate \$/1000 kWh		0.14	0.15	0.14	0.16	0.16	0.16	0.17	0.17	0.17	0.17
Percent Difference RECOMMENDED vs RIM	5%	4%	4%	4%	5%	5%	5%	5%	5%	5%	5%
Difference in Total Costs	\$ 97.0	\$ 2.9	\$ 5.5	\$ 6.5	\$ 7.7	\$ 9.0	\$ 10.9	\$ 12.5	\$ 13.9	\$ 14.3	\$ 13.8
Difference in Res Rate \$/1000 kWh		0.08	0.15	0.18	0.21	0.25	0.29	0.33	0.36	0.37	0.35
Percent Difference TRC vs RECOMMENDED	7%	2%	4%	5%	6%	7%	8%	10%	11%	11%	10%

**RIM, TRC & PARTICIPANT TESTS BENEFITS & COST ANALYSIS FOR ALL PROGRAMS FOR ALL PORTFOLIOS**

PROGRAM: Residential Incentive Program		RIP							
Rate Impact Measure (RIM) Test									
	BENEFITS				COSTS				(9)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	TOTAL	AVOIDED	AVOIDED		UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2025	570	1,504	0	2,074	1,831	5,874	1,719	9,424	-7,351
2026	1,165	3,172	0	4,337	1,944	6,050	3,569	11,564	-7,227
2027	1,779	5,012	0	6,790	2,056	6,229	5,489	13,774	-6,984
2028	2,561	7,029	0	9,590	2,162	6,398	7,708	16,268	-6,678
2029	3,229	9,268	11,019	23,516	2,336	6,628	10,089	19,053	4,462
2030	3,794	11,363	13,164	28,320	2,248	5,717	12,398	20,363	7,957
2031	4,345	13,553	15,301	33,199	2,324	5,566	14,892	22,783	10,417
2032	4,916	15,844	15,726	36,486	2,404	5,428	17,644	25,476	11,010
2033	5,862	18,245	17,810	41,917	2,487	5,301	20,609	28,398	13,520
2034	6,953	20,763	23,245	50,961	2,573	5,186	23,599	31,358	19,604
2035	7,368	21,282	23,461	52,111	0	0	23,907	23,907	28,204
2036	7,900	21,814	23,681	53,394	0	0	24,573	24,573	28,822
2037	8,239	22,360	23,904	54,503	0	0	25,417	25,417	29,087
2038	8,642	22,919	24,132	55,693	0	0	25,811	25,811	29,882
2039	9,130	23,491	24,364	56,986	0	0	26,438	26,438	30,548
2040	9,229	24,072	24,593	57,895	0	0	26,892	26,892	31,002
2041	9,108	23,682	23,836	56,625	0	0	27,134	27,134	29,491
2042	9,501	23,212	23,017	55,730	0	0	27,523	27,523	28,207
2043	9,665	22,650	22,130	54,445	0	0	27,709	27,709	26,736
2044	9,826	21,999	21,180	53,006	0	0	27,882	27,882	25,124
2045	9,567	20,373	19,329	49,269	0	0	26,870	26,870	22,399
2046	9,260	18,834	17,610	45,704	0	0	25,746	25,746	19,959
2047	8,880	17,177	15,829	41,886	0	0	24,440	24,440	17,445
2048	8,420	15,394	13,983	37,797	0	0	22,943	22,943	14,853
2049	7,832	13,420	12,016	33,268	0	0	21,130	21,130	12,138
2050	7,185	11,459	10,113	28,757	0	0	19,193	19,193	9,564
2051	6,561	10,277	8,940	25,778	0	0	17,352	17,352	8,426
2052	5,805	8,945	7,669	22,419	0	0	15,201	15,201	7,217
2053	4,910	7,459	6,303	18,672	0	0	12,730	12,730	5,942
2054	3,858	5,801	4,831	14,490	0	0	9,904	9,904	4,586
2055	3,585	5,332	4,377	13,294	0	0	9,111	9,111	4,183
2056	3,273	4,816	3,898	11,987	0	0	8,237	8,237	3,750
2057	2,922	4,254	3,394	10,570	0	0	7,281	7,281	3,289
2058	2,535	3,651	2,871	9,056	0	0	6,252	6,252	2,804
2059	2,111	3,008	2,332	7,451	0	0	5,155	5,155	2,296
2060	1,704	2,402	1,836	5,941	0	0	4,119	4,119	1,822
2061	1,289	1,798	1,355	4,442	0	0	3,087	3,087	1,356
2062	868	1,197	889	2,954	0	0	2,057	2,057	897
2063	438	598	438	1,473	0	0	1,028	1,028	446
2064	0	0	0	0	0	0	0	0	0
NOMINAL	214,784	489,427	468,575	1,172,786	22,366	58,377	622,839	703,582	469,204
NPV	75,329	190,777	181,196	447,302	16,598	44,589	227,910	289,097	158,204
Utility Discount Rate = 6.83%									
Benefit Cost Ratio = 1.547									

PROGRAM:	Residential Incentive Program			RIP					
Total Resource Cost (TRC) Test									
	BENEFITS				COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	TOTAL	AVOIDED	AVOIDED		UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	PARTICIPANTS	TOTAL	NET	
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	COST	COSTS	BENEFITS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2025	570	1,504	0	2,074	1,831	11,167	12,998	-10,925	
2026	1,165	3,172	0	4,337	1,944	11,484	13,428	-9,091	
2027	1,779	5,012	0	6,790	2,056	11,811	13,868	-7,077	
2028	2,561	7,029	0	9,590	2,162	12,135	14,297	-4,707	
2029	3,229	9,268	11,019	23,516	2,336	12,624	14,960	8,556	
2030	3,794	11,363	13,164	28,320	2,248	11,160	13,408	14,912	
2031	4,345	13,553	15,301	33,199	2,324	11,001	13,325	19,874	
2032	4,916	15,844	15,726	36,486	2,404	10,864	13,268	23,218	
2033	5,862	18,245	17,810	41,917	2,487	10,748	13,236	28,682	
2034	6,953	20,763	23,245	50,961	2,573	10,654	13,227	37,735	
2035	7,368	21,282	23,461	52,111	0	0	0	52,111	
2036	7,900	21,814	23,681	53,394	0	0	0	53,394	
2037	8,239	22,360	23,904	54,503	0	0	0	54,503	
2038	8,642	22,919	24,132	55,693	0	0	0	55,693	
2039	9,130	23,491	24,364	56,986	0	0	0	56,986	
2040	9,229	24,072	24,593	57,895	0	0	0	57,895	
2041	9,108	23,682	23,836	56,625	0	0	0	56,625	
2042	9,501	23,212	23,017	55,730	0	0	0	55,730	
2043	9,665	22,650	22,130	54,445	0	0	0	54,445	
2044	9,826	21,999	21,180	53,006	0	0	0	53,006	
2045	9,567	20,373	19,329	49,269	0	0	0	49,269	
2046	9,260	18,834	17,610	45,704	0	0	0	45,704	
2047	8,880	17,177	15,829	41,886	0	0	0	41,886	
2048	8,420	15,394	13,983	37,797	0	0	0	37,797	
2049	7,832	13,420	12,016	33,268	0	0	0	33,268	
2050	7,185	11,459	10,113	28,757	0	0	0	28,757	
2051	6,561	10,277	8,940	25,778	0	0	0	25,778	
2052	5,805	8,945	7,669	22,419	0	0	0	22,419	
2053	4,910	7,459	6,303	18,672	0	0	0	18,672	
2054	3,858	5,801	4,831	14,490	0	0	0	14,490	
2055	3,585	5,332	4,377	13,294	0	0	0	13,294	
2056	3,273	4,816	3,898	11,987	0	0	0	11,987	
2057	2,922	4,254	3,394	10,570	0	0	0	10,570	
2058	2,535	3,651	2,871	9,056	0	0	0	9,056	
2059	2,111	3,008	2,332	7,451	0	0	0	7,451	
2060	1,704	2,402	1,836	5,941	0	0	0	5,941	
2061	1,289	1,798	1,355	4,442	0	0	0	4,442	
2062	868	1,197	889	2,954	0	0	0	2,954	
2063	438	598	438	1,473	0	0	0	1,473	
2064	0	0	0	0	0	0	0	0	
<b>NOMINAL</b>	<b>214,784</b>	<b>489,427</b>	<b>468,575</b>	<b>1,172,786</b>	<b>22,366</b>	<b>113,648</b>	<b>136,014</b>	<b>1,036,772</b>	
<b>NPV</b>	<b>75,329</b>	<b>190,777</b>	<b>181,196</b>	<b>447,302</b>	<b>16,598</b>	<b>86,388</b>	<b>102,986</b>	<b>344,315</b>	
Utility Discount Rate = 6.83%									
<b>Benefit Cost Ratio = 4.343</b>									

PROGRAM:	Residential Incentive Program			RIP				
<b>Participant Test</b>								
	BENEFITS				COSTS			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
	SAVINGS IN		OTHER					
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	TOTAL	NET	
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	COSTS	BENEFITS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2025	1,719	5,874	0	7,593	11,167	11,167	-3,574	
2026	3,569	6,050	0	9,619	11,484	11,484	-1,865	
2027	5,489	6,229	0	11,718	11,811	11,811	-93	
2028	7,708	6,398	0	14,107	12,135	12,135	1,972	
2029	10,089	6,628	0	16,717	12,624	12,624	4,093	
2030	12,398	5,717	0	18,115	11,160	11,160	6,955	
2031	14,892	5,566	0	20,458	11,001	11,001	9,457	
2032	17,644	5,428	0	23,072	10,864	10,864	12,208	
2033	20,609	5,301	0	25,910	10,748	10,748	15,162	
2034	23,599	5,186	0	28,785	10,654	10,654	18,131	
2035	23,907	0	0	23,907	0	0	23,907	
2036	24,573	0	0	24,573	0	0	24,573	
2037	25,417	0	0	25,417	0	0	25,417	
2038	25,811	0	0	25,811	0	0	25,811	
2039	26,438	0	0	26,438	0	0	26,438	
2040	26,892	0	0	26,892	0	0	26,892	
2041	27,134	0	0	27,134	0	0	27,134	
2042	27,523	0	0	27,523	0	0	27,523	
2043	27,709	0	0	27,709	0	0	27,709	
2044	27,882	0	0	27,882	0	0	27,882	
2045	26,870	0	0	26,870	0	0	26,870	
2046	25,746	0	0	25,746	0	0	25,746	
2047	24,440	0	0	24,440	0	0	24,440	
2048	22,943	0	0	22,943	0	0	22,943	
2049	21,130	0	0	21,130	0	0	21,130	
2050	19,193	0	0	19,193	0	0	19,193	
2051	17,352	0	0	17,352	0	0	17,352	
2052	15,201	0	0	15,201	0	0	15,201	
2053	12,730	0	0	12,730	0	0	12,730	
2054	9,904	0	0	9,904	0	0	9,904	
2055	9,111	0	0	9,111	0	0	9,111	
2056	8,237	0	0	8,237	0	0	8,237	
2057	7,281	0	0	7,281	0	0	7,281	
2058	6,252	0	0	6,252	0	0	6,252	
2059	5,155	0	0	5,155	0	0	5,155	
2060	4,119	0	0	4,119	0	0	4,119	
2061	3,087	0	0	3,087	0	0	3,087	
2062	2,057	0	0	2,057	0	0	2,057	
2063	1,028	0	0	1,028	0	0	1,028	
2064	0	0	0	0	0	0	0	
NOMINAL	622,839	58,377	0	681,216	113,648	113,648	567,568	
NPV	227,910	44,589	0	272,499	86,388	86,388	186,111	
Utility Discount Rate = 6.83%								
<b>Benefit Cost Ratio = 3.154</b>								

PROGRAM: Neighborhood Energy Saver      NES									
Rate Impact Measure (RIM) Test									
	BENEFITS				COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	TOTAL	AVOIDED	AVOIDED		UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2025	954	1,786	0	2,740	839	3,709	2,879	7,427	-4,687
2026	1,892	3,662	0	5,554	839	3,709	5,799	10,347	-4,793
2027	2,848	5,718	0	8,567	878	3,870	8,792	13,540	-4,974
2028	3,942	7,734	0	11,676	878	3,870	11,870	16,618	-4,942
2029	4,774	9,847	11,702	26,323	878	3,870	14,921	19,669	6,654
2030	5,485	12,045	13,948	31,478	878	3,871	17,933	22,681	8,797
2031	6,153	14,346	16,190	36,689	878	3,871	21,093	25,841	10,848
2032	6,805	16,747	16,614	40,165	878	3,871	24,428	29,177	10,989
2033	7,939	19,258	18,791	45,988	878	3,871	27,919	32,668	13,320
2034	9,221	21,885	24,491	55,597	878	3,871	31,303	36,052	19,545
2035	9,518	22,042	24,288	55,849	0	0	30,892	30,892	24,957
2036	9,918	22,140	24,025	56,083	0	0	30,859	30,859	25,225
2037	10,037	22,218	23,743	55,998	0	0	30,968	30,968	25,030
2038	10,297	22,465	23,645	56,407	0	0	30,759	30,759	25,648
2039	10,634	22,711	23,545	56,890	0	0	30,800	30,800	26,090
2040	10,520	22,962	23,449	56,932	0	0	30,660	30,660	26,272
2041	10,318	23,212	23,352	56,882	0	0	30,748	30,748	26,134
2042	10,723	23,468	23,262	57,453	0	0	31,070	31,070	26,383
2043	10,873	23,723	23,169	57,765	0	0	31,178	31,178	26,587
2044	11,019	23,977	23,074	58,070	0	0	31,274	31,274	26,796
2045	10,961	23,279	22,077	56,317	0	0	30,791	30,791	25,526
2046	10,909	22,603	21,125	54,637	0	0	30,334	30,334	24,303
2047	10,817	21,817	20,097	52,731	0	0	29,777	29,777	22,954
2048	10,705	20,978	19,046	50,729	0	0	29,173	29,173	21,556
2049	10,570	20,083	17,973	48,626	0	0	28,521	28,521	20,106
2050	10,433	19,147	16,891	46,471	0	0	27,872	27,872	18,599
2051	10,273	18,152	15,784	44,209	0	0	27,171	27,171	17,038
2052	10,087	17,095	14,653	41,835	0	0	26,415	26,415	15,420
2053	9,874	15,974	13,496	39,344	0	0	25,601	25,601	13,743
2054	9,633	14,787	12,313	36,732	0	0	24,728	24,728	12,004
2055	9,021	13,699	11,245	33,965	0	0	22,929	22,929	11,037
2056	8,353	12,548	10,154	31,055	0	0	21,020	21,020	10,035
2057	7,573	11,254	8,978	27,804	0	0	18,868	18,868	8,936
2058	6,726	9,887	7,775	24,389	0	0	16,591	16,591	7,797
2059	5,808	8,445	6,547	20,800	0	0	14,184	14,184	6,616
2060	4,814	6,925	5,292	17,032	0	0	11,641	11,641	5,391
2061	3,741	5,324	4,011	13,076	0	0	8,957	8,957	4,119
2062	2,584	3,638	2,702	8,924	0	0	6,126	6,126	2,798
2063	1,339	1,864	1,365	4,568	0	0	3,142	3,142	1,426
2064	0	0	0	0	0	0	0	0	0
<b>NOMINAL</b>	<b>308,090</b>	<b>609,447</b>	<b>568,813</b>	<b>1,486,351</b>	<b>8,700</b>	<b>38,384</b>	<b>879,983</b>	<b>927,067</b>	<b>559,284</b>
<b>NPV</b>	<b>101,472</b>	<b>214,022</b>	<b>200,159</b>	<b>515,652</b>	<b>6,563</b>	<b>28,959</b>	<b>305,692</b>	<b>341,214</b>	<b>174,439</b>
Utility Discount Rate = 6.83%									
<b>Benefit Cost Ratio = 1.511</b>									

PROGRAM: Neighborhood Energy Saver NES								
Total Resource Cost (TRC) Test								
	BENEFITS				COSTS			(8)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
	TOTAL	AVOIDED	AVOIDED		UTILITY			
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	PARTICIPANT'S	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	COST	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2025	954	1,786	0	2,740	839	9,982	10,821	-8,081
2026	1,892	3,662	0	5,554	839	9,982	10,821	-5,267
2027	2,848	5,718	0	8,567	878	10,451	11,329	-2,762
2028	3,942	7,734	0	11,676	878	10,451	11,329	347
2029	4,774	9,847	11,702	26,323	878	10,451	11,329	14,994
2030	5,485	12,045	13,948	31,478	878	10,451	11,329	20,149
2031	6,153	14,346	16,190	36,689	878	10,451	11,329	25,360
2032	6,805	16,747	16,614	40,165	878	10,452	11,329	28,836
2033	7,939	19,258	18,791	45,988	878	10,452	11,330	34,659
2034	9,221	21,885	24,491	55,597	878	10,452	11,330	44,267
2035	9,518	22,042	24,288	55,849	0	0	0	55,849
2036	9,918	22,140	24,025	56,083	0	0	0	56,083
2037	10,037	22,218	23,743	55,998	0	0	0	55,998
2038	10,297	22,465	23,645	56,407	0	0	0	56,407
2039	10,634	22,711	23,545	56,890	0	0	0	56,890
2040	10,520	22,962	23,449	56,932	0	0	0	56,932
2041	10,318	23,212	23,352	56,882	0	0	0	56,882
2042	10,723	23,468	23,262	57,453	0	0	0	57,453
2043	10,873	23,723	23,169	57,765	0	0	0	57,765
2044	11,019	23,977	23,074	58,070	0	0	0	58,070
2045	10,961	23,279	22,077	56,317	0	0	0	56,317
2046	10,909	22,603	21,125	54,637	0	0	0	54,637
2047	10,817	21,817	20,097	52,731	0	0	0	52,731
2048	10,705	20,978	19,046	50,729	0	0	0	50,729
2049	10,570	20,083	17,973	48,626	0	0	0	48,626
2050	10,433	19,147	16,891	46,471	0	0	0	46,471
2051	10,273	18,152	15,784	44,209	0	0	0	44,209
2052	10,087	17,095	14,653	41,835	0	0	0	41,835
2053	9,874	15,974	13,496	39,344	0	0	0	39,344
2054	9,633	14,787	12,313	36,732	0	0	0	36,732
2055	9,021	13,699	11,245	33,965	0	0	0	33,965
2056	8,353	12,548	10,154	31,055	0	0	0	31,055
2057	7,573	11,254	8,978	27,804	0	0	0	27,804
2058	6,726	9,887	7,775	24,389	0	0	0	24,389
2059	5,808	8,445	6,547	20,800	0	0	0	20,800
2060	4,814	6,925	5,292	17,032	0	0	0	17,032
2061	3,741	5,324	4,011	13,076	0	0	0	13,076
2062	2,584	3,638	2,702	8,924	0	0	0	8,924
2063	1,339	1,864	1,365	4,568	0	0	0	4,568
2064	0	0	0	0	0	0	0	0
NOMINAL	308,090	609,447	568,813	1,486,351	8,700	103,575	112,275	1,374,076
NPV	101,472	214,022	200,159	515,652	6,563	78,130	84,693	430,959
Utility Discount Rate = 6.83%								
Benefit Cost Ratio = 6.088								



<b>PROGRAM: Neighborhood Energy Saver</b>				<b>NES</b>				
<b>Participant Test</b>								
	<b>BENEFITS</b>				<b>COSTS</b>			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
	SAVINGS IN		OTHER					
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	TOTAL	NET	
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	COSTS	BENEFITS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2025	2,879	3,709	0	6,588	9,982	9,982	-3,394	
2026	5,799	3,709	0	9,508	9,982	9,982	-474	
2027	8,792	3,870	0	12,663	10,451	10,451	2,212	
2028	11,870	3,870	0	15,740	10,451	10,451	5,289	
2029	14,921	3,870	0	18,792	10,451	10,451	8,341	
2030	17,933	3,871	0	21,803	10,451	10,451	11,352	
2031	21,093	3,871	0	24,963	10,451	10,451	14,512	
2032	24,428	3,871	0	28,299	10,452	10,452	17,848	
2033	27,919	3,871	0	31,791	10,452	10,452	21,339	
2034	31,303	3,871	0	35,174	10,452	10,452	24,722	
2035	30,892	0	0	30,892	0	0	30,892	
2036	30,859	0	0	30,859	0	0	30,859	
2037	30,968	0	0	30,968	0	0	30,968	
2038	30,759	0	0	30,759	0	0	30,759	
2039	30,800	0	0	30,800	0	0	30,800	
2040	30,660	0	0	30,660	0	0	30,660	
2041	30,748	0	0	30,748	0	0	30,748	
2042	31,070	0	0	31,070	0	0	31,070	
2043	31,178	0	0	31,178	0	0	31,178	
2044	31,274	0	0	31,274	0	0	31,274	
2045	30,791	0	0	30,791	0	0	30,791	
2046	30,334	0	0	30,334	0	0	30,334	
2047	29,777	0	0	29,777	0	0	29,777	
2048	29,173	0	0	29,173	0	0	29,173	
2049	28,521	0	0	28,521	0	0	28,521	
2050	27,872	0	0	27,872	0	0	27,872	
2051	27,171	0	0	27,171	0	0	27,171	
2052	26,415	0	0	26,415	0	0	26,415	
2053	25,601	0	0	25,601	0	0	25,601	
2054	24,728	0	0	24,728	0	0	24,728	
2055	22,929	0	0	22,929	0	0	22,929	
2056	21,020	0	0	21,020	0	0	21,020	
2057	18,868	0	0	18,868	0	0	18,868	
2058	16,591	0	0	16,591	0	0	16,591	
2059	14,184	0	0	14,184	0	0	14,184	
2060	11,641	0	0	11,641	0	0	11,641	
2061	8,957	0	0	8,957	0	0	8,957	
2062	6,126	0	0	6,126	0	0	6,126	
2063	3,142	0	0	3,142	0	0	3,142	
2064	0	0	0	0	0	0	0	
<b>NOMINAL</b>	<b>879,983</b>	<b>38,384</b>	<b>0</b>	<b>918,367</b>	<b>103,575</b>	<b>103,575</b>	<b>814,792</b>	
<b>NPV</b>	<b>305,692</b>	<b>28,959</b>	<b>0</b>	<b>334,651</b>	<b>78,130</b>	<b>78,130</b>	<b>256,520</b>	
Utility Discount Rate = 6.83%								
<b>Benefit Cost Ratio = 4.283</b>								

PROGRAM: Low Income Weatherization Assistance					LIWAP				
Rate Impact Measure (RIM) Test									
	BENEFITS				COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	TOTAL	AVOIDED	AVOIDED		UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2025	82	130	0	213	162	267	248	677	-464
2026	163	267	0	431	162	267	500	929	-498
2027	243	412	0	655	163	268	749	1,181	-526
2028	337	558	0	895	163	268	1,015	1,446	-551
2029	409	711	845	1,966	163	268	1,278	1,710	256
2030	472	871	1,008	2,352	164	279	1,542	1,985	367
2031	531	1,039	1,172	2,741	164	279	1,818	2,261	480
2032	589	1,214	1,203	3,006	164	279	2,112	2,555	451
2033	684	1,382	1,347	3,413	155	263	2,405	2,823	590
2034	792	1,557	1,741	4,090	155	263	2,688	3,107	984
2035	828	1,583	1,743	4,154	0	0	2,686	2,686	1,468
2036	876	1,610	1,745	4,231	0	0	2,723	2,723	1,507
2037	900	1,636	1,747	4,282	0	0	2,776	2,776	1,506
2038	934	1,669	1,755	4,358	0	0	2,789	2,789	1,569
2039	976	1,703	1,764	4,443	0	0	2,826	2,826	1,617
2040	976	1,737	1,773	4,486	0	0	2,844	2,844	1,642
2041	968	1,772	1,781	4,522	0	0	2,884	2,884	1,637
2042	1,017	1,808	1,791	4,615	0	0	2,946	2,946	1,670
2043	1,042	1,845	1,800	4,687	0	0	2,988	2,988	1,699
2044	1,068	1,882	1,810	4,760	0	0	3,031	3,031	1,728
2045	1,098	1,907	1,807	4,811	0	0	3,083	3,083	1,728
2046	1,128	1,932	1,804	4,863	0	0	3,136	3,136	1,728
2047	1,158	1,956	1,801	4,915	0	0	3,187	3,187	1,727
2048	1,189	1,981	1,797	4,967	0	0	3,240	3,240	1,727
2049	1,220	2,005	1,794	5,019	0	0	3,293	3,293	1,726
2050	1,255	2,032	1,791	5,078	0	0	3,353	3,353	1,725
2051	1,291	2,058	1,789	5,138	0	0	3,414	3,414	1,723
2052	1,329	2,085	1,786	5,200	0	0	3,479	3,479	1,721
2053	1,377	2,137	1,805	5,319	0	0	3,569	3,569	1,749
2054	1,426	2,190	1,824	5,440	0	0	3,661	3,661	1,779
2055	1,330	2,021	1,659	5,009	0	0	3,381	3,381	1,629
2056	1,225	1,841	1,490	4,556	0	0	3,083	3,083	1,473
2057	1,111	1,651	1,317	4,079	0	0	2,767	2,767	1,312
2058	986	1,451	1,141	3,578	0	0	2,433	2,433	1,145
2059	852	1,239	961	3,051	0	0	2,080	2,080	971
2060	706	1,016	777	2,499	0	0	1,707	1,707	791
2061	549	781	588	1,918	0	0	1,314	1,314	605
2062	379	534	396	1,309	0	0	898	898	411
2063	196	274	200	670	0	0	461	461	209
2064	0	0	0	0	0	0	0	0	0
NOMINAL	33,690	56,476	51,552	141,719	1,618	2,701	94,390	98,709	43,010
NPV	9,961	17,486	16,199	43,646	1,226	2,041	29,574	32,841	10,805
Utility Discount Rate = 6.83%									
Benefit Cost Ratio = 1.329									

PROGRAM: Low Income Weatherization Assistance					LIWAP			
Total Resource Cost (TRC) Test								
	BENEFITS				COSTS			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
	TOTAL	AVOIDED	AVOIDED		UTILITY			
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	PARTICIPANT'S	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	COST	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2025	82	130	0	213	162	577	739	-526
2026	163	267	0	431	162	577	739	-308
2027	243	412	0	655	163	581	744	-89
2028	337	558	0	895	163	581	744	151
2029	409	711	845	1,966	163	581	744	1,221
2030	472	871	1,008	2,352	164	591	756	1,596
2031	531	1,039	1,172	2,741	164	591	756	1,986
2032	589	1,214	1,203	3,006	164	591	756	2,250
2033	684	1,382	1,347	3,413	155	529	685	2,728
2034	792	1,557	1,741	4,090	155	529	685	3,405
2035	828	1,583	1,743	4,154	0	0	0	4,154
2036	876	1,610	1,745	4,231	0	0	0	4,231
2037	900	1,636	1,747	4,282	0	0	0	4,282
2038	934	1,669	1,755	4,358	0	0	0	4,358
2039	976	1,703	1,764	4,443	0	0	0	4,443
2040	976	1,737	1,773	4,486	0	0	0	4,486
2041	968	1,772	1,781	4,522	0	0	0	4,522
2042	1,017	1,808	1,791	4,615	0	0	0	4,615
2043	1,042	1,845	1,800	4,687	0	0	0	4,687
2044	1,068	1,882	1,810	4,760	0	0	0	4,760
2045	1,098	1,907	1,807	4,811	0	0	0	4,811
2046	1,128	1,932	1,804	4,863	0	0	0	4,863
2047	1,158	1,956	1,801	4,915	0	0	0	4,915
2048	1,189	1,981	1,797	4,967	0	0	0	4,967
2049	1,220	2,005	1,794	5,019	0	0	0	5,019
2050	1,255	2,032	1,791	5,078	0	0	0	5,078
2051	1,291	2,058	1,789	5,138	0	0	0	5,138
2052	1,329	2,085	1,786	5,200	0	0	0	5,200
2053	1,377	2,137	1,805	5,319	0	0	0	5,319
2054	1,426	2,190	1,824	5,440	0	0	0	5,440
2055	1,330	2,021	1,659	5,009	0	0	0	5,009
2056	1,225	1,841	1,490	4,556	0	0	0	4,556
2057	1,111	1,651	1,317	4,079	0	0	0	4,079
2058	986	1,451	1,141	3,578	0	0	0	3,578
2059	852	1,239	961	3,051	0	0	0	3,051
2060	706	1,016	777	2,499	0	0	0	2,499
2061	549	781	588	1,918	0	0	0	1,918
2062	379	534	396	1,309	0	0	0	1,309
2063	196	274	200	670	0	0	0	670
2064	0	0	0	0	0	0	0	0
NOMINAL	33,690	56,476	51,552	141,719	1,618	5,728	7,346	134,372
NPV	9,961	17,486	16,199	43,646	1,226	4,346	5,573	38,073
Utility Discount Rate = 6.83%								
Benefit Cost Ratio = 7.832								

<b>PROGRAM: Low Income Weatherization Assistance</b>					<b>LIWAP</b>		
<b>Participant Test</b>							
	<b>BENEFITS</b>				<b>COSTS</b>		<b>(7)</b>
	<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>	<b>(5)</b>	<b>(6)</b>	
	SAVINGS IN PARTICIPANT'S BILL	INCENTIVE PAYMENTS	OTHER PARTICIPANT'S BENEFITS	TOTAL BENEFITS	PARTICIPANT'S COST	TOTAL COSTS	NET BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2025	248	267	0	515	577	577	-61
2026	500	267	0	767	577	577	190
2027	749	268	0	1,017	581	581	437
2028	1,015	268	0	1,283	581	581	702
2029	1,278	268	0	1,546	581	581	966
2030	1,542	279	0	1,821	591	591	1,229
2031	1,818	279	0	2,097	591	591	1,506
2032	2,112	279	0	2,391	591	591	1,800
2033	2,405	263	0	2,668	529	529	2,139
2034	2,688	263	0	2,951	529	529	2,422
2035	2,686	0	0	2,686	0	0	2,686
2036	2,723	0	0	2,723	0	0	2,723
2037	2,776	0	0	2,776	0	0	2,776
2038	2,789	0	0	2,789	0	0	2,789
2039	2,826	0	0	2,826	0	0	2,826
2040	2,844	0	0	2,844	0	0	2,844
2041	2,884	0	0	2,884	0	0	2,884
2042	2,946	0	0	2,946	0	0	2,946
2043	2,988	0	0	2,988	0	0	2,988
2044	3,031	0	0	3,031	0	0	3,031
2045	3,083	0	0	3,083	0	0	3,083
2046	3,136	0	0	3,136	0	0	3,136
2047	3,187	0	0	3,187	0	0	3,187
2048	3,240	0	0	3,240	0	0	3,240
2049	3,293	0	0	3,293	0	0	3,293
2050	3,353	0	0	3,353	0	0	3,353
2051	3,414	0	0	3,414	0	0	3,414
2052	3,479	0	0	3,479	0	0	3,479
2053	3,569	0	0	3,569	0	0	3,569
2054	3,661	0	0	3,661	0	0	3,661
2055	3,381	0	0	3,381	0	0	3,381
2056	3,083	0	0	3,083	0	0	3,083
2057	2,767	0	0	2,767	0	0	2,767
2058	2,433	0	0	2,433	0	0	2,433
2059	2,080	0	0	2,080	0	0	2,080
2060	1,707	0	0	1,707	0	0	1,707
2061	1,314	0	0	1,314	0	0	1,314
2062	898	0	0	898	0	0	898
2063	461	0	0	461	0	0	461
2064	0	0	0	0	0	0	0
<b>NOMINAL</b>	<b>94,390</b>	<b>2,701</b>	<b>0</b>	<b>97,091</b>	<b>5,728</b>	<b>5,728</b>	<b>91,363</b>
<b>NPV</b>	<b>29,574</b>	<b>2,041</b>	<b>0</b>	<b>31,615</b>	<b>4,346</b>	<b>4,346</b>	<b>27,268</b>
Utility Discount Rate = 6.83%							
Benefit Cost Ratio = 7.274							

<b>PROGRAM: Better Business</b>		<b>BB</b>								
<b>Rate Impact Measure (RIM) Test</b>										
	<b>BENEFITS</b>				<b>COSTS</b>					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		(9)
	TOTAL	AVOIDED	AVOIDED		UTILITY					
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET	
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2025	208	518	0	726	1,234	577	560	2,370	-1,645	
2026	431	1,110	0	1,541	1,338	594	1,168	3,099	-1,558	
2027	667	1,787	0	2,454	1,455	615	1,816	3,886	-1,432	
2028	976	2,560	0	3,537	1,585	642	2,574	4,801	-1,264	
2029	1,247	3,442	4,087	8,776	1,729	674	3,374	5,777	2,999	
2030	1,467	4,245	4,911	10,623	1,603	641	4,098	6,341	4,281	
2031	1,640	4,955	5,587	12,182	1,390	606	4,746	6,741	5,440	
2032	1,786	5,594	5,545	12,925	1,215	572	5,362	7,149	5,775	
2033	2,036	6,177	6,022	14,235	1,071	542	5,929	7,543	6,692	
2034	2,299	6,718	7,511	16,528	952	519	6,382	7,852	8,676	
2035	2,345	6,451	7,101	15,897	0	0	6,137	6,137	9,759	
2036	2,408	6,123	6,638	15,170	0	0	5,994	5,994	9,176	
2037	2,392	5,727	6,115	14,234	0	0	5,870	5,870	8,364	
2038	2,372	5,254	5,525	13,151	0	0	5,557	5,557	7,594	
2039	2,349	4,692	4,860	11,902	0	0	5,278	5,278	6,624	
2040	2,101	4,029	4,111	10,240	0	0	4,685	4,685	5,555	
2041	1,846	3,442	3,459	8,747	0	0	4,169	4,169	4,578	
2042	1,687	2,901	2,872	7,460	0	0	3,680	3,680	3,780	
2043	1,465	2,381	2,324	6,170	0	0	3,130	3,130	3,040	
2044	1,218	1,865	1,793	4,877	0	0	2,550	2,550	2,327	
2045	991	1,501	1,422	3,913	0	0	2,034	2,034	1,879	
2046	770	1,155	1,078	3,003	0	0	1,551	1,551	1,452	
2047	554	824	758	2,136	0	0	1,094	1,094	1,042	
2048	332	491	446	1,269	0	0	643	643	627	
2049	113	169	151	433	0	0	211	211	222	
2050	103	153	135	390	0	0	189	189	202	
2051	90	134	116	341	0	0	163	163	178	
2052	76	112	96	283	0	0	134	134	149	
2053	62	90	76	228	0	0	107	107	121	
2054	47	69	58	174	0	0	81	81	93	
2055	32	48	39	119	0	0	54	54	65	
2056	17	26	21	64	0	0	29	29	36	
2057	2	4	4	10	0	0	3	3	7	
2058	2	4	3	9	0	0	3	3	6	
2059	1	4	3	8	0	0	2	2	5	
2060	1	3	2	7	0	0	2	2	5	
2061	1	3	2	6	0	0	1	1	4	
2062	1	2	2	5	0	0	1	1	4	
2063	0	2	1	4	0	0	0	0	3	
2064	0	0	0	0	0	0	0	0	0	
<b>NOMINAL</b>	<b>36,133</b>	<b>84,766</b>	<b>82,874</b>	<b>203,773</b>	<b>13,571</b>	<b>5,982</b>	<b>89,359</b>	<b>108,912</b>	<b>94,861</b>	
<b>NPV</b>	<b>17,617</b>	<b>44,115</b>	<b>41,452</b>	<b>103,183</b>	<b>10,397</b>	<b>4,550</b>	<b>45,210</b>	<b>60,157</b>	<b>43,026</b>	
Utility Discount Rate = 6.83%										
<b>Benefit Cost Ratio = 1.715</b>										

PROGRAM: Better Business				BB					
Total Resource Cost (TRC) Test									
BENEFITS				COSTS					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	TOTAL	AVOIDED	AVOIDED		UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	PARTICIPANT'S	TOTAL	NET	
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	COST	COSTS	BENEFITS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2025	208	518	0	726	1,234	4,190	5,423	-4,697	
2026	431	1,110	0	1,541	1,338	4,477	5,815	-4,274	
2027	667	1,787	0	2,454	1,455	4,803	6,258	-3,804	
2028	976	2,560	0	3,537	1,585	5,172	6,757	-3,220	
2029	1,247	3,442	4,087	8,776	1,729	5,589	7,318	1,458	
2030	1,467	4,245	4,911	10,623	1,603	5,800	7,403	3,219	
2031	1,640	4,955	5,587	12,182	1,390	5,316	6,706	5,476	
2032	1,786	5,594	5,545	12,925	1,215	4,877	6,092	6,832	
2033	2,036	6,177	6,022	14,235	1,071	4,479	5,550	8,684	
2034	2,299	6,718	7,511	16,528	952	4,126	5,078	11,450	
2035	2,345	6,451	7,101	15,897	0	0	0	15,897	
2036	2,408	6,123	6,638	15,170	0	0	0	15,170	
2037	2,392	5,727	6,115	14,234	0	0	0	14,234	
2038	2,372	5,254	5,525	13,151	0	0	0	13,151	
2039	2,349	4,692	4,860	11,902	0	0	0	11,902	
2040	2,101	4,029	4,111	10,240	0	0	0	10,240	
2041	1,846	3,442	3,459	8,747	0	0	0	8,747	
2042	1,687	2,901	2,872	7,460	0	0	0	7,460	
2043	1,465	2,381	2,324	6,170	0	0	0	6,170	
2044	1,218	1,865	1,793	4,877	0	0	0	4,877	
2045	991	1,501	1,422	3,913	0	0	0	3,913	
2046	770	1,155	1,078	3,003	0	0	0	3,003	
2047	554	824	758	2,136	0	0	0	2,136	
2048	332	491	446	1,269	0	0	0	1,269	
2049	113	169	151	433	0	0	0	433	
2050	103	153	135	390	0	0	0	390	
2051	90	134	116	341	0	0	0	341	
2052	76	112	96	283	0	0	0	283	
2053	62	90	76	228	0	0	0	228	
2054	47	69	58	174	0	0	0	174	
2055	32	48	39	119	0	0	0	119	
2056	17	26	21	64	0	0	0	64	
2057	2	4	4	10	0	0	0	10	
2058	2	4	3	9	0	0	0	9	
2059	1	4	3	8	0	0	0	8	
2060	1	3	2	7	0	0	0	7	
2061	1	3	2	6	0	0	0	6	
2062	1	2	2	5	0	0	0	5	
2063	0	2	1	4	0	0	0	4	
2064	0	0	0	0	0	0	0	0	
NOMINAL	36,133	84,766	82,874	203,773	13,571	48,829	62,400	141,373	
NPV	17,617	44,115	41,452	103,183	10,397	36,855	47,252	55,931	
Utility Discount Rate = 6.83%									
Benefit Cost Ratio = 2.184									

PROGRAM: Better Business			BB				
Participant Test							
BENEFITS				COSTS			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	SAVINGS IN		OTHER				
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	TOTAL	NET
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2025	560	577	0	1,137	4,190	4,190	-3,053
2026	1,168	594	0	1,761	4,477	4,477	-2,716
2027	1,816	615	0	2,431	4,803	4,803	-2,372
2028	2,574	642	0	3,216	5,172	5,172	-1,956
2029	3,374	674	0	4,048	5,589	5,589	-1,541
2030	4,098	641	0	4,739	5,800	5,800	-1,062
2031	4,746	606	0	5,352	5,316	5,316	35
2032	5,362	572	0	5,934	4,877	4,877	1,057
2033	5,929	542	0	6,471	4,479	4,479	1,992
2034	6,382	519	0	6,901	4,126	4,126	2,774
2035	6,137	0	0	6,137	0	0	6,137
2036	5,994	0	0	5,994	0	0	5,994
2037	5,870	0	0	5,870	0	0	5,870
2038	5,557	0	0	5,557	0	0	5,557
2039	5,278	0	0	5,278	0	0	5,278
2040	4,685	0	0	4,685	0	0	4,685
2041	4,169	0	0	4,169	0	0	4,169
2042	3,680	0	0	3,680	0	0	3,680
2043	3,130	0	0	3,130	0	0	3,130
2044	2,550	0	0	2,550	0	0	2,550
2045	2,034	0	0	2,034	0	0	2,034
2046	1,551	0	0	1,551	0	0	1,551
2047	1,094	0	0	1,094	0	0	1,094
2048	643	0	0	643	0	0	643
2049	211	0	0	211	0	0	211
2050	189	0	0	189	0	0	189
2051	163	0	0	163	0	0	163
2052	134	0	0	134	0	0	134
2053	107	0	0	107	0	0	107
2054	81	0	0	81	0	0	81
2055	54	0	0	54	0	0	54
2056	29	0	0	29	0	0	29
2057	3	0	0	3	0	0	3
2058	3	0	0	3	0	0	3
2059	2	0	0	2	0	0	2
2060	2	0	0	2	0	0	2
2061	1	0	0	1	0	0	1
2062	1	0	0	1	0	0	1
2063	0	0	0	0	0	0	0
2064	0	0	0	0	0	0	0
<b>NOMINAL</b>	<b>89,359</b>	<b>5,982</b>	<b>0</b>	<b>95,341</b>	<b>48,829</b>	<b>48,829</b>	<b>46,512</b>
<b>NPV</b>	<b>45,210</b>	<b>4,550</b>	<b>0</b>	<b>49,760</b>	<b>36,855</b>	<b>36,855</b>	<b>12,905</b>
Utility Discount Rate = 6.83%							
<b>Benefit Cost Ratio = 1.350</b>							

PROGRAM: Residential Load Management					EWH				
Rate Impact Measure (RIM) Test									
	BENEFITS				COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	TOTAL	AVOIDED	AVOIDED		UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2025	0	0	0	0	739	182	0	922	-922
2026	0	0	0	0	1,023	365	0	1,388	-1,388
2027	0	0	0	0	1,321	547	0	1,868	-1,868
2028	0	0	0	0	1,633	729	0	2,362	-2,362
2029	0	0	5,338	5,338	1,960	911	0	2,871	2,467
2030	0	0	6,398	6,398	2,302	1,094	0	3,396	3,003
2031	0	0	7,456	7,456	2,660	1,276	0	3,936	3,520
2032	0	0	7,678	7,678	3,034	1,458	0	4,493	3,186
2033	0	0	8,708	8,708	3,426	1,641	0	5,066	3,642
2034	0	0	11,375	11,375	3,835	1,823	0	5,658	5,717
2035	0	0	11,480	11,480	3,316	1,823	0	5,139	6,341
2036	0	0	11,588	11,588	3,399	1,823	0	5,222	6,366
2037	0	0	11,697	11,697	3,484	1,823	0	5,307	6,390
2038	0	0	11,809	11,809	3,571	1,823	0	5,394	6,415
2039	0	0	11,922	11,922	3,661	1,823	0	5,483	6,439
2040	0	0	12,038	12,038	3,752	1,823	0	5,575	6,463
2041	0	0	12,156	12,156	3,846	1,823	0	5,669	6,487
2042	0	0	12,276	12,276	3,942	1,823	0	5,765	6,511
2043	0	0	12,398	12,398	4,041	1,823	0	5,863	6,534
2044	0	0	12,522	12,522	4,142	1,823	0	5,964	6,558
2045	0	0	12,649	12,649	4,245	1,823	0	6,068	6,581
2046	0	0	12,778	12,778	4,351	1,823	0	6,174	6,604
2047	0	0	12,909	12,909	4,460	1,823	0	6,283	6,626
2048	0	0	13,043	13,043	4,572	1,823	0	6,394	6,649
2049	0	0	13,179	13,179	4,686	1,823	0	6,509	6,671
2050	0	0	11,985	11,985	4,323	1,641	0	5,963	6,022
2051	0	0	10,765	10,765	3,938	1,458	0	5,397	5,368
2052	0	0	9,518	9,518	3,532	1,276	0	4,808	4,709
2053	0	0	8,243	8,243	3,103	1,094	0	4,197	4,046
2054	0	0	6,941	6,941	2,651	911	0	3,562	3,379
2055	0	0	5,611	5,611	2,174	729	0	2,903	2,708
2056	0	0	4,252	4,252	1,671	547	0	2,218	2,034
2057	0	0	2,864	2,864	1,142	365	0	1,506	1,358
2058	0	0	1,447	1,447	585	182	0	767	680
2059	0	0	0	0	0	0	0	0	0
2060	0	0	0	0	0	0	0	0	0
2061	0	0	0	0	0	0	0	0	0
2062	0	0	0	0	0	0	0	0	0
2063	0	0	0	0	0	0	0	0	0
2064	0	0	0	0	0	0	0	0	0
NOMINAL	0	0	293,024	293,024	104,521	45,571	0	150,093	142,931
NPV	0	0	101,654	101,654	38,456	17,428	0	55,884	45,770

Utility Discount Rate = 6.83%

**Benefit Cost Ratio = 1.819**



PROGRAM: Residential Load Management					EWH				
Total Resource Cost (TRC) Test									
	BENEFITS				COSTS			(8)	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)		
	TOTAL	AVOIDED	AVOIDED		UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	PARTICIPANTS	TOTAL	NET	
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	COST	COSTS	BENEFITS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2025	0	0	0	0	739	0	739	-739	
2026	0	0	0	0	1,023	0	1,023	-1,023	
2027	0	0	0	0	1,321	0	1,321	-1,321	
2028	0	0	0	0	1,633	0	1,633	-1,633	
2029	0	0	5,338	5,338	1,960	0	1,960	3,378	
2030	0	0	6,398	6,398	2,302	0	2,302	4,096	
2031	0	0	7,456	7,456	2,660	0	2,660	4,796	
2032	0	0	7,678	7,678	3,034	0	3,034	4,644	
2033	0	0	8,708	8,708	3,426	0	3,426	5,282	
2034	0	0	11,375	11,375	3,835	0	3,835	7,539	
2035	0	0	11,480	11,480	3,316	0	3,316	8,164	
2036	0	0	11,588	11,588	3,399	0	3,399	8,188	
2037	0	0	11,697	11,697	3,484	0	3,484	8,213	
2038	0	0	11,809	11,809	3,571	0	3,571	8,237	
2039	0	0	11,922	11,922	3,661	0	3,661	8,262	
2040	0	0	12,038	12,038	3,752	0	3,752	8,286	
2041	0	0	12,156	12,156	3,846	0	3,846	8,310	
2042	0	0	12,276	12,276	3,942	0	3,942	8,334	
2043	0	0	12,398	12,398	4,041	0	4,041	8,357	
2044	0	0	12,522	12,522	4,142	0	4,142	8,380	
2045	0	0	12,649	12,649	4,245	0	4,245	8,404	
2046	0	0	12,778	12,778	4,351	0	4,351	8,427	
2047	0	0	12,909	12,909	4,460	0	4,460	8,449	
2048	0	0	13,043	13,043	4,572	0	4,572	8,471	
2049	0	0	13,179	13,179	4,686	0	4,686	8,493	
2050	0	0	11,985	11,985	4,323	0	4,323	7,663	
2051	0	0	10,765	10,765	3,938	0	3,938	6,826	
2052	0	0	9,518	9,518	3,532	0	3,532	5,985	
2053	0	0	8,243	8,243	3,103	0	3,103	5,140	
2054	0	0	6,941	6,941	2,651	0	2,651	4,290	
2055	0	0	5,611	5,611	2,174	0	2,174	3,437	
2056	0	0	4,252	4,252	1,671	0	1,671	2,581	
2057	0	0	2,864	2,864	1,142	0	1,142	1,723	
2058	0	0	1,447	1,447	585	0	585	862	
2059	0	0	0	0	0	0	0	0	
2060	0	0	0	0	0	0	0	0	
2061	0	0	0	0	0	0	0	0	
2062	0	0	0	0	0	0	0	0	
2063	0	0	0	0	0	0	0	0	
2064	0	0	0	0	0	0	0	0	
NOMINAL	0	0	293,024	293,024	104,521	0	104,521	188,503	
NPV	0	0	101,654	101,654	38,456	0	38,456	63,198	
Utility Discount Rate = 6.83%									
<b>Benefit Cost Ratio = 2.643</b>									

PROGRAM: Residential Load Management					EWH			
Participant Test								
YEAR	BENEFITS				COSTS		NET BENEFITS	
	(1)	(2)	(3)	(4)	(5)	(6)		(7)
	SAVINGS IN PARTICIPANT'S BILL	INCENTIVE PAYMENTS	OTHER PARTICIPANT'S BENEFITS	TOTAL BENEFITS	PARTICIPANT'S COST	TOTAL COSTS		
	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)		\$(000)
2025	0	182	0	182	0	0	182	
2026	0	365	0	365	0	0	365	
2027	0	547	0	547	0	0	547	
2028	0	729	0	729	0	0	729	
2029	0	911	0	911	0	0	911	
2030	0	1,094	0	1,094	0	0	1,094	
2031	0	1,276	0	1,276	0	0	1,276	
2032	0	1,458	0	1,458	0	0	1,458	
2033	0	1,641	0	1,641	0	0	1,641	
2034	0	1,823	0	1,823	0	0	1,823	
2035	0	1,823	0	1,823	0	0	1,823	
2036	0	1,823	0	1,823	0	0	1,823	
2037	0	1,823	0	1,823	0	0	1,823	
2038	0	1,823	0	1,823	0	0	1,823	
2039	0	1,823	0	1,823	0	0	1,823	
2040	0	1,823	0	1,823	0	0	1,823	
2041	0	1,823	0	1,823	0	0	1,823	
2042	0	1,823	0	1,823	0	0	1,823	
2043	0	1,823	0	1,823	0	0	1,823	
2044	0	1,823	0	1,823	0	0	1,823	
2045	0	1,823	0	1,823	0	0	1,823	
2046	0	1,823	0	1,823	0	0	1,823	
2047	0	1,823	0	1,823	0	0	1,823	
2048	0	1,823	0	1,823	0	0	1,823	
2049	0	1,823	0	1,823	0	0	1,823	
2050	0	1,641	0	1,641	0	0	1,641	
2051	0	1,458	0	1,458	0	0	1,458	
2052	0	1,276	0	1,276	0	0	1,276	
2053	0	1,094	0	1,094	0	0	1,094	
2054	0	911	0	911	0	0	911	
2055	0	729	0	729	0	0	729	
2056	0	547	0	547	0	0	547	
2057	0	365	0	365	0	0	365	
2058	0	182	0	182	0	0	182	
2059	0	0	0	0	0	0	0	
2060	0	0	0	0	0	0	0	
2061	0	0	0	0	0	0	0	
2062	0	0	0	0	0	0	0	
2063	0	0	0	0	0	0	0	
2064	0	0	0	0	0	0	0	
<b>NOMINAL</b>	0	45,571	0	45,571	0	0	45,571	
<b>NPV</b>	0	17,428	0	17,428	0	0	17,428	
Utility Discount Rate = 6.83%								
<b>Benefit Cost Ratio = 9999</b>								

PROGRAM:	Interruptible Service DR			IS						
Rate Impact Measure (RIM) Test										
	BENEFITS				COSTS					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	TOTAL	AVOIDED	AVOIDED		UTILITY					
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET	
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2025	0	0	0	0	37	147	0	184	-184	
2026	0	0	0	0	46	294	0	340	-340	
2027	0	0	0	0	55	441	0	496	-496	
2028	0	0	0	0	65	588	0	653	-653	
2029	0	0	1,115	1,115	76	734	0	810	305	
2030	0	0	1,337	1,337	87	881	0	968	369	
2031	0	0	1,558	1,558	98	1,028	0	1,126	431	
2032	0	0	1,604	1,604	110	1,175	0	1,285	319	
2033	0	0	1,819	1,819	122	1,322	0	1,445	375	
2034	0	0	2,376	2,376	135	1,469	0	1,604	772	
2035	0	0	2,398	2,398	102	1,469	0	1,571	827	
2036	0	0	2,421	2,421	105	1,469	0	1,574	847	
2037	0	0	2,444	2,444	107	1,469	0	1,576	867	
2038	0	0	2,467	2,467	110	1,469	0	1,579	888	
2039	0	0	2,491	2,491	113	1,469	0	1,582	909	
2040	0	0	2,515	2,515	116	1,469	0	1,585	930	
2041	0	0	2,539	2,539	118	1,469	0	1,587	952	
2042	0	0	2,564	2,564	121	1,469	0	1,590	974	
2043	0	0	2,590	2,590	124	1,469	0	1,593	997	
2044	0	0	2,616	2,616	128	1,469	0	1,596	1,019	
2045	0	0	2,642	2,642	131	1,469	0	1,600	1,043	
2046	0	0	2,669	2,669	134	1,469	0	1,603	1,066	
2047	0	0	2,697	2,697	137	1,469	0	1,606	1,090	
2048	0	0	2,725	2,725	141	1,469	0	1,610	1,115	
2049	0	0	2,753	2,753	144	1,469	0	1,613	1,140	
2050	0	0	2,504	2,504	133	1,322	0	1,455	1,049	
2051	0	0	2,249	2,249	121	1,175	0	1,296	952	
2052	0	0	1,988	1,988	109	1,028	0	1,137	851	
2053	0	0	1,722	1,722	96	881	0	977	745	
2054	0	0	1,450	1,450	82	734	0	816	634	
2055	0	0	1,172	1,172	67	588	0	655	518	
2056	0	0	888	888	51	441	0	492	396	
2057	0	0	598	598	35	294	0	329	269	
2058	0	0	302	302	18	147	0	165	137	
2059	0	0	0	0	0	0	0	0	0	
2060	0	0	0	0	0	0	0	0	0	
2061	0	0	0	0	0	0	0	0	0	
2062	0	0	0	0	0	0	0	0	0	
2063	0	0	0	0	0	0	0	0	0	
2064	0	0	0	0	0	0	0	0	0	
NOMINAL	0	0	61,214	61,214	3,374	36,725	0	40,098	21,115	
NPV	0	0	21,236	21,236	1,300	14,045	0	15,345	5,891	
Utility Discount Rate = 6.83%										
Benefit Cost Ratio = 1.384										

PROGRAM:	Interruptible Service DR			IS					
Total Resource Cost (TRC) Test									
	BENEFITS				COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	TOTAL	AVOIDED	AVOIDED		UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	PARTICIPANT'S	TOTAL	NET	
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	COST	COSTS	BENEFITS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2025	0	0	0	0	37	0	37	-37	
2026	0	0	0	0	46	0	46	-46	
2027	0	0	0	0	55	0	55	-55	
2028	0	0	0	0	65	0	65	-65	
2029	0	0	1,115	1,115	76	0	76	1,039	
2030	0	0	1,337	1,337	87	0	87	1,250	
2031	0	0	1,558	1,558	98	0	98	1,460	
2032	0	0	1,604	1,604	110	0	110	1,494	
2033	0	0	1,819	1,819	122	0	122	1,697	
2034	0	0	2,376	2,376	135	0	135	2,241	
2035	0	0	2,398	2,398	102	0	102	2,296	
2036	0	0	2,421	2,421	105	0	105	2,316	
2037	0	0	2,444	2,444	107	0	107	2,336	
2038	0	0	2,467	2,467	110	0	110	2,357	
2039	0	0	2,491	2,491	113	0	113	2,378	
2040	0	0	2,515	2,515	116	0	116	2,399	
2041	0	0	2,539	2,539	118	0	118	2,421	
2042	0	0	2,564	2,564	121	0	121	2,443	
2043	0	0	2,590	2,590	124	0	124	2,466	
2044	0	0	2,616	2,616	128	0	128	2,488	
2045	0	0	2,642	2,642	131	0	131	2,512	
2046	0	0	2,669	2,669	134	0	134	2,535	
2047	0	0	2,697	2,697	137	0	137	2,559	
2048	0	0	2,725	2,725	141	0	141	2,584	
2049	0	0	2,753	2,753	144	0	144	2,609	
2050	0	0	2,504	2,504	133	0	133	2,371	
2051	0	0	2,249	2,249	121	0	121	2,128	
2052	0	0	1,988	1,988	109	0	109	1,880	
2053	0	0	1,722	1,722	96	0	96	1,627	
2054	0	0	1,450	1,450	82	0	82	1,368	
2055	0	0	1,172	1,172	67	0	67	1,105	
2056	0	0	888	888	51	0	51	837	
2057	0	0	598	598	35	0	35	563	
2058	0	0	302	302	18	0	18	284	
2059	0	0	0	0	0	0	0	0	
2060	0	0	0	0	0	0	0	0	
2061	0	0	0	0	0	0	0	0	
2062	0	0	0	0	0	0	0	0	
2063	0	0	0	0	0	0	0	0	
2064	0	0	0	0	0	0	0	0	
<b>NOMINAL</b>	0	0	61,214	61,214	3,374	0	3,374	57,840	
<b>NPV</b>	0	0	21,236	21,236	1,300	0	1,300	19,936	
Utility Discount Rate = 6.83%									
<b>Benefit Cost Ratio = 16.332</b>									

Participant Test							
YEAR	BENEFITS				COSTS		NET BENEFITS
	(1) SAVINGS IN PARTICIPANT'S BILL \$(000)	(2) INCENTIVE PAYMENTS \$(000)	(3) OTHER PARTICIPANT'S BENEFITS \$(000)	(4) TOTAL BENEFITS \$(000)	(5) PARTICIPANT'S COST \$(000)	(6) TOTAL COSTS \$(000)	
2025	0	147	0	147	0	0	147
2026	0	294	0	294	0	0	294
2027	0	441	0	441	0	0	441
2028	0	588	0	588	0	0	588
2029	0	734	0	734	0	0	734
2030	0	881	0	881	0	0	881
2031	0	1,028	0	1,028	0	0	1,028
2032	0	1,175	0	1,175	0	0	1,175
2033	0	1,322	0	1,322	0	0	1,322
2034	0	1,469	0	1,469	0	0	1,469
2035	0	1,469	0	1,469	0	0	1,469
2036	0	1,469	0	1,469	0	0	1,469
2037	0	1,469	0	1,469	0	0	1,469
2038	0	1,469	0	1,469	0	0	1,469
2039	0	1,469	0	1,469	0	0	1,469
2040	0	1,469	0	1,469	0	0	1,469
2041	0	1,469	0	1,469	0	0	1,469
2042	0	1,469	0	1,469	0	0	1,469
2043	0	1,469	0	1,469	0	0	1,469
2044	0	1,469	0	1,469	0	0	1,469
2045	0	1,469	0	1,469	0	0	1,469
2046	0	1,469	0	1,469	0	0	1,469
2047	0	1,469	0	1,469	0	0	1,469
2048	0	1,469	0	1,469	0	0	1,469
2049	0	1,469	0	1,469	0	0	1,469
2050	0	1,322	0	1,322	0	0	1,322
2051	0	1,175	0	1,175	0	0	1,175
2052	0	1,028	0	1,028	0	0	1,028
2053	0	881	0	881	0	0	881
2054	0	734	0	734	0	0	734
2055	0	588	0	588	0	0	588
2056	0	441	0	441	0	0	441
2057	0	294	0	294	0	0	294
2058	0	147	0	147	0	0	147
2059	0	0	0	0	0	0	0
2060	0	0	0	0	0	0	0
2061	0	0	0	0	0	0	0
2062	0	0	0	0	0	0	0
2063	0	0	0	0	0	0	0
2064	0	0	0	0	0	0	0
<b>NOMINAL</b>	0	36,725	0	36,725	0	0	36,725
<b>NPV</b>	0	14,045	0	14,045	0	0	14,045
Utility Discount Rate = 6.83%							
<b>Benefit Cost Ratio: 9999</b>							

PROGRAM:	Curtable Service DR			CS						
Rate Impact Measure (RIM) Test										
	BENEFITS				COSTS					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	TOTAL	AVOIDED	AVOIDED		UTILITY					
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET	
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2025	0	0	0	0	3	44	0	47	-47	
2026	0	0	0	0	2	44	0	46	-46	
2027	0	0	0	0	6	88	0	93	-93	
2028	0	0	0	0	5	88	0	92	-92	
2029	0	0	335	335	8	131	0	139	195	
2030	0	0	334	334	7	131	0	138	196	
2031	0	0	334	334	7	131	0	139	195	
2032	0	0	301	301	8	131	0	139	162	
2033	0	0	303	303	8	131	0	139	164	
2034	0	0	356	356	8	131	0	139	217	
2035	0	0	360	360	8	131	0	139	220	
2036	0	0	363	363	8	131	0	140	224	
2037	0	0	367	367	9	131	0	140	227	
2038	0	0	370	370	9	131	0	140	230	
2039	0	0	374	374	9	131	0	140	233	
2040	0	0	377	377	9	131	0	140	237	
2041	0	0	381	381	9	131	0	141	240	
2042	0	0	385	385	10	131	0	141	244	
2043	0	0	388	388	10	131	0	141	247	
2044	0	0	392	392	10	131	0	141	251	
2045	0	0	396	396	10	131	0	142	255	
2046	0	0	400	400	11	131	0	142	258	
2047	0	0	405	405	11	131	0	142	262	
2048	0	0	409	409	11	131	0	142	266	
2049	0	0	413	413	11	131	0	143	270	
2050	0	0	278	278	8	88	0	95	183	
2051	0	0	281	281	8	88	0	96	186	
2052	0	0	142	142	4	44	0	48	94	
2053	0	0	144	144	4	44	0	48	96	
2054	0	0	0	0	0	0	0	0	0	
2055	0	0	0	0	0	0	0	0	0	
2056	0	0	0	0	0	0	0	0	0	
2057	0	0	0	0	0	0	0	0	0	
2058	0	0	0	0	0	0	0	0	0	
2059	0	0	0	0	0	0	0	0	0	
2060	0	0	0	0	0	0	0	0	0	
2061	0	0	0	0	0	0	0	0	0	
2062	0	0	0	0	0	0	0	0	0	
2063	0	0	0	0	0	0	0	0	0	
2064	0	0	0	0	0	0	0	0	0	
NOMINAL	0	0	8,587	8,587	231	3,281	0	3,513	5,075	
NPV	0	0	3,371	3,371	96	1,463	0	1,558	1,812	
Utility Discount Rate = 6.83%										
Benefit Cost Ratio = 2.163										

PROGRAM:	Curtable Service DR			CS					
Total Resource Cost (TRC) Test									
	BENEFITS				COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	TOTAL	AVOIDED	AVOIDED		UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	PARTICIPANTS	TOTAL	NET	
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	COST	COSTS	BENEFITS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2025	0	0	0	0	3	0	3	-3	
2026	0	0	0	0	2	0	2	-2	
2027	0	0	0	0	6	0	6	-6	
2028	0	0	0	0	5	0	5	-5	
2029	0	0	335	335	8	0	8	326	
2030	0	0	334	334	7	0	7	327	
2031	0	0	334	334	7	0	7	326	
2032	0	0	301	301	8	0	8	293	
2033	0	0	303	303	8	0	8	295	
2034	0	0	356	356	8	0	8	349	
2035	0	0	360	360	8	0	8	352	
2036	0	0	363	363	8	0	8	355	
2037	0	0	367	367	9	0	9	358	
2038	0	0	370	370	9	0	9	361	
2039	0	0	374	374	9	0	9	365	
2040	0	0	377	377	9	0	9	368	
2041	0	0	381	381	9	0	9	371	
2042	0	0	385	385	10	0	10	375	
2043	0	0	388	388	10	0	10	379	
2044	0	0	392	392	10	0	10	382	
2045	0	0	396	396	10	0	10	386	
2046	0	0	400	400	11	0	11	390	
2047	0	0	405	405	11	0	11	394	
2048	0	0	409	409	11	0	11	398	
2049	0	0	413	413	11	0	11	402	
2050	0	0	278	278	8	0	8	270	
2051	0	0	281	281	8	0	8	273	
2052	0	0	142	142	4	0	4	138	
2053	0	0	144	144	4	0	4	139	
2054	0	0	0	0	0	0	0	0	
2055	0	0	0	0	0	0	0	0	
2056	0	0	0	0	0	0	0	0	
2057	0	0	0	0	0	0	0	0	
2058	0	0	0	0	0	0	0	0	
2059	0	0	0	0	0	0	0	0	
2060	0	0	0	0	0	0	0	0	
2061	0	0	0	0	0	0	0	0	
2062	0	0	0	0	0	0	0	0	
2063	0	0	0	0	0	0	0	0	
2064	0	0	0	0	0	0	0	0	
<b>NOMINAL</b>	0	0	8,587	8,587	231	0	231	8,356	
<b>NPV</b>	0	0	3,371	3,371	96	0	96	3,275	
Utility Discount Rate = 6.83%									
<b>Benefit Cost Ratio = 35.120</b>									

PROGRAM:	Curtable Service DR			CS				
Participant Test								
	BENEFITS				COSTS			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
	SAVINGS IN		OTHER					
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	TOTAL	NET	
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	COSTS	BENEFITS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2025	0	44	0	44	0	0	44	
2026	0	44	0	44	0	0	44	
2027	0	88	0	88	0	0	88	
2028	0	88	0	88	0	0	88	
2029	0	131	0	131	0	0	131	
2030	0	131	0	131	0	0	131	
2031	0	131	0	131	0	0	131	
2032	0	131	0	131	0	0	131	
2033	0	131	0	131	0	0	131	
2034	0	131	0	131	0	0	131	
2035	0	131	0	131	0	0	131	
2036	0	131	0	131	0	0	131	
2037	0	131	0	131	0	0	131	
2038	0	131	0	131	0	0	131	
2039	0	131	0	131	0	0	131	
2040	0	131	0	131	0	0	131	
2041	0	131	0	131	0	0	131	
2042	0	131	0	131	0	0	131	
2043	0	131	0	131	0	0	131	
2044	0	131	0	131	0	0	131	
2045	0	131	0	131	0	0	131	
2046	0	131	0	131	0	0	131	
2047	0	131	0	131	0	0	131	
2048	0	131	0	131	0	0	131	
2049	0	131	0	131	0	0	131	
2050	0	88	0	88	0	0	88	
2051	0	88	0	88	0	0	88	
2052	0	44	0	44	0	0	44	
2053	0	44	0	44	0	0	44	
2054	0	0	0	0	0	0	0	
2055	0	0	0	0	0	0	0	
2056	0	0	0	0	0	0	0	
2057	0	0	0	0	0	0	0	
2058	0	0	0	0	0	0	0	
2059	0	0	0	0	0	0	0	
2060	0	0	0	0	0	0	0	
2061	0	0	0	0	0	0	0	
2062	0	0	0	0	0	0	0	
2063	0	0	0	0	0	0	0	
2064	0	0	0	0	0	0	0	
<b>NOMINAL</b>	0	3,281	0	3,281	0	0	3,281	
<b>NPV</b>	0	1,463	0	1,463	0	0	1,463	
Utility Discount Rate = 6.83%								
<b>Benefit Cost Ratio: 9999</b>								



PROGRAM:	Standby Generation DR			SBG						
Rate Impact Measure (RIM) Test										
	BENEFITS				COSTS					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	TOTAL	AVOIDED	AVOIDED		UTILITY					
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET	
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2025	0	0	0	0	39	131	0	170	-170	
2026	0	0	0	0	54	262	0	316	-316	
2027	0	0	0	0	90	459	0	549	-549	
2028	0	0	0	0	114	655	0	770	-770	
2029	0	0	2,899	2,899	139	852	0	992	1,908	
2030	0	0	3,676	3,676	177	1,081	0	1,259	2,417	
2031	0	0	4,450	4,450	209	1,311	0	1,520	2,931	
2032	0	0	4,812	4,812	254	1,573	0	1,827	2,985	
2033	0	0	5,660	5,660	293	1,835	0	2,128	3,531	
2034	0	0	7,604	7,604	334	2,097	0	2,432	5,172	
2035	0	0	7,674	7,674	277	2,097	0	2,375	5,300	
2036	0	0	7,746	7,746	284	2,097	0	2,381	5,365	
2037	0	0	7,819	7,819	291	2,097	0	2,389	5,431	
2038	0	0	7,894	7,894	298	2,097	0	2,396	5,498	
2039	0	0	7,970	7,970	306	2,097	0	2,403	5,567	
2040	0	0	8,047	8,047	313	2,097	0	2,411	5,636	
2041	0	0	8,126	8,126	321	2,097	0	2,419	5,707	
2042	0	0	8,206	8,206	329	2,097	0	2,427	5,779	
2043	0	0	8,288	8,288	338	2,097	0	2,435	5,853	
2044	0	0	8,371	8,371	346	2,097	0	2,443	5,927	
2045	0	0	8,456	8,456	355	2,097	0	2,452	6,004	
2046	0	0	8,542	8,542	364	2,097	0	2,461	6,081	
2047	0	0	8,630	8,630	373	2,097	0	2,470	6,160	
2048	0	0	8,719	8,719	382	2,097	0	2,479	6,240	
2049	0	0	8,810	8,810	391	2,097	0	2,489	6,321	
2050	0	0	8,346	8,346	376	1,966	0	2,343	6,003	
2051	0	0	7,871	7,871	360	1,835	0	2,195	5,676	
2052	0	0	7,101	7,101	329	1,639	0	1,968	5,133	
2053	0	0	6,314	6,314	297	1,442	0	1,739	4,575	
2054	0	0	5,510	5,510	263	1,245	0	1,508	4,002	
2055	0	0	4,542	4,542	220	1,016	0	1,236	3,306	
2056	0	0	3,553	3,553	175	787	0	961	2,592	
2057	0	0	2,394	2,394	119	524	0	644	1,750	
2058	0	0	1,209	1,209	61	262	0	323	886	
2059	0	0	0	0	0	0	0	0	0	
2060	0	0	0	0	0	0	0	0	0	
2061	0	0	0	0	0	0	0	0	0	
2062	0	0	0	0	0	0	0	0	0	
2063	0	0	0	0	0	0	0	0	0	
2064	0	0	0	0	0	0	0	0	0	
NOMINAL	0	0	199,240	199,240	8,873	52,436	0	61,309	137,931	
NPV	0	0	67,202	67,202	3,139	19,240	0	22,379	44,823	
Utility Discount Rate = 6.83%										
<b>Benefit Cost Ratio = 3.003</b>										

PROGRAM:	Standby Generation DR			SBG					
Total Resource Cost (TRC) Test									
	BENEFITS				COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	TOTAL	AVOIDED	AVOIDED		UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	TOTAL	PROGRAM	PARTICIPANT'S	TOTAL	NET	
	SAVINGS	COSTS	COSTS	BENEFITS	COSTS	COST	COSTS	BENEFITS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2025	0	0	0	0	39	0	39	-39	
2026	0	0	0	0	54	0	54	-54	
2027	0	0	0	0	90	0	90	-90	
2028	0	0	0	0	114	0	114	-114	
2029	0	0	2,899	2,899	139	0	139	2,760	
2030	0	0	3,676	3,676	177	0	177	3,499	
2031	0	0	4,450	4,450	209	0	209	4,242	
2032	0	0	4,812	4,812	254	0	254	4,558	
2033	0	0	5,660	5,660	293	0	293	5,366	
2034	0	0	7,604	7,604	334	0	334	7,269	
2035	0	0	7,674	7,674	277	0	277	7,397	
2036	0	0	7,746	7,746	284	0	284	7,462	
2037	0	0	7,819	7,819	291	0	291	7,528	
2038	0	0	7,894	7,894	298	0	298	7,596	
2039	0	0	7,970	7,970	306	0	306	7,664	
2040	0	0	8,047	8,047	313	0	313	7,734	
2041	0	0	8,126	8,126	321	0	321	7,805	
2042	0	0	8,206	8,206	329	0	329	7,877	
2043	0	0	8,288	8,288	338	0	338	7,950	
2044	0	0	8,371	8,371	346	0	346	8,025	
2045	0	0	8,456	8,456	355	0	355	8,101	
2046	0	0	8,542	8,542	364	0	364	8,178	
2047	0	0	8,630	8,630	373	0	373	8,257	
2048	0	0	8,719	8,719	382	0	382	8,337	
2049	0	0	8,810	8,810	391	0	391	8,419	
2050	0	0	8,346	8,346	376	0	376	7,970	
2051	0	0	7,871	7,871	360	0	360	7,511	
2052	0	0	7,101	7,101	329	0	329	6,772	
2053	0	0	6,314	6,314	297	0	297	6,017	
2054	0	0	5,510	5,510	263	0	263	5,247	
2055	0	0	4,542	4,542	220	0	220	4,322	
2056	0	0	3,553	3,553	175	0	175	3,379	
2057	0	0	2,394	2,394	119	0	119	2,274	
2058	0	0	1,209	1,209	61	0	61	1,148	
2059	0	0	0	0	0	0	0	0	
2060	0	0	0	0	0	0	0	0	
2061	0	0	0	0	0	0	0	0	
2062	0	0	0	0	0	0	0	0	
2063	0	0	0	0	0	0	0	0	
2064	0	0	0	0	0	0	0	0	
<b>NOMINAL</b>	0	0	199,240	199,240	8,873	0	8,873	190,367	
<b>NPV</b>	0	0	67,202	67,202	3,139	0	3,139	64,063	
Utility Discount Rate = 6.83%									
<b>Benefit Cost Ratio = 21.412</b>									

PROGRAM:	Standby Generation DR			SBG				
Participant Test								
	BENEFITS				COSTS			
	(1)	(2)	(3)	(4)	(5)	(6)		(7)
	SAVINGS IN		OTHER					
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	TOTAL		NET
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	COSTS		BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)		\$(000)
2025	0	131	0	131	0	0		131
2026	0	262	0	262	0	0		262
2027	0	459	0	459	0	0		459
2028	0	655	0	655	0	0		655
2029	0	852	0	852	0	0		852
2030	0	1,081	0	1,081	0	0		1,081
2031	0	1,311	0	1,311	0	0		1,311
2032	0	1,573	0	1,573	0	0		1,573
2033	0	1,835	0	1,835	0	0		1,835
2034	0	2,097	0	2,097	0	0		2,097
2035	0	2,097	0	2,097	0	0		2,097
2036	0	2,097	0	2,097	0	0		2,097
2037	0	2,097	0	2,097	0	0		2,097
2038	0	2,097	0	2,097	0	0		2,097
2039	0	2,097	0	2,097	0	0		2,097
2040	0	2,097	0	2,097	0	0		2,097
2041	0	2,097	0	2,097	0	0		2,097
2042	0	2,097	0	2,097	0	0		2,097
2043	0	2,097	0	2,097	0	0		2,097
2044	0	2,097	0	2,097	0	0		2,097
2045	0	2,097	0	2,097	0	0		2,097
2046	0	2,097	0	2,097	0	0		2,097
2047	0	2,097	0	2,097	0	0		2,097
2048	0	2,097	0	2,097	0	0		2,097
2049	0	2,097	0	2,097	0	0		2,097
2050	0	1,966	0	1,966	0	0		1,966
2051	0	1,835	0	1,835	0	0		1,835
2052	0	1,639	0	1,639	0	0		1,639
2053	0	1,442	0	1,442	0	0		1,442
2054	0	1,245	0	1,245	0	0		1,245
2055	0	1,016	0	1,016	0	0		1,016
2056	0	787	0	787	0	0		787
2057	0	524	0	524	0	0		524
2058	0	262	0	262	0	0		262
2059	0	0	0	0	0	0		0
2060	0	0	0	0	0	0		0
2061	0	0	0	0	0	0		0
2062	0	0	0	0	0	0		0
2063	0	0	0	0	0	0		0
2064	0	0	0	0	0	0		0
NOMINAL	0	52,436	0	52,436	0	0		52,436
NPV	0	19,240	0	19,240	0	0		19,240
Utility Discount Rate = 6.83%								
<b>Benefit Cost Ratio: 9999</b>								

**DUKE ENERGY FLORIDA'S  
COST-EFFECTIVENESS TESTS FOR ALL DSM PROGRAMS  
IN RIM PORTFOLIO**

**Residential Incentive Program:**

<b>Cost Effectiveness Tests</b>				
<b>Cost-Effectiveness Test</b>	<b>NPV Benefits \$(000)</b>	<b>NPV Costs \$ (000)</b>	<b>NPV Net Benefits \$(000)</b>	<b>B/C Ratio</b>
<b>Rate Impact Measure</b>	\$366,600,652	\$221,003,445	\$145,597,208	1.66
<b>Participant</b>	\$206,449,246	\$75,878,734	\$130,570,512	2.72
<b>Total Resource Cost</b>	\$366,600,652	\$90,432,933	\$276,167,719	4.05

**Smart Saver Better Business Program:**

<b>Cost Effectiveness Tests</b>				
<b>Cost-Effectiveness Test</b>	<b>NPV Benefits \$(000)</b>	<b>NPV Costs \$ (000)</b>	<b>NPV Net Benefits \$(000)</b>	<b>B/C Ratio</b>
<b>Rate Impact Measure</b>	\$103,079,064	\$60,004,416	\$43,074,648	1.72
<b>Participant</b>	\$49,595,225	\$36,811,802	\$12,783,423	1.35
<b>Total Resource Cost</b>	\$103,079,064	\$47,220,993	\$55,858,071	2.18

**Residential Load Management Program:**

<b>Cost Effectiveness Tests</b>				
<b>Cost-Effectiveness Test</b>	<b>NPV Benefits \$(000)</b>	<b>NPV Costs \$ (000)</b>	<b>NPV Net Benefits \$(000)</b>	<b>B/C Ratio</b>
<b>Rate Impact Measure</b>	\$101,654,332	\$55,884,408	\$45,769,925	1.82
<b>Participant</b>	\$17,428,322	\$0	\$17,428,322	9999
<b>Total Resource Cost</b>	\$101,654,332	\$38,456,086	\$63,198,246	2.64

**Interruptible Services Program:**

<b>Cost Effectiveness Tests</b>				
<b>Cost-Effectiveness Test</b>	<b>NPV Benefits \$(000)</b>	<b>NPV Costs \$ (000)</b>	<b>NPV Net Benefits \$(000)</b>	<b>B/C Ratio</b>
<b>Rate Impact Measure</b>	\$21,235,988	\$15,345,339	\$5,890,649	1.38
<b>Participant</b>	\$14,045,051	\$0	\$14,045,051	9999
<b>Total Resource Cost</b>	\$21,235,988	\$1,300,288	\$19,935,700	16.33

**Curtable Services Program:**

<b>Cost Effectiveness Tests</b>				
<b>Cost-Effectiveness Test</b>	<b>NPV Benefits \$(000)</b>	<b>NPV Costs \$ (000)</b>	<b>NPV Net Benefits \$(000)</b>	<b>B/C Ratio</b>
<b>Rate Impact Measure</b>	\$3,370,558	\$1,558,491	\$1,812,068	2.16
<b>Participant</b>	\$1,462,519	\$0	\$1,462,519	9999
<b>Total Resource Cost</b>	\$3,370,558	\$95,972	\$3,274,587	35.12

**Standby Generation Program:**

<b>Cost Effectiveness Tests</b>				
<b>Cost-Effectiveness Test</b>	<b>NPV Benefits \$(000)</b>	<b>NPV Costs \$ (000)</b>	<b>NPV Net Benefits \$(000)</b>	<b>B/C Ratio</b>
<b>Rate Impact Measure</b>	\$67,201,940	\$22,378,727	\$44,823,212	3.00
<b>Participant</b>	\$19,240,156	\$0	\$19,240,156	9999.00
<b>Total Resource Cost</b>	\$67,201,940	\$3,138,571	\$64,063,369	21.41

**DUKE ENERGY FLORIDA'S  
COST-EFFECTIVENESS TESTS FOR ALL DSM PROGRAMS  
IN TRC PORTFOLIO**

**Residential Incentive Program:**

<b>Cost Effectiveness Tests</b>				
<b>Cost-Effectiveness Test</b>	<b>NPV Benefits \$(000)</b>	<b>NPV Costs \$ (000)</b>	<b>NPV Net Benefits \$(000)</b>	<b>B/C Ratio</b>
<b>Rate Impact Measure</b>	\$1,193,781,719	\$655,437,228	\$538,344,491	1.82
<b>Participant</b>	\$634,379,530	\$234,677,022	\$399,702,508	2.70
<b>Total Resource Cost</b>	\$1,193,781,719	\$255,734,719	\$938,047,000	4.67

**Smart Saver Better Business Program:**

<b>Cost Effectiveness Tests</b>				
<b>Cost-Effectiveness Test</b>	<b>NPV Benefits \$(000)</b>	<b>NPV Costs \$ (000)</b>	<b>NPV Net Benefits \$(000)</b>	<b>B/C Ratio</b>
<b>Rate Impact Measure</b>	\$273,459,792	\$196,965,099	\$76,494,693	1.39
<b>Participant</b>	\$187,239,274	\$97,734,689	\$89,504,585	1.92
<b>Total Resource Cost</b>	\$273,459,792	\$107,460,514	\$165,999,278	2.54

**Residential Load Management Program:**

<b>Cost Effectiveness Tests</b>				
<b>Cost-Effectiveness Test</b>	<b>NPV Benefits \$(000)</b>	<b>NPV Costs \$ (000)</b>	<b>NPV Net Benefits \$(000)</b>	<b>B/C Ratio</b>
<b>Rate Impact Measure</b>	\$101,654,332	\$55,884,408	\$45,769,925	1.82
<b>Participant</b>	\$17,428,322	\$0	\$17,428,322	9999
<b>Total Resource Cost</b>	\$101,654,332	\$38,456,086	\$63,198,246	2.64

**Interruptible Services Program:**

<b>Cost Effectiveness Tests</b>				
<b>Cost-Effectiveness Test</b>	<b>NPV Benefits \$(000)</b>	<b>NPV Costs \$ (000)</b>	<b>NPV Net Benefits \$(000)</b>	<b>B/C Ratio</b>
<b>Rate Impact Measure</b>	\$21,235,988	\$15,345,339	\$5,890,649	1.38
<b>Participant</b>	\$14,045,051	\$0	\$14,045,051	9999
<b>Total Resource Cost</b>	\$21,235,988	\$1,300,288	\$19,935,700	16.33

**Curtable Services Program:**

<b>Cost Effectiveness Tests</b>				
<b>Cost-Effectiveness Test</b>	<b>NPV Benefits \$(000)</b>	<b>NPV Costs \$ (000)</b>	<b>NPV Net Benefits \$(000)</b>	<b>B/C Ratio</b>
<b>Rate Impact Measure</b>	\$3,370,558	\$1,558,491	\$1,812,068	2.16
<b>Participant</b>	\$1,462,519	\$0	\$1,462,519	9999
<b>Total Resource Cost</b>	\$3,370,558	\$95,972	\$3,274,587	35.12

**Standby Generation Program:**

<b>Cost Effectiveness Tests</b>				
<b>Cost-Effectiveness Test</b>	<b>NPV Benefits \$(000)</b>	<b>NPV Costs \$ (000)</b>	<b>NPV Net Benefits \$(000)</b>	<b>B/C Ratio</b>
<b>Rate Impact Measure</b>	\$67,201,940	\$22,378,727	\$44,823,212	3.00
<b>Participant</b>	\$19,240,156	\$0	\$19,240,156	9999.00
<b>Total Resource Cost</b>	\$67,201,940	\$3,138,571	\$64,063,369	21.41