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COMMISSION CLERK

November 29, 2010

VIA HAND DELIVERY

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

RE: Petition for approval of demand-side management plan of Progress Energy Florida, Inc;
Docket No. 100160-EG

Dear Ms. Cole:

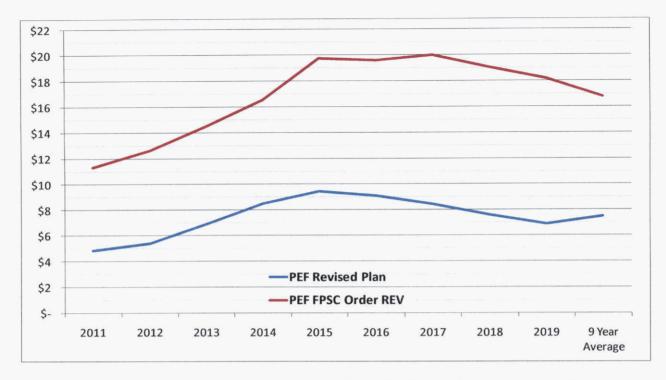
Pursuant to Order PSC-10-0605-PAA-EG, as well as the Commission's request made during the September 14, 2010 Agenda Conference, Progress Energy Florida, Inc. ("PEF") encloses the original and fifteen (15) copies of the following two Demand Side Management ("DSM") plans: (1) the Revised Goal Plan; and (2) the Original Goal Scenario. PEF respectfully requests that the Commission approve and implement the Revised Goal Plan, because it represents the best balance between energy savings and rate impacts to PEF's customers. PEF developed the Revised Goal Plan by screening measures to ensure cost-effectiveness and then using historic experience, market research, and industry review to choose only those programs and measures, at the appropriate participation levels, that were most cost-effective and logical to implement. By using this process, PEF developed a plan that will result in 1,540 GWH of energy savings from 2011-2019, a seven times increase to PEF's historic goals. The Revised Goal Plan is approximately fifty percent of the energy savings found in the Original Goal Scenario, which is 3,205 GWH, but the resulting reduction in rate impact to PEF's customers is far greater than fifty percent.

Specifically, as shown in the following chart, under the Revised Goal Plan, customers will pay \$4.84 per 1,200 kWh/hour in year 2011, but for that same year under the Original Goal Scenario, customers would pay \$11.28. Overall, the average cost PEF's customers would pay under the Revised Goal Plan is \$7.49, but the rate impact is significantly lower than the \$16.79 average under the Original Goal Scenario.

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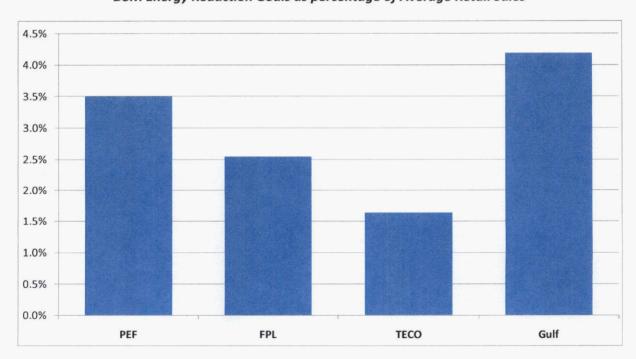
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In addition, the Revised Goal Plan, with its goal of 1,540 GWH, will put PEF more in parity with its peer utilities. The Revised Goal Plan was requested by the Commission at the Agenda Conference, because PEF's goal as set originally by the Commission was 200-400 percent higher than its peers. As shown by the chart below, the revised goal brings PEF closer to the goals set for its peer utilities, when compared as a percentage of retail sales.

DSM Energy Reduction Goals as percentage of Average Retail Sales



Despite the reduction of the energy savings goal presented in the Revised Goal Plan, under this plan PEF will still achieve substantially higher energy savings than the Company achieved in previous DSM plans. PEF will be achieving more than seven times the energy savings achieved in the previous goal-setting period. It will be doing so in a logical, cost-effective manner that is fair to all parties, including PEF's customers.

Further, because PEF had flexibility when crafting the measures and programs to include in the Revised Goal Plan, it could choose those programs that minimize cross-subsidization among its customers and benefit low-income customers. This flexibility was simply not available when developing the Original Goal Scenario, because the aggressive goals required PEF to maximize all available programs and measures.

Therefore, PEF requests the Commission to approve the Revised Goal Plan, along with the revised tariff sheets that implement the changes included in the plan. This revised plan leverages the best combination of measures and programs for providing significant energy savings impacts in the most cost-effective manner.

Sincerely,

Dianne M. Triplett

Attorney for Progress Energy Florida, Inc.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic and US Mail this 29 day of November, 2010 to all parties of record as indicated below

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PROPOSED 2010

REVISED GOAL

DEMAND SIDE MANAGEMENT

PROGRAM PLAN

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I. INTRODUCTION

In accordance with Sections 25-17.001 through 25-17.003, Florida Administrative Code, the Florida Public Service Commission (the "Commission") requested numeric conservation goals, testimony and a Demand Side Management (DSM) Program Plan for Progress Energy Florida ("Progress Energy" or "PEF") in Docket No. 080408-EG. On March 30, 2010, Progress Energy submitted a DSM Plan to meet the 2019 cumulative goals in Order No. PSC-09-0855-FOF-EG issued on December 30, 2009, which was later reduced for a double counting error recognized and voted upon by the Commission on March 31, 2010 in Order No. PSC-10-0198-FOF-EG. On October 4, 2010 the Commission denied Progress Energy's DSM Plan in Order No. PSC-10-0605-PAA-EG, based on the assertion that the Plan submitted met the aggregate or cumulative goal, but not the annual goals as prescribed by the Commission. An Agenda Conference was conducted on September 14, 2010, where PEF demonstrated the need for parity, given that its goal was 200-400% higher than the other Florida utilities. As a result, the Commission ordered PEF to file specific program modifications or additions to meet the annual as well as aggregate, or cumulative goals stated in Order No. PSC-10-0198-FOF-EG issued on March 31, 2010. Additionally the Commission requested a revised goal scenario be filed, aiming at approximately 50% of the original Commission goal, a level that achieves closer parity with the other utilities. To meet this request, PEF has designed two distinct plans referred to as the "Original Goal Scenario", which is being separately filed, and the plan herein referred to as the Revised Goal Plan. PEF is filing both plans, but for the reasons set forth below and as included in its filing letter accompanying both plans, the Commission should approve the Revised Goal Plan. The Revised Goal Plan is the appropriate balance between rate impact and energy efficiency.

Given the current anticipated schedule for Commission consideration of these proposed plans, it will not be possible to realize savings impacts in 2010 associated with any new measures or programs included in the Revised Goal Plan. Additionally, the anticipated schedule for receiving Commission authority to implement new or modified measures and programs will likely impact PEF's ability to meet the 2011 savings set forth in this Revised Goal Plan as efforts to establish new programs, partnerships, infrastructure, etc. are further delayed.

The Revised Goal Plan more closely represents what PEF estimates to be the "achievable potential" based on E-TRC for all measures, including those with less than 2 year paybacks. The plan is designed to meet an achievable level of savings that is approximately 50% of the "Original Goal Scenario", consistent with the Commission request at the September 14, 2010 Agenda Conference and moves PEF toward closer parity with the other Florida utilities. This revised plan leverages the best combination of measures and programs for providing significant energy savings impacts in the most cost-effective manner. Additionally, it reflects PEF's solar pilot programs recently approved in Order No.PSC-10-0605-PAA-EG.

Relative to PEF's March 30, 2010 Plan the design of this new Revised Goal Plan incorporates the following changes for maintaining a least-cost approach to meeting a revised goal.

Reduced program costs – PEF significantly reduced program costs for most efficiency
programs by lowering incentives and other program costs that were and are necessary for
meeting the original 3,205 GWh goal. Most cost reductions outweigh the reduced number of
projected participants and savings in the respective programs as the Company has in this plan

reversed the exponential cost increases required to meet the extremely high adoption rate that would be required under the 3,205 GWh scenarios

- Maintained currently offered energy-efficiency programs PEF is proposing to maintain all
 currently operating energy efficiency programs included in its March 30, 2010 DSM Plan
 filing, with the necessary modifications to best meet a revised goal (e.g., incentive levels and
 other program costs as referenced above)
- 3. <u>Maintained capacity-based demand response programs</u> PEF will maintain its successful history of promoting capacity focused programs that cost effectively defers future generating units
- 4. <u>Included selected new programs previously proposed</u> PEF has retained all or portions of three new programs originally proposed in its March 30, 2010 filing; Business Energy Saver, Commercial Green Building New Construction, and Business Energy Response Program; This plan also includes the Demand Side Renewable Portfolio approved by the Commission
- 5. Retained certain Technical Potential Program (TPP) measures PEF has identified three TPP measures reflected in its March 30, 2010 plan that have been incorporated into existing programs; HVAC tune-up and high SEER HVAC with ECM technology measures were incorporated into the Home Energy Improvement program. HVAC tune-up and window film measures have been incorporated into the low-income and informational education initiatives
- 6. <u>Included new stand-alone programs</u> PEF has incorporated three (3) new stand-alone programs, some of which were previously embedded as measures within its Technical

Potential Program, Residential Lighting Program, Residential Appliance Recycling Program, and Behavior Modification Program; PEF selected these elements of the original TPP program due to their projected cost effectiveness and potential savings impacts over the remaining 9 years of the plan period.

As stated in previous filings and agenda conferences, the Commission should not approve the separately filed "Original Goal Scenario". Rather the Commission should approve this Revised Goal Plan for several reasons. First, this scenario will result in significantly lower rates for PEF's customers while achieving a level of savings more than 7 times PEF's currently approved goal. To illustrate, the residential rate impact in 2011 under the Revised Goal Plan is \$4.84 at 1,200 kWh/hour or 57% lower than the rate impact for the same year in the "Original Goal Scenario" of \$11.28. Second, this scenario will result in relatively lower base rates for PEF's customers in future years and will mitigate cross-subsidization between PEF's customers. Further, approval of the Revised Goal Plan will have less impact on PEF's lower income customers who, under the "Original Goal Scenario", would have both higher rates and the burden of subsidizing higher income customers who can afford to participate in more expensive programs proposed under the "Original Goal Scenario". Finally, approval of this plan will bring PEF more in line with its peer Florida utilities both in terms of energy savings and cost to customers. In contrast to this plan, the "Original Goal Scenario" will result in immediate and significant increases in rate impacts for customers.

The Revised Goal Plan is designed to be achievable and cost effective. It will result in more than a 700% increase over PEF's currently approved goals and will minimize cross-subsidization and cost impacts to PEF's customers.

This document is organized into ten sections:

- Section I provides an introduction of the Revised Goal Plan Demand Side Management (DSM) Program Plan
- Section II presents an Executive Summary of Progress Energy's proposed Revised Goal Plan, summarizing the goals and cumulative impacts of the proposed plan and includes the impacts of PEF's solar pilot programs previously approved in Order No.. PSC-10-0605-PAA-EG
- Section III discusses general issues associated with demand-side management planning and implementation, including program operation, cost-effectiveness, program monitoring and evaluation, and cost-recovery
- Section IV presents Progress Energy's proposed Residential programs
- Section V presents Progress Energy's proposed Commercial/Industrial programs
- Section VI presents Progress Energy's Demand Side Renewables Portfolio
- Section VII presents Progress Energy's Technology Development program
- Section VIII presents Progress Energy's Qualifying Facilities program
- Section IX presents Staff-Requested Tables
- Section X presents Progress Energy's Tariff Revisions.



II. EXECUTIVE SUMMARY

The Revised Goal Plan consists of nine residential programs, ten commercial and industrial programs, and a demand side renewable portfolio consisting of six pilot programs approved on October 4, 2010 in Order No. PSC-10-0605-PAA-EG. Included in these programs and pilots are three focused on low-income families and one specifically focused on businesses located in low-income neighborhoods. Additionally, this plan includes a technology research and development program and a qualifying (small power production or cogeneration) facilities program.

RESIDENTIAL PROGRAMS	COMMERCIAL/INDUSTRIAL PROGRAMS
Home Energy Check	Business Energy Check
Home Energy Improvement	Better Business
Residential New Construction	Commercial/Industrial New Construction
Neighborhood Energy Saver	Business Energy Saver
LowIncome Weatherization Assistance	Commercial Green Building New Construction
Residential Energy Management	Innovation Incentive
Residential Lighting	Standby Generation
Residential Behavior Modification	Interruptible Service
Residential Appliance Recycling	Curtailable Service
	Business Energy Response
Demand Side Renev	wable Portfolio ¹
Technology De	evelopment
Qualifying F	acilities

¹ Previously approved in Order No. PSC-10-0605-PAA-EG

Summary of the Portfolio

The Revised Goal Plan represents the Company's best attempt at designing a plan that is reasonably achievable and in closer parity with the DSM goals of other Florida utilities. Additionally, this plan has less of an impact on customer rates, as compared to the "Original Goal Scenario", and aligns with the Commission's aspirations of significantly increasing customer participation in energy efficiency and renewable programs within the State of Florida. This revised plan provides energy savings impacts that are greater than 7 times the current goals. While this plan outlines an approach to achieving significantly higher goals than what has historically been required, it acknowledges the uncertainty of various parameters in the marketplace during unprecedented adverse economic conditions.

The proposed DSM portfolio herein represents:

- Programs and measures derived from industry best practices and the Company's extensive experience in developing and delivering DSM Programs
- Market transformation attainment through a comprehensive and innovative portfolio of programs
- Persistent and sustainable savings that can be validated through cost effective monitoring and evaluation.

Tables II-1 and II-2 present the demand and energy impacts projected to be achieved by this Revised Goal Plan for each year during the planning period 2011-2019, for the Residential and Commercial/Industrial sectors, respectively.

Table II-1

	Projected Summer De	emand Savings (MW)	Projected Winter De	mand Savings (MW)	Projected Annual Energy Savings (GW	
Year	Incremental	Cumulative	Incre me ntal	Cumulative	Incremental	Cumulative
2011	42.31	42.31	59.57	59.57	98.86	98.86
2012	43.52	85.83	61.30	120.88	104.86	203.72
2013	43.51	129.33	61.87	182.75	102.71	306.43
2014	44.66	174.00	63.89	246.64	102.94	409.37
2015	41.47	215.47	56.37	303.00	97.47	506.84
2016	49.13	264.60	64.64	367.64	99.20	606.05
2017	46.07	310.66	60.48	428.12	91.90	697.95
2018	45.19	355.86	59.56	487.68	90.95	788.89
2019	40.37	396.23	51.15	538.83	91.86	880.75

Table II-2

	Projected Summer Do	mand Savings (MW)	Projected Winter De	mand Savings (MW)	enerator) Projected Annual Energy Savings (GWh	
Year	Incre me ntal	Cumulative	Incre me ntal	Cumulative	Incre me ntal	Cumulative
2011	28.30	28.30	14.54	14.54	67.83	67.83
2012	32.78	61.09	13.39	27.93	63.60	131.43
2013	32.58	93.67	14.42	42.35	64.43	195.86
2014	34.07	127.73	15.49	57.84	69.73	265.58
2015	33.37	161.10	17.68	75.52	68.29	333.87
2016	31.66	192.76	17.17	92.69	62.91	396.78
2017	28.58	221.34	16.38	109.07	52.76	449.53
2018	27.99	249.33	16.18	125.25	50.96	500.49
2019	24.29	273.62	13.26	138.52	40.42	540.92

Proposed Residential and Commercial/Industrial Segment Demand and Energy Data provided in Tables II-1 and II-2 include the Demand Side Renewable Demand and Energy Data provided in Table II-3

Table II-3, presents the cumulative demand and energy impacts projected for programs associated with the demand side renewable portfolio, which was previously approved by the Commission in Order No. PSC-10-0605-PAA-EG.

Table II-3

Proposed Demand Side Renewable Plan 2010 DSM Filing						
	Projected Summer Do	emand Savings (MW)	Projected Winter De	mand Savings (MW)	Projected Annual Energy Savings (GWh	
Year	Incremental	Cumulative	Incremental	Cumulative	Incremental	Cumulative
2011	3.11	4.54	5.17	7.75	6.48	9.06
2012	3.11	7.64	5.17	12.91	6.48	15.54
2013	3.11	10.75	5.17	18.08	6.48	22.01
2014	3.11	13.85	5.17	23.24	6.48	28.49

Table II-4 following this page, summarizes the energy goals (GWh) over the life of the plan, the program costs broken out for DSM and renewables, the residential ECCR at 1,200 KWh/month and the base (non-fuel) revenue impacts for the 9 year (2011-2019) period of the plan.

Table II-4

Progress Energy Florida DSM Cost Estimates - Revised Goal Plan

DSM Plan Reductions (GWh @ Generator)		DSM Plan Cost (2)		2 Desidential		DSM Plan Cost	
Year	Annual (1a)	Cumulative (1b)	Energy Efficiency and Demand Response (2a)	Renewables (2b)	Residential ECCR Impacts @ 1200 kWh (3)	Lost Base Revenue (4)	Lost Base Revenue (5) (2a +2b + 4)
Current	118		45	1 00	\$3.24	16.	
2011	167	285	\$126,093,471	\$4,802,365	\$4.84	\$10,023,955	\$140,919,792
2012	168	453	\$142,594,594	\$5,351,773	\$5.39	\$16,201,843	\$164,148,211
2013	167	620	\$185,385,586	\$5,856,400	\$6.90	\$22,307,148	\$213,549,133
2014	173	793	\$228,016,240	\$6,316,251	\$8.47	\$28,577,881	\$262,910,372
2015	166	959	\$256,432,031	\$1,967,282	\$9.43	\$34,585,020	\$292,984,333
2016	162	1,121	\$250,618,390	\$1,702,371	\$9.11	\$40,502,574	\$292,823,335
2017	145	1,265	\$236,248,954	\$1,280,014	\$8.45	\$45,838,987	\$283,367,954
2018	142	1,407	\$218,185,911	\$902,775	\$7.58	\$51,060,015	\$270,148,702
2019	132	1,540	\$202,847,074	\$570,656	\$6.86	\$56,053,797	\$259,471,527
TOTALS	1,540	1,540	\$1,846,422,251	\$28,749,889	\$7.49 4	\$305,151,220	\$2,180,323,360

¹ Reflects revenue requirements associated with renewable expenditures of \$1.78 million in 2010 and \$6.47 million in each of the years 2011-2014.

² Residential Class ECCR impacts of the program costs in 2a and 2b based on PEF's standard ECCR calculation, calculated by applying those program costs to the residential class ECCR demand and energy allocation factors, summing the resulting costs, dividing that sum by the kWh energy sales for that customer class, and multiplying by 1,200.

³ Average residential and commercial base rates multiplied against respective residential and commercial lost GWh (at the meter).

⁴ Average of 2011 - 2019.

III. PROGRAM INTRODUCTION

A. PROGRAM OBJECTIVES

This Revised Goal Plan has been designed to meet the following objectives:

- Meet an achievable level of annual and cumulative conservation goals for 2011-2019,
 roughly equivalent to 50% of the goals established in Order no. PSC-10-0198-FOF-EG
- Limit the impacts on customer rates
- Fulfill the requirements of Section 366.82(3)(b), F.S.
- Reduce and control the growth rates of electric consumption and weather sensitive peak demand
- Provide enhanced efficiency measures in all end-use sectors across all customer segments
- Offer enhanced energy efficiency options for low-income customers
- Influence customer behaviors through energy efficiency education initiatives
- Promote measurable, sustainable achievements through cost effective monitoring and evaluation of program measures
- Offer demand side renewable pilot programs previously approved in Order No. PSC-10-0605-PAA-EG with consideration of the expenditure cap placed on the development of these technologies.

As the market transforms and early adopters have been exhausted, customer acquisition will become more difficult. Participant incentives will be a key market driver for influencing customer adoption throughout the implementation of this plan. Thus, PEF expects to analyze and re-file adjustments to its program incentives and participation estimates as needed.

B. PORTFOLIO OVERVIEW

PEF recognizes that significant and sustained customer participation is critical to achieving the aggressive goals shared by the Company and its customers. Therefore, PEF has strived to design a comprehensive portfolio with a wide variety of energy efficiency, demand response, renewable, and educational opportunities for all of its customers. This portfolio design leverages and expands the successful program and marketplace infrastructure resulting from PEF's extensive experience, and incorporates new innovative programs that provide further energy saving opportunities for customers. PEF will continue to encourage customers to participate in its audit programs. The audit tools, specifically the on-line and phone assisted tools are being redesigned to encourage participation in no and low-cost energy savings measures and to promote program participation. The Business Energy Check is being enhanced to include an energy savings kit similar to the kit provided to residential customers.

Residential Programs

Residential EE &	Residential EE & DR Programs				
Home Energy Check	Residential Energy Management				
Home Energy Improvement	Residential Lighting*				
Residential New Construction	Residential Behavior Modification*				
Neighborhood Energy Saver	Residential Appliance Recycling*				
Low-Income Weatherization Assistance					

^{*} Denotes new program

Residential Lighting

Provides incentives and marketing support through retailers to encourage greater PEF customer adoption of ENERGY STAR®

qualified or other high efficiency lighting products

Residential Behavior Modification Reduces residential electrical consumption by applying behavioral science in which participants receive reports that compare their energy use with neighbors in similar homes

Residential Appliance Recycling Reduces energy usage by removing less efficient refrigerators and freezers that are operating within residences.

Commercial/Industrial Programs

Commercial/Industrial EE & DR Programs				
Business Energy Check	Interruptible Service			
Better Business	Curtailable Service			
Commercial/Industrial New Construction	Business Energy Saver*			
Innovation Incentive	Commercial Green Building New Construction*			
Standby Generation	Business Energy Response*			

^{*} Denotes new program

Business Energy Saver

Reduces the energy consumption of businesses located in lowincome areas by means of educating business owners and installing energy conservation measures.

Commercial Green Building New Construction Encourages energy efficient construction of new commercial facilities according to guidelines set forth by LEED-NC.

Business Energy Response Reduces electric energy consumption and expands demand response opportunities of participating non-residential customers through enabling two-way communication technologies

Demand Side Renewable Programs

An additional enhancement to PEF's program offerings is the Demand Side Renewable Portfolio, which was previously approved by the Commission in Order No. PSC-10-0605-PAA-EG. This subcomponent of the portfolio is a comprehensive group of pilot programs designed to emphasize the benefits of solar photovoltaic technology, encourage development of renewable programs, and place an added emphasis on low-income and education pilots.

Renewable Programs (Residential)	Renewable Programs (Commercial)	
Residential Solar Photovoltaic	Commercial Solar Photovoltaic	
Solar Water Heating with Energy Management	Photovoltaic for Schools (Pilot)	
Solar Water Heating (Low-Income)		
Research and Dem	onstration	

Technology Development and Qualifying Facilities Programs

Technology Development Pursues research, development, and demonstration projects of

energy saving technologies and concepts to further the investigation

and understanding for potential inclusion in future program offerings

Qualifying Facilities Administers, negotiates, enters into, amends, and restructures firm

energy and capacity contracts entered into with qualifying

cogeneration and small power production faculties.

C. COST-EFFECTIVENESS TEST

Proposed programs have been analyzed for cost-effectiveness using the Commission-approved tests described in Rule 25-17.008, Florida Administrative Code, with the exception of the following programs:

Program	Reason for Exception
Home Energy Check	Mandated in 25-17.003(3)(b)
Business Energy Check	Mandated in 25-17.003(3)(d)
Innovation Incentive	Cost effectiveness tests will be conducted at project consideration
Research and Development of the Demand Side Renewable Portfolio	Mandated in 25-17.001(5)(f) ²
Technology Development	Mandated in 25-17.001(5)(f)
Qualifying Facilities	Mandated in 25-17.082(1)

Strategist, an energy planning and analytics software, was used to evaluate the applicable Demand Side Management programs against avoidable supply-side capacity. In contrast to static models, Strategist is a more sophisticated dynamic model which more closely simulates the operation of the power system. For example, Strategist is directly integrated with other supply-side planning models, thereby allowing variables such as marginal fuel costs, hourly production costs, and generation equivalency to be computed and applied.

A summary of the cost-effectiveness results for each of the applicable Demand Side Management programs included in this Demand Side Management Plan is shown in Table III-1.

-

² Previously approved in Order No. PSC-10-0605-PAA-EG

In addition, detailed program cost-effectiveness results are presented at the end of each applicable program discussion in Sections IV through VI of this document. These detailed results consist of one page each for the Rate Impact Measure (RIM), Participant, and Total Resource Cost (TRC) tests.

Summary of Demand Side Management Programs Included in Revised Goal Plan

Period 2011-2019

Table III-1

	Rate Impact Measure Test			Participant Test			Total Resource Cost Test			
	Total Benefits (\$000)	Total Costs (\$000)	B/C Ratio	Total Benefits (\$000)	Total Costs (\$000)	B/C Ratio	Total Benefits (\$000)	Total Costs (\$000)	B/C Ratio	Progran Status
DSM Measure Residential Conservation Progra		(3000)	Katio	(3000)	(3000)	Katio	(\$000)	(\$000)	Tutto	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Modified
Home Energy Check	\$294,742	\$274,142	1.08	\$233,032	\$120,156	1.94	\$294,742	\$161,265	1.83	Modified
Home Energy Improvement			1.08	\$39,480	\$22,201	1.78	\$50,681	\$29,860	1.70	Modified
Residential New Construction	\$50,681	\$47,138		\$45,113	\$14,928	3.02	\$41,487	\$29,800	1.89	Modified
Neighborhood Energy Saver Low Income Weatherization Assistance	\$41,487 \$6,572	\$52,133 \$8,010	0.80	\$6,732	\$2,171	3.10	\$6,572	\$3,448	1.91	Modified
Residential Energy Management	\$950,529	\$810,825	1.17	\$263,082	\$0	9999	\$950,529	\$531,381	1.79	Existing
Residential Lighting	\$89,434	\$123,436	0.72	\$119,782	\$24,595	4.87	\$89,434	\$28,249	3.17	New
Residential Appliance Recycling	\$49,395	\$72,751	0.68	\$66,264	\$3,009	22.02	\$49,395	\$9,496	5.20	New
Residential Behavior Modification	\$11,186	\$17,656	0.63	\$11,390	\$0	9999	\$11,186	\$6,266	1.79	New
Commercial/Industrial Conserva			0.00	411,070			1			
Business Energy Check	N.A.	N.A	N.A	N.A.	N.A.	N.A	N.A.	N.A.	N.A.	Modified
Commercial Green Building	\$9,142	\$10,590	0.86	\$9,357	\$3,649	2.56	\$9,142	\$4,882	1.87	New
Business Energy Saver	\$1,841	\$1,816	1.01	\$1,517	\$445	3.41	\$1,841	\$745	2.47	New
Commercial/Industrial New Construction	\$29,734	\$29,503	1.01	\$25,935	\$13,362	1.94	\$29,734	\$16,930	1.76	Modifie
Better Business	\$299,260	\$287,368	1.04	\$255,252	\$58,557	4.36	\$299,260	\$90,673	3.30	Modified
Innovation Incentive	\$0	\$0	N/A	\$0	\$0	N/A	\$0	\$0	N/A	Modified
Business Energy Response	\$338,403	\$297,608	1.14	\$6,944	\$0	9999	\$338,403	\$131,405	2.58	New
Standby Generation	\$80,510	\$11,584	6.95	\$10,235	\$0	9999	\$80,510	\$1,349	59.68	Modifie
Interruptible Service	\$6,187	\$1,315	4.70	\$1,127	\$0	9999	\$6,187	\$187	33.09	Modified
Curtailable Service	\$4,508	\$720	6.26	\$663	\$0	9999	\$4,508	\$57	78.80	Modified
Demand Side Renewable Portfoli	0									
Solar Water Heating for Low- income Residential Customers	\$359	\$906	0.40	\$745	\$392	1.90	\$359	\$553	0.65	New
Solar Water Heating with Energy management	\$34,097	\$28,707	1.19	\$33,388	\$28,811	1.16	\$41,138	\$31,171	1.32	Modifie
Residential Solar Photovoltaic	\$4,469	\$8,761	0.51	\$11,361	\$13,958	0.81	\$7,511	\$14,400	0.52	New
Commercial Solar Photovoltaic	\$5,119	\$8,809	0.58	\$10,904	\$12,714	0.86	\$7,713	\$13,213	0.58	New
Photovoltaics for Schools	\$1,681	\$7,913	0.21	\$4,550	\$1,042	4.37	\$5,100	\$7,824	0.65	New
Research & Development	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	New
Technology Development	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Modifie
Qualifying Facilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Existing

D. PROGRAM MONITORING AND EVALUATION

Program monitoring and evaluation are important components of Demand Side Management implementation. Specifically, program monitoring includes tracking program accomplishments and ensuring quality control. Program evaluation documents the energy and demand impacts of the program and also recommends how the program can be improved through program modifications

The program monitoring and evaluation methodologies that Progress Energy intends to use will leverage a variety of data sources including but not limited to: customer-specific audits, billing usage, customer surveys, engineering and building simulation modeling, demographics, weather information, and end-use load research metering. Progress Energy will determine and employ evaluation methodologies specific to each program based on factors such as dollars invested (or program budget), participation levels, program impacts, and measure performance uncertainties.

E. COST RECOVERY

Progress Energy submits the programs herein described for approval and for inclusion as cost recoverable Conservation and Energy Efficiency programs under current Commission-approved procedures pursuant to Rule 25-17.015, Florida Administrative Code ("F.A.C."), and will seek recovery of all prudent costs associated with the development, implementation, and administration of all program and pilots submitted with this Demand Side Management Plan.

Progress Energy seeks cost recovery for previously closed programs that have ongoing costs associated with grandfathered participants. These programs include Commercial Energy Management, Interruptible Service (IS-1) and (IST-1), and Curtailable Service (CS-1) and (CST-1).

Additionally, Progress Energy seeks cost recovery for the programs contained within the Demand Side Renewable Portfolio approved in Order No. PSC-10-0605-PAA-EG.

PEF's September 17, 2010 ECCR Projection Filing (Docket No. 100002-EG), which proposes ECCR rates for 2011, was based on PEF's currently approved programs and, thus, does not reflect the increased cost commensurate with this Revised Goal Plan. PEF may seek a mid-course correction of the ECCR rate during 2011 to mitigate rate impacts for any material difference (larger than ten percent) between the cost recovery charges approved in Docket No. 100002-EG and the cost needed to implement any new DSM Plan approved by the Commission.

IV. RESIDENTIAL CONSERVATION PROGRAMS

Progress Energy's Revised Goal Plan includes nine residential programs:

- Home Energy Check program focused on residential energy audits
- Home Energy Improvement program focused on retrofitting energy efficiency into existing homes (single family, multi-family and manufactured homes)
- Residential New Construction program promoting energy efficiency for new construction, multi-family, and manufactured homes
- Neighborhood Energy Saver program designed to assist low-income families with energy costs by making energy efficiency improvements
- Low-income Weatherization Assistance program designed for the weatherization of the homes of low-income families
- Residential Energy Management program focused on residential load control to reduce peak demands and defer generation needs
- Residential Lighting program focused on encouragement of increased customer adoption of ENERGY STAR® qualified lighting products
- Residential Behavior Modification program focused on the reduction of residential electrical consumption by applying behavioral science principles

 Residential Appliance Recycling - program focused on the reduction of energy use by removal of less efficient refrigerators and freezers from customer residences

Each program is described in detail in the following sections.

A. HOME ENERGY CHECK PROGRAM

Program Start Date:

1995

Modifications proposed in 2010

Program Description

The Home Energy Check is a residential energy audit program that provides residential

customers with an analysis of their energy use as well as recommendations on how they can save

on their electricity bill. The audit focuses on education and encouraging customers to implement

minimal cost energy-saving practices and measures. The audit also provides Progress Energy the

opportunity to promote cost effective measures in customers' homes. The Home Energy Check

serves as the foundation for other residential Demand Side Management Programs. The Home

Energy Check program offers the following types of energy audits:

The Home Energy Check program offers the following types of energy audits:

• Type 1: Free Walk-Through

• Type 2: Customer-completed Mail-In

• Type 3: Customer Online (Internet Option)

• Type 4: Customer Phone Assisted

• Type 5: Home Energy Check for Kids

• Type 6: Paid Walk-Through

• Type 7: Home Energy Rating (Class I, II)

Customers participating in all audit types will be provided with energy efficiency tips and examples of easily installed energy efficiency measures. The program promotes continued customer involvement by demonstrating sustainable and measurable energy reductions in energy usage through the implementation of low cost energy efficiency measures.

The customer will receive a residential Energy Efficiency Kit via the following methods:

- At the time of the onsite Home Energy Check
- Through the mail following completion of all other types of Home Energy Checks

The kit provides items that are easily implemented for energy efficiency. The contents of the kit will change as needed to achieve high savings impacts while recognizing changes in technology and customer habits. Items that may be included in the kit are energy efficient lighting, thermometers, weatherization items, low-flow devices, as well as education for the customer on the savings associated with the installation of the items in the kit.

The Free Walk Through audit has been enhanced to include a mobile delivery method that will help guide the company's improvements in its residential energy audits. This enhanced delivery of the Free Walk-Through provides the energy auditor with a more effective way to input information about the customer's home. The mobile device will address customer needs immediately through online information, and it may print a copy of the report while at the customer's home emphasizing the steps that the customer should focus on for improving energy efficiency. The mobile audit also allows the upload of the energy audit results to the company's

customer database. The company intends to build on the benefits of this platform to increase the value it provides as well as to ensure customer satisfaction with this energy audit.

Policies and Procedures

All residential customers of Progress Energy are eligible to receive any of the above energy audits conducted on residentially metered buildings, located in Progress Energy's service territory. There is no charge for Type 1 through Type 5 home energy checks, while there is a \$15 customer charge for the Type 6 Home Energy Check. When a customer requests a Home Energy Check, they will be given the option of receiving a Type 2 Home Energy Check survey in the mail, a Type 4 Phone Assisted Home Energy Check or the option of scheduling a Type 1 or Type 6 Walk-through Home Energy Check. A Progress Energy auditor will usually conduct the Walk-through Home Energy Check, although Progress Energy reserves the option to work with other agencies and/or utilities as an extension of the Home Energy Check service. An approved energy auditor from another organization may conduct the Home Energy Check. The Home Energy Rating as outlined in Progress Energy's "Florida Energy Gauge Ratings" tariff is available to all eligible Progress Energy customers upon request.

Program Participation

Annual participation estimates for the Home Energy Check program are shown in the following table:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾	
2011	1,473,688	1,473,688	62,755	4.3%	
2012	1,495,098	1,495,098	64,561	8.6%	
2013	1,521,451	1,521,451	64,840	12.7%	
2014	1,548,531	1,548,531	65,151	16.7%	
2015	1,575,167	1,575,167	65,492	20.5%	
2016	1,600,448	1,600,448	65,866	24.3%	
2017	1,624,503	1,624,503	65,151	28.0%	
2018	1,647,724	1,647,724	66,269	31.6%	
2019	1,671,277	1,671,277	66,706	35.2%	

The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan. The entire residential class is eligible for participation.

Number of participants represents the customers that Progress Energy expects to reach through this program annually. Cumulative penetration is the ratio of cumulative measure participating customers to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and, annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables:

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	387	0.09	0.14	24,289,653	5,583	9,067
2012	384	0.09	0.14	24,803,440	5,647	9,230
2013	383	0.09	0.14	24,810,973	5,620	9,217
2014	381	0.09	0.14	24,831,105	5,595	9,209
2015	380	0.09	0.14	24,863,623	5,574	9,206
2016	378	0.08	0.14	24,908,976	5,556	9,207
2017	383	0.09	0.14	24,965,919	5,540	9,213
2018	378	0.08	0.14	25,036,237	5,528	9,224
2019	377	0.08	0.14	25,118,263	5,518	9,240

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction	
2011	412	0.09	0.15	25,875,767	5,947	9,659	
2012	409	0.09	0.15	26,423,105	6,016	9,832	
2013	408	0.09	0.15	26,431,130	5,987	9,819	
2014	406	0.09	0.15	26,452,576	5,961	9,810	
2015	404	0.09	0.15	26,487,218	5,938	9,807	
2016	403	0.09	0.15	26,535,532	5,919	9,809	
2017	408	0.09	0.15	26,596,194	5,902	9,815	
2018	402	0.09	0.15	26,671,103	5,889	9,827	
2019	401	0.09	0.15	26,758,486	5,879	9,843	

Impact Evaluation Plan

The range of possible recommendations resulting from the audit and the inclusion of both technological and behavioral recommendations suggests the need to survey Home Energy Check participants to determine what specific conservation actions have been implemented within each market segment due to the completed audit. Survey results combined with the participant-specific data gathered during the audit will be used to determine the savings which can be attributed to the Home Energy Check program. The impact evaluation plan for this program may use engineering simulation and statistical billing analysis to estimate demand and energy impacts.

Home Energy Improvement Program

Program Start Date:

1995

Program modified in 2000, 2006, 2007

Modifications proposed in 2010

Program Description

The Home Energy Improvement program is designed for the existing single family, multi-family

and manufactured home customers who want to retrofit with high energy efficiency

improvements. All residential customers are eligible to participate in one or more measures

included in this program. The program builds on customer awareness by utilizing various audit

types, contractor participation and Progress Energy influence to educate customers on cost-

effective measures relevant to their residence.

The program seeks to meet the following overall goals:

Provide a cost-effective and comprehensive program portfolio of measures across all

housing types

Improve customer energy savings and demand reduction through the installation of

energy efficient equipment and thermal envelope upgrades

Obtain energy and demand impacts that are significant, accurate and measurable

33

Progress Energy Florida, Inc.

 Educate the residential retrofit market about best practices, innovative technologies and opportunities to leverage participation in all applicable incentives for managing energy consumption.

Policies and Procedures

Program participation must be influenced by one of Progress Energy's educational opportunities.

The program provides incentives for high efficiency HVAC equipment including installation and maintenance, duct repair, attic and wall insulation upgrades, reflective roofing, high performance windows, window film and heat pump water heaters to residential customers in Progress Energy's service territory.

Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions, such as baseline or code revisions, updated measure and verification analysis or technological advances.

Progress Energy is proposing to include the following measures with this program:

High Efficiency HVAC Systems

The High Efficiency HVAC System measure will provide customers an incentive to install a high efficiency HVAC system when replacing their existing system. The incentive will be awarded on a per unit basis according to efficiency rating and tonnage, regardless of the system type (*PTAC*, *Mini-Split*, *Multi-Split*, *Geothermal Heat Pumps*, *etc.*). Measure requirements will be outlined in the Program Participation Standards.

Proper Sizing of High Efficiency HVAC Systems

This portion of the program encourages the customer to have a new replacement air conditioning system properly sized by the HVAC contractor using industry accepted sizing protocol. The Proper Sizing of High Efficiency HVAC Systems measure is performed in conjunction with the installation of a new HVAC system.

Supply and Return Plenum Seal

This measure encourages the HVAC contractor to seal the supply and return portion of the plenum to a new air handler with mastic. The Supply and Return Plenum Seal measure is performed in conjunction with the installation of a new HVAC system.

HVAC Commissioning

An incentive will be provided for the Commissioning of HVAC system(s) in accordance with Progress Energy standards and requirements, eligible on all Florida Energy Code compliant HVAC systems. The requirements and incentives will be outlined in the Program Participation Standards. The HVAC Commissioning measure is performed in conjunction with the installation of a new HVAC system.

Duct Repair

This portion of the program is designed to promote energy efficiency through improved duct sealing. A customer must have electric heating and a centrally-ducted cooling system, either air conditioning or heat pump, to be eligible for this program. The requirements and incentives will be outlined in the Program Participation Standards.

Attic Insulation Upgrade

This program measure encourages customers to upgrade their attic insulation by paying a portion of the installed cost. Eligible residences must have whole house electric air conditioning and/or whole house electric heating. The residence must meet the requirements of the Program Participation Standards to qualify for this measure.

Wall Insulation Upgrade

This program measure encourages customers to upgrade the insulation value of the exterior walls of the home by paying a portion of the installed cost. The requirements and incentives will be outlined in the Program Participation Standards.

Reflective Roof Coating

This measure will provide incentives to install an ENERGY STAR® or Cool Roof Rating Council approved reflective roof coating product to a manufactured home's roof. The product must meet initial reflectance specifications as outlined in the Program Participation Standards.

Reflective Roof

This measure will provide incentives to install an ENERGY STAR® or Cool Roof Rating Council approved reflective roof. The product must meet initial reflectance specifications as outlined in the Program Participation Standards.

Window Film

The measure awards an incentive for installing high performance window film. Qualifying residences will install window film that meets the specifications as outlined in the Program Participation Standards.

Replacement Windows

This measure awards an incentive for installing high performance windows. Qualifying residences will install windows that meet the specifications as outlined in the Program Participation Standards.

HVAC Tune-up

An HVAC contractor performs a tune-up on the customers' existing HVAC system(s) to include: verifying proper refrigerant charge, proper air flow to the residence, and cleaning indoor/outdoor coils and fan blades. The contractor must adhere to all requirements as outlined in the Program Participation Standards.

HVAC Quality Installation

The HVAC Quality Installation measure includes a requirement for the proper selection of equipment that is designed to perform efficiently in Florida's hot, humid climate. The Quality Installation measure also includes right-sizing of the equipment, supply and return plenum sealing, air flow verification and correct refrigerant charging. The contractor must adhere to all requirements as outlined in the Program Participation Standards.

Heat Pump Water Heater

Progress Energy will offer an incentive to install a new heat pump water heater that meets the ENERGY STAR® electric water heater qualifications. This appliance must also meet the specifications as outlined in the Program Participation Standards.

Financing

Financing assistance is an alternative to the direct incentive payment. Progress Energy may explore opportunities to collaborate with 3rd party financing institutions to offer eligible program participants a financing option that focuses on achieving a low monthly payment. A potential financing option could be longer amortization schedules that would be utilized to create a monthly payment that corresponds with the monthly energy savings. Another potential feature of financing assistance would be to apply the customer's applicable incentive(s) for the measure(s) installed to the loan to buy-down the amount of the monthly payment.

Program Participation

Annual participation estimates for the Home Energy Improvement program are shown in the following table.

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Leve (%) (4)
2011	1,473,688	1,473,688	36,883	2.5%
2012	1,495,098	1,495,098	40,137	5.2%
2013	1,521,451	1,521,451	37,705	7.5%
2014	1,548,531	1,548,531	40,674	10.0%
2015	1,575,167	1,575,167	42,019	12.5%
2016	1,600,448	1,600,448	42,842	15.0%
2017	1,624,503	1,624,503	35,061	16.9%
2018	1,647,724	1,647,724	34,308	18.8%
2019	1,671,277	1,671,277	35,025	20.6%

^{1.} The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan.

^{2.} The entire residential class is eligible for participation in at least one measure.

^{3.} Number of program participants represents the number of individual measure participants projected in a given year.

^{4.} Cumulative penetration is the ratio of cumulative measure participants to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and, annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	419	0.43	0.26	15,463,582	15,775	9,735
2012	443	0.43	0.26	17,791,155	17,091	10,579
2013	486	0.46	0.28	18,341,811	17,440	10,687
2014	507	0.47	0.29	20,632,476	19,098	11,692
2015	518	0.47	0.29	21,779,849	19,567	12,012
2016	530	0.46	0.28	22,699,916	19,813	12,105
2017	548	0.46	0.28	19,224,457	16,032	9,764
2018	564	0.45	0.27	19,341,590	15,538	9,399
2019	575	0.45	0.27	20,122,014	15,752	9,476

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	447	0.46	0.28	16,473,354	16,805	10,371
2012	472	0.45	0.28	18,952,917	18,207	11,270
2013	518	0.49	0.30	19,539,531	18,579	11,385
2014	540	0.50	0.31	21,979,776	20,345	12,456
2015	552	0.50	0.30	23,202,073	20,844	12,797
2016	564	0.49	0.30	24,182,220	21,107	12,896
2017	584	0.49	0.30	20,479,814	17,078	10,401
2018	601	0.48	0.29	20,604,596	16,552	10,013
2019	612	0.48	0.29	21,435,981	16,781	10,094

Impact Evaluation Plan

The Home Energy Improvement program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels. These analyses are supported by end-use metering data, where feasible.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$294,742	\$274,142	\$20,600	1.08
Participant	\$233,032	\$120,156	\$112,877	1.94
Total Resource Cost	\$294,742	\$161,265	\$133,476	1.83

PROGRAM: Home Energy Improvement - RIM

			BENEFITS						COSTS		part of		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	TOTAL	AVOIDED	AVOIDED			TOTAL	INCREASED	INCREASED	UTILITY				NINO
	FUEL & O&M	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS \$(000)
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	0
2010	0	0	0	0	0	0	0	0	0 4,826	5,766	2,221	12,813	-10,683
2011	1,917	214	0	0	2,131	0	0	0	5,774	6,518	4,670	16,963	-12,940
2012	3,575	448	0	0	4,023	37	0	0		8,361	7,608	21,896	-10,611
2013	7,438	683	3,164	0	11,285	0	17.1		5,926 6,925	11,606		29,566	-14,632
2014	7,101	942	6,891	0	14,934	0	0	0			11,036	and the same of th	-14,632
2015	9,955	1,210	9,009	0	20,174	0	0	0	7,720	12,486	15,564	35,771	-8,876
2016	13,640	1,482	16,741	0	31,863	0	0	0	8,373	13,298	19,068	40,739	8,300
2017	19,849	1,704	24,909	0	46,463	0	0	0	7,266	11,317	19,580	38,163	
2018	20,636	1,920	16,875	0	39,431	0	0	0	7,465	11,549	21,504	40,518	-1,087 -1,006
2019	23,025	2,140	19,210	0	44,375	0	0	0	7,971	12,138	25,272	45,381	
2020	23,167	2,140	19,612	0	44,919	0	0	0	0	0	25,885	25,885	19,035
2021	22,921	2,140	20,026	0	45,087	0	0	0	0	0	27,745	27,745	17,343
2022	29,035	2,140	10,943	0	42,119	0	0	0	0	0	27,943	27,943	14,176
2023	30,941	2,138	18,248	0	51,327	0	0	0	0	0	28,524	28,524	22,803
2024	24,959	2,130	18,981	0	46,071	0	0	0	0	0	28,824	28,824	17,246
2025	24,633	2,120	19,203	0	45,956	0	0	0	0	0	29,086	29,086	16,870
2026	29,172	1,958	11,732	0	42,862	0	0	0	0	0	27,302	27,302	15,559
2027	22,480	1,784	19,393	0	43,657	0	0	0	0	0	25,197	25,197	18,460
2028	20,395	1,609	17,977	0	39,981	0	0	0	0	0	22,815	22,815	17,166
2029	22,311	1,420	10,651	0	34,382	0	0	0	0	0	20,219	20,219	14,162
2030	20,806	1,224	17,669	0	39,699	0	0	0	0	0	17,247	17,247	22,452
2031	16,810	976	15,496	0	33,281	0	0	0	0	0	13,303	13,303	19,978
2032	14,129	784	13,810	0	28,723	0	0	0	0	0	10,917	10,917	17,806
2033	11,132	597	11,128	0	22,857	0	0	0	0	0	8,555	8,555	14,302
2034	7,578	403	7,184	0	15,164	0	0	0	0	0	5,913	5,913	9,251
2035	6,636	340	6,224	0	13,199	0	0	0	0	0	5,206	5,206	7,993
2036	5,649	276	5,160	0	11,084	0	0	0	0	0	4,443	4,443	6,641
2037	4,807	224	4,270	0	9,302	0	0	0	0	0	3,816	3,816	5,486
2038	3,949	175	3,344	0	7,468	0	0	0	0	0	3,167	3,167	4,301
NOMINAL	448,642	35,322	347,852	0	831,815	0	0	0	62,247	93,039	462,631	617,917	213,899
NPV	158,149	13,651	122,942	0	294,742	0	0	0	41,109	60,514	172,519	274,142	20,600

PROGRAM: Home Energy Improvement - Participant

		BEN	EFITS					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SAVINGS IN		OTHER			PARTICIPANT'S		
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	BILL	TOTAL	NET
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0
2011	2,221	5,766	0	7,987	15,332	0	15,332	-7,345
2012	4,670	6,518	0	11,188	17,565	0	17,565	-6,376
2013	7,608	8,361	0	15,970	18,123	0	18,123	-2,153
2014	11,036	11,606	0	22,641	20,691	0	20,691	1,950
2015	15,564	12,486	0	28,050	22,358	0	22,358	5,693
2016	19,068	13,298	0	32,366	23,680	0	23,680	8,686
2017	19,580	11,317	0	30,897	20,224	0	20,224	10,673
2018	21,504	11,549	0	33,053	20,525	0	20,525	12,528
2019	25,272	12,138	0	37,410	21,641	0	21,641	15,768
2020	25,885	0	0	25,885	0	0	0	25,885
2021	27,745	0	0	27,745	0	0	0	27,745
2022	27,943	0	0	27,943	0	0	0	27,943
2023	28,524	0	0	28,524	0	0	0	28,524
2024	28,824	0	0	28,824	0	0	0	28,824
2025	29,086	0	0	29,086	0	0	0	29,086
2026	27,302	0	0	27,302	0	0	0	27,302
2027	25,197	0	0	25,197	0	0	0	25,197
2028	22,815	0	0	22,815	0	0	0	22,815
2029	20,219	0	0	20,219	0	0	0	20,219
2030	17,247	0	0	17,247	0	0	0	17,247
2031	13,303	0	0	13,303	0	0	0	13,303
2032	10,917	0	0	10,917	0	0	0	10,917
2033	8,555	0	0	8,555	0	0	0	8,555
2034	5,913	0	0	5,913	0	0	0	5,913
2035	5,206	0	0	5,206	0	0	0	5,206
2036	4,443	0	0	4,443	0	0	0	4,443
2037	3,816	0	0	3,816	0	0	0	3,816
2038	3,167	0	0	3,167	0	0	0	3,167
NOMINAL	462,631	93,039	0	555,670	180,140	0	180,140	375,530
NPV	172,519	60,514	0	233,032	120,156	0	120,156	112,877

PROGRAM: Home Energy Improvement - TRC

				BENEFI	TS							COSTS				
	T.	(1) TOTAL UEL & O&M	(2) AVOIDED T&D CAP.	(3) AVOIDED GEN. CAP.	OTI	4) HER CIPANT'S	(5) TOTAL			(6) CIPANT'S	(7) TOTAL FUEL & O&M	(8) INCREASED T&D CAP.	(9) INCREASED GEN. CAP.	(10) UTILITY PROGRAM	(11) TOTAL	(12) NET
	Г	SAVINGS	COSTS	COSTS		EFITS	BENEFITS			COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFIT
YEAR		\$(000)	\$(000)	\$(000)		000)	\$(000)			6(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	 \$(000)
2010	A.S. C.	0	0	0		0	0	7	2.3	0	0	0	0	0	0	0
2011		1,917	214	0		0	2,131		1	5,332	0	0	0	4,826	20,158	-18,028
2012		3,575	448	0	- 1	0	4,023		1	7,565	0	0	0	5,774	23,339	-19,316
2013		7,438	683	3,164		0	11,285		1	8,123	0	0	0	5,926	24,049	-12,764
2014		7,101	942	6,891		0	14,934		2	0,691	0	0	0	6,925	27,616	-12,682
2015		9,955	1,210	9,009	1	0	20,174		2	2,358	0	0	0	7,720	30,078	-9,904
2016		13,640	1,482	16,741		0	31,863		2	3,680	0	0	0	8,373	32,054	-191
2017		19,849	1,704	24,909		0	46,463		2	0,224	0	0	0	7,266	27,490	18,973
2018		20,636	1,920	16,875		0	39,431		2	0,525	0	0	0	7,465	27,991	11,441
2019		23,025	2,140	19,210		0	44,375		2	1,641	0	0	0	7,971	29,612	14,762
2020		23,167	2,140	19,612		0	44,919			0	0	0	0	0	0	44,919
2021		22,921	2,140	20,026	- 1	0	45,087			0	0	0	0	0	0	45,087
2022		29,035	2,140	10,943		0	42,119			0	0	0	0	0	0	42,119
2023		30,941	2,138	18,248		0	51,327			0	0	0	0	0	0	51,327
2024		24,959	2,130	18,981		0	46,071			0	0	0	0	0	0	46,071
2025		24,633	2,120	19,203		0	45,956			0	0	0	0	0	0	45,956
2026		29,172	1.958	11,732		0	42,862			0	0	0	0	0	0	42,862
2027		22,480	1,784	19,393	Ø.	0	43,657			0	0	0	0	0	0	43,657
2028		20,395	1,609	17,977		0	39,981			0	0	0	0	0	0	39,981
2029		22,311	1,420	10,651		0	34,382			0	0	0	0	0	0	34,382
2030		20,806	1,224	17,669	112	0	39,699			0	0	0	0	0	0	39,699
2031		16,810	976	15,496		0	33,281			0	0	0	0	0	0	33,281
2032		14,129	784	13,810		0	28,723			0	0	0	0	0	0	28,723
2033		11,132	597	11,128		0	22,857			0	0	0	0	0	0	22,857
2034		7,578	403	7,184		0	15,164			0	0	0	0	0	0	15,164
2035		6,636	340	6,224		0	13,199			0	0	0	. 0	0	0	13,199
2036		5,649	276	5,160		0	11,084			0	0	0	0	0	0	11,084
2037		4,807	224	4,270		0	9,302			0	0	0	0	0	0	9,302
2038		3,949	175	3,344		0	7,468			0	0	0	0	0	0	7,468
MINAL		448,642	35,322	347,852		0	831,815		1	80,140	0	0	0	62,247	242,386	 589,429
V		158,149	13,651	122,942		0	294,742		1	20,156	0	0	0	41,109	161,265	133,476

B. RESIDENTIAL NEW CONSTRUCTION PROGRAM

Program Start Date:

1995

Program modified in 2000, 2004, 2006, 2007

Modifications proposed in 2010

Program Description

The Residential New Construction (RNC) program is designed to improve the energy efficiency of newly constructed residences in the single family, multi-family and manufactured homes segments.

The program seeks to meet the following overall goals:

- Provide a cost-effective comprehensive program portfolio of measures across all housing types
- Educate and promote energy efficient building design in the residential new construction industry
- Obtain energy and demand impacts that are significant, measurable and accurate
- Evaluate and recommend energy efficient building envelope and equipment measures for the new construction market.

Policies and Procedures

Program participation must be influenced by one of Progress Energy's educational opportunities.

The Residential New Construction program will provide financial incentives and education to builders and developers for incorporating energy efficient measures into the construction process. To qualify for the program, the residence must be a new metered residence in Progress Energy territory.

Renovations and additions will be governed by the current Florida building code for eligibility as new construction. Additions do not qualify for the residential manufactured and the multi-family home segment. Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions, such as baseline or code revisions, updated measurement and valuation analysis, or technological advances.

Progress Energy is proposing to include the following measures with this program:

High Efficiency HVAC Systems

High efficiency heat pumps will be expanded to 3 tiers of classification; 15 to 19+ SEER (or equivalent EER). Systems will qualify based on efficiency rating and tonnage regardless of the system type (PTAC, Mini-Splits, Multi-Splits, Geothermal Heat Pumps, etc.).

High Performance Windows

An incentive will be provided for the installation of high performance windows. The product must meet the specifications as outlined in the Program Participation Standards.

High Performance Exterior Wall Insulation

An incentive will be provided for the installation of high performance exterior wall insulation that exceeds the current Florida Energy Code by a factor of two. The product must meet the specifications as outlined in the Program Participation Standards.

HVAC Commissioning

An incentive will be provided for the commissioning of HVAC system(s) in accordance with Progress Energy standards and requirements, eligible on all Florida Energy Code compliant HVAC systems. The requirements and incentives will be outlined in the Program Participation Standards.

ENERGY STAR® Certification

Progress Energy will offer the builder an incentive to help offset the cost to have a residence rated to meet the ENERGY STAR® certification. The incentive is paid if the residence achieves ENERGY STAR® 's qualifications and at least two Residential New Construction measures are installed. The builder who qualifies for this incentive is not eligible for any other RNC program incentives. The requirements and incentives will be outlined in the Program Participation Standards.

Code Plus 20 Construction

Progress Energy will offer an incentive to builders that construct a residence exceeding the current Florida Energy Code by at least 20% provided they install at least three Residential New Construction program measures. The builder who qualifies for this incentive is not eligible for any other RNC program incentives. The requirements and incentives will be outlined in the Program Participation Standards.

Multi-Family Complexes with Heat Pumps

Multi-family builders and developers that can verify a change in design from A/C systems with electric resistance heat to heat pumps will qualify for a per heat pump system incentive to offset the costs associated with the design change. The requirements and incentives will be outlined in the Program Participation Standards.

HVAC Quality Installation

The Quality Installation measure requires the proper selection of equipment and includes the right-sizing of the equipment, supply and return plenum sealing, air flow verification, and correct refrigerant charging. The contractor must adhere to all requirements as outlined in the Program Participation Standards.

Heat Pump Water Heaters

Progress Energy will offer builders an incentive to install new heat pump water heaters that meet the ENERGY STAR® electric water heater qualifications. This appliance must also meet the specifications as outlined in the Program Participation Standards.

Program Participation

Annual participation estimates for the Residential New Construction program are shown in the following table.

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Participants ⁽³⁾	Cumulative Penetration Level (%) ⁽⁴⁾
2011	1,473,688	16,273	2,727	16.8%
2012	1,495,098	21,410	2,707	14.4%
2013	1,521,451	26,353	2,757	12.8%
2014	1,548,531	27,080	3,174	12.5%
2015	1,575,167	26,636	3,173	12.3%
2016	1,600,448	25,281	2,940	12.2%
2017	1,624,503	24,055	2,707	12.1%
2018	1,647,724	23,221	2,427	11.9%
2019	1,671,277	23,553	2,289	11.6%

^{1.} The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan.

^{2.} Eligible Customers is the number of qualifying new homes built in Progress Energy's territory in the given year.

^{3.} Number of program participants represents the number of individual participants projected in a given year.

^{4.} Cumulative penetration is the ratio of cumulative participants to the accumulated eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	972	0.60	0.52	2,650,599	1,624	1,422
2012	800	0.53	0.39	2,164,549	1,446	1,066
2013	883	0.57	0.41	2,433,746	1,558	1,141
2014	981	0.54	0.45	3,114,093	1,729	1,424
2015	1086	0.60	0.48	3,446,048	1,905	1,531
2016	1485	0.81	0.64	4,365,562	2,367	1,883
2017	1543	0.87	0.68	4,178,140	2,363	1,848
2018	1477	0.84	0.64	3,583,214	2,042	1,563
2019	1552	0.87	0.67	3,551,589	1,994	1,529

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1036	0.63	0.56	2,823,683	1,730	1,515
2012	852	0.57	0.42	2,305,894	1,540	1,136
2013	940	0.60	0.44	2,592,670	1,660	1,216
2014	1045	0.58	0.48	3,317,443	1,842	1,517
2015	1157	0.64	0.51	3,671,075	2,029	1,630
2016	1582	0.86	0.68	4,650,633	2,522	2,006
2017	1644	0.93	0.73	4,450,972	2,517	1,969
2018	1573	0.90	0.69	3,817,198	2,176	1,665
2019	1653	0.93	0.71	3,783,507	2,124	1,629

Impact Evaluation Plan

The Residential New Construction program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels.

Cost Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$50,681	\$47,138	\$3,542	1.08
Participant	\$39,480	\$22,201	\$17,279	1.78
Total Resource Cost	\$50,681	\$29,860	\$20,821	1.70

PROGRAM: Residential New Construction - RIM

			BENEFITS				- 3				COSTS		-		
	(1) TOTAL	(2) AVOIDED	(3) AVOIDED	(4)	(5)		т.	(6) OTAL	(7) INCREASED	(8) INCREASED	(9) UTILITY	(10)	(11)	(12)	(13)
	FUEL & O&M SAVINGS	T&D CAP. COSTS	GEN. CAP. COSTS	REVENUE GAINS	TOTAL BENEFITS		FUEI	& O&M CREASE	T&D CAP. COSTS	GEN. CAP. COSTS	PROGRAM COSTS	INCENTIVE PAYMENTS	REVENUE LOSSES	TOTAL COSTS	NET BENEFIT
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	1		(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0			0	0	0	0	0	0		
2011	331	35	0	0	365			0	0	0	1,110	1,033	379	2,522	-2,157
2012	523	64	0	0	587			0	0	0	951	1,002	672	2,626	-2,038
2013	1,025	97	393	0	1,514			0	0	0	1,023	1,545	1,063	3,631	-2,116
2014	1,034	139	876	0	2,049			0	0	0	1,305	2,223	1,575	5,104	-3,055
2015	1,491	182	1,172	0	2,845			0	0	0	1,392	2,307	2,275	5,974	-3,129
2016	2,142	231	4,042	0	6,415			0	0	0	1,563	2,494	2,960	7,017	-602
2017	3,491	278	4,959	0	8,727			0	0	0	1,515	2,240	3,208	6,963	1,764
2018	3,392	317	2,502	0	6,210			0	0	0	1,343	1,953	3,578	6,874	-664
2019	3,840	355	2,885	0	7,080			0	0	0	1,334	1,969	4,233	7,535	-455
2020	3,875	355	2,945	0	7,176			0	0	0	0	0	4,335	4,335	2,840
2021	3,860	355	3,008	0	7,222			0	0	0	0	0 10	4,646	4,646	2,576
2022	4,783	355	1,643	0	6,781			0	0	0	0	0	4,680	4,680	2,102
2023	5,086	355	2,739	0	8,180			0	0	0	0	0	4,773	4,773	3,407
2024	4,195	354	2,853	0	7,402			0	0	0	0	- 0	4,845	4,845	2,557
2025	4,183	353	2,889	0	7,425			0	0	0	0	0 0	4,909	4,909	2,516
2026	4,843	328	1,758	0	6,928			0	0	0	0	0	4,628	4,628	2,300
2027	3,875	307	2,981	0	7,162			0	0	0	0	0	4,403	4,403	2,760
2028	3,604	283	2,822	0	6,709			0	0	0	0	0	4,069	4,069	2,640
2029	4,278	250	2,479	0	7,007			0	0	0	0	0	3,649	3,649	3,358
2030	4,321	217	4,843	0	9,381			0	0	0	0	0	3,197	3,197	6,184
2031	3,506	174	4,049	0	7,728			0	0	0	0	0	2,532	2,532	5,197
2032	2,822	136	3,329	0	6,286			0	0	0	0	0	2,029	2,029	4,257
2033	2,206	103	2,664	0	4,972			0	0	0	0	0	1,601	1,601	3,372
2034	1,583	70	1,934	0	3,587			0	0	0	0	0	1,137	1,137	2,450
2035	1,484	64	1,791	0	3,338			0	0	0	0	0	1,092	1,092	2,245
2036	1,400	58	1,652	0	3,109			0	0	0	0	0	1,049	1,049	2,061
2037	1,328	52	1,513	0	2,893			0	0	0	0	0	1,004	1,004	1,888
2038	1,255	47	1,379	0	2,681			0	0	0	0	0	959	959	1,722
OMINAL	79,750	5,913	66,098	0	151,760		-	0	0	0	11,535	16,767	79,480	107,781	43,979
NPV	26,817	2,228	21,635	0	50,681			0	0	0	7,658	10,918	28,562	47,138	3,542

PROGRAM: Residential New Construction - Participant

		BENI	EFITS					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SAVINGS IN PARTICIPANT'S	INCENTIVE	OTHER PARTICIPANT'S	TOTAL	PARTICIPANT'S	PARTICIPANT'S BILL	TOTAL	NET
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0
2011	379	1,033	0	1,412	2,952	0	2,952	-1,540
2012	672	1,002	0	1,675	2,934	0	2,934	-1,259
2013	1,063	1,545	0	2,607	3,446	0	3,446	-839
2014	1,575	2,223	0	3,799	4,028	0	4,028	-229
2015	2,275	2,307	0	4,582	4,172	0	4,172	411
2016	2,960	2,494	0	5,454	4,504	0	4,504	950
2017	3,208	2,240	0	5,448	4,046	0	4,046	1,402
2018	3,578	1,953	0	5,532	3,527	0	3,527	2,005
2019	4,233	1,969	0	6,202	3,559	0	3,559	2,643
2020	4,335	0	0	4,335	0	0	0	4,335
2021	4,646	0	0	4,646	0	0	0	4,646
2022	4,680	0	0	4,680	0	0	0	4,680
2023	4,773	0	0	4,773	0	0	0	4,773
2024	4,845	0	0	4,845	0	0	0	4,845
2025	4,909	0	0	4,909	0	0	0	4,909
2026	4,628	0	0	4,628	0	0	0	4,628
2027	4,403	0	0	4,403	0	0	0	4,403
2028	4,069	0	0	4,069	0	0	0	4,069
2029	3,649	0	0	3,649	0	0	0	3,649
2030	3,197	0	0	3,197	0	0	0	3,197
2031	2,532	0	0	2,532	0	0	0	2,532
2032	2,029	0	0	2,029	0	0	0	2,029
2033	1,601	0	0	1,601	0	0	0	1,601
2034	1,137	0	0	1,137	0	0	0	1,137
2035	1,092	0	0	1,092	0	0	0	1,092
2036	1,049	0	0	1,049	0	0	0	1,049
2037	1,004	0	0	1,004	0	0	0	1,004
2038	959	0	0	959	0	0	0	959
OMINAL	79,480	16,767	0	96,247	33,167	0	33,167	63,079
PV	28,562	10,918	0	39,480	22,201	0	22,201	17,279

PROGRAM: Residential New Construction - TRC

				BENEFII	ΓS		 		COSTS				
	P*	_(1)	(2)	(3)	(4)	(5)	 (6)	(7)	(8)	(9)	(10)	(11)	(12)
		TOTAL	A VOIDED	A VOIDED	OTHER			TOTAL	INCREASED	INCREA SED	UTILITY		
	F	UEL & O&M			PARTICIPANT'S	TOTAL	PARTICIPANT'S	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	TOTAL	NET
		SA VINGS	COSTS	COSTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFITS
YEAR	377.5	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	 \$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010		0	0	0	0	0	0	0	0	0	0	0	0
2011		331	35	0	0	365	2,952	0	0	0	1,110	4,062	-3,697
2012		523	64	0	0	587	2,934	0	0	0	951	3,885	-3,297
2013		1,025	97	393	0	1,514	3,446	0	0	0	1,023	4,469	-2,955
2014		1,034	139	876	0	2,049	4,028	0	0	0	1,305	5,333	-3,284
2015		1,491	182	1,172	0	2,845	4,172	0	0	0	1,392	5,563	-2,718
2016		2,142	231	4,042	0	6,415	4,504	0	0	0	1,563	6,067	348
2017		3,491	278	4,959	0	8,727	4,046	0	0	0	1,515	5,561	3,166
2018		3,392	317	2,502	0	6,210	3,527	0	0	0	1,343	4,869	1,341
2019		3,840	355	2,885	0	7,080	3,559	0	0	0	1,334	4,893	2,187
2020		3,875	355	2,945	0	7,176	0	0	0	0	0	0	7,176
2021		3,860	355	3,008	0	7,222	0	0	0	0	0	0	7,222
2022		4,783	355	1,643	0	6,781	0	0	0	0	0	0	6,781
2023		5,086	355	2,739	0	8,180	0	0	0	0	0	0	8,180
2024		4,195	354	2,853	0	7,402	0	0	0	0	0	0	7,402
2025		4,183	353	2,889	0	7,425	0	0	0	0	0	0	7,425
2026		4,843	328	1,758	0	6,928	0	0	0	0	0	0	6,928
2027		3,875	307	2,981	0	7,162	0	0	0	0	0	0	7,162
2028		3,604	283	2,822	0	6,709	0	0	0	0	0	0	6,709
2029		4,278	250	2,479	0	7,007	0	0	0	0	0	0	7,007
2030		4,321	217	4,843	0	9,381	0	0	0	0	0	0	9,381
2031		3,506	174	4,049	0	7,728	0	0	0	0	0	0	7,728
2032		2,822	136	3,329	0	6,286	0	0	0	0	0	0	6,286
2033		2,206	103	2,664	0	4,972	0	0	0	0	0	0	4,972
2034		1,583	70	1,934	0	3,587	0	0	0	0	0	0	3,587
2035		1,484	64	1,791	0	3,338	0	0	0	0	0	0	3,338
2036		1,400	58	1,652	0	3,109	0	0	0	0	0	0	3,109
2037		1,328	52	1,513	0	2,893	0	0	0	0	0	0	2,893
2038		1,255	47	1,379	0	2,681	0	0	O	0	0	0	2,681
NOMINAL		79,750	5,913	66,098	0	151,760	 33,167	0	0	0	11,535	44,702	107,058
NPV		26,817	2,228	21,635	0	50,681	22,201	0	0	0	7,658	29,860	20,821

C. NEIGHBORHOOD ENERGY SAVER PROGRAM

Program Start Date:

2007

Modifications proposed in 2010

Program Description

Progress Energy's Neighborhood Energy Saver program is a custom energy conservation

program designed to assist low-income families with escalating energy costs by making energy

efficiency improvements at their residence. Trained professional surveyors and installers

representing Progress Energy will offer low-income families in targeted neighborhoods a home

energy assessment followed by the installation of specified electric energy conservation

measures. While in the home, residents will be provided energy saving tips for improving and

sustaining household energy efficiency. The energy conservation measures installed and energy

efficiency education provided will be at no cost to the participants.

The Neighborhood Energy Saver program seeks to achieve the following goals:

• Conduct a home energy assessment to identify energy efficiency opportunities within the

customer's home

• Implement a comprehensive package of electric conservation measures to increase the

efficiency in the resident's home

• Provide one-on-one customer education on energy efficiency techniques and energy

conservation measures

Promote behavioral changes to assist customers in controlling their energy usage.

Policies and Procedures:

Progress Energy's Neighborhood Energy Saver program participation is based on the median income guidelines and minimum percentage of households within the Census Block Group meeting those guidelines as calculated from the 2000 and 2010 U.S. Census reports. In the absence of Census data that meets the afore mentioned guidelines, Progress Energy will utilize local municipality defined low-income neighborhood data. Additional requirements are as follows:

- The residence must be a residentially-metered customer in Progress Energy territory
- Customer must reside in a selected Progress Energy qualifying Census Block Group that meets the definition of a Low-income neighborhood as stated above
- Multi-family dwellings that meet the above definition, are located in the Neighborhood
 Energy Saver city, but not within the census block may also be eligible to participate in
 the Neighborhood Energy Saver program if they meet guidelines as presented in program
 participation standards.

Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions such as baseline or code revisions, updated measurement and valuation analysis, or technological advances.

Progress Energy is proposing to include the following measures with this program:

Compact Fluorescent Bulbs

This portion of the program will provide for the installation of a maximum of five (5) compact fluorescent lamps (CFLs) which are in use for an average of at least four (4) hours per day

Refrigerator Coil Brush

This portion of the program will provide the customer with a coil brush to remove dust and debris from condenser coils to improve the refrigerator efficiency

Refrigerator Thermometer

This measure will provide for the installation of one thermometer in the food compartment and one thermometer in the freezer of the refrigerator

Change Filter Calendar

This portion of the program will provide each homeowner a Progress Energy magnetic calendar to help remind them to clean or change HVAC filter monthly

Weatherization Measures

This portion of the program will provide weather stripping, door sweeps, caulk, foam sealant, and clear patch tape which will be used to reduce or stop air infiltration around doors, windows, and where pipes enter the home; Air infiltration reduction is significant to saving energy and customer comfort

Water heater insulation wrap and insulation for water pipes

This portion of the program will furnish and install a hot water heater wrap and pipe insulation as identified by the Neighborhood Energy Saver program Home Energy Evaluation

Water conservation shower head and faucet aerators

This portion of the program will provide a maximum of three (3) aerators and two (2) low flow showerheads per household

Water heater temperature check and adjustment

This portion of the program will provide a temperature check of the hot water heater and perform the turn down adjustment if the customer elects to do so

HVAC filters

This portion of the program will allow each customer to receive a one year supply of filters (12); One filter may be installed at time of evaluation if needed

Indoor wall thermometer

This portion of the program will provide the installation of one wall plate thermometer per home.

HVAC winterization kit

This measure will provide for the installation of a winterization HVAC kit for wall/window AC units, if seasonably applicable; The resident will receive or have installed a maximum of three

(3) kits. The customer will be educated on the proper use and value of the weatherization kit as a method of stopping air infiltration in the home

Attic Insulation Upgrade

This portion of the program will upgrade the customer's insulation from R-0/4 to R-19 if required

HVAC Maintenance

This portion of the program requires performing basic maintenance on the indoor and outdoor components of the central air and heating unit

Window Film/Solar Screen

This portion of the program provides installing window film or solar screen on east, west and south oriented windows.

Program Participation

Annual participation estimates for the Neighborhood Energy Saver program are shown in the following table:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2011	1,473,688	45,718	3,251	7.1%
2012	1,495,098	43,382	3,401	14.3%
2013	1,521,451	40,848	3,601	21.6%
2014	1,548,531	38,064	3,750	29.0%
2015	1,575,167	35,076	2,750	34.1%
2016	1,600,448	33,027	2,750	39.2%
2017	1,624,503	30,938	2,750	44.1%
2018	1,647,724	28,807	2,750	49.0%
2019	1,671,277	26,633	2,750	53.7%

The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan.

Eligible customers represents the count of homes in Progress Energy service territory that are at or below program qualifying income levels based on current US Census block data with a 2% growth rate per year.
 Number of participants represents the customers that Progress Energy expects to reach through direct offerings in each year.

^{4.} Cumulative penetration is the ratio of cumulative participants to the remaining eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and annual projected participation. The total projected program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1715	0.56	0.75	5,576,891	1,831	2,428
2012	1715	0.56	0.75	5,833,874	1,915	2,540
2013	1715	0.56	0.75	6,176,652	2,028	2,689
2014	1715	0.56	0.75	6,431,999	2,112	2,800
2015	1715	0.56	0.75	4,716,745	1,549	2,054
2016	1703	0,56	0.74	4,684,217	1,536	2,033
2017	1577	0.51	0.66	4,335,432	1,405	1,811
2018	1485	0.48	0.60	4,084,407	1,310	1,651
2019	1437	0.46	0.57	3,953,109	1,261	1,568

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1827	0.60	0.80	5,941,062	1,951	2,587
2012	1827	0.60	0.80	6,214,826	2,040	2,706
2013	1827	0.60	0.80	6,579,987	2,160	2,865
2014	1827	0.60	0.80	6,852,009	2,249	2,983
2015	1827	0.60	0.80	5,024,748	1,650	2,188
2016	1815	0.60	0.79	4,990,096	1,637	2,166
2017	1679	0.54	0.70	4,618,536	1,497	1,929
2018	1582	0.51	0.64	4,351,118	1,395	1,759
2019	1531	0.49	0.61	4,211,247	1,343	1,670

Impact Evaluation Plan

The Neighborhood Energy Saver program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis

will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels.

Cost Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$41,487	\$52,133	-\$10,645	0.80
Participant	\$45,113	\$14,928	\$30,185	3.02
Total Resource Cost	\$41,487	\$21,948	\$19,539	1.89

PROGRAM: Neighborhood Energy Saver - RIM

			BENEFITS						COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	TOTAL	AVOIDED	AVOIDED			TOTAL	INCREASED	INCREASED	UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	649	52	0	0	701	0	0	0	1,076	2,460	802	4,338	-3,636
2012	1,151	105	0	0	1,256	0	0	0	1,160	2,629	1,581	5,370	-4,115
2013	2,306	160	845	0	3,311	0	0	0	1,264	2,843	2,546	6,653	-3,342
2014	2,171	207	1,735	0	4,113	0	0	0	1,354	3,023	3,500	7,876	-3,763
2015	2,772	237	2,035	0	5,044	0	0	0	1,023	2,262	4,436	7,721	-2,677
2016	3,437	267	2,553	0	6,258	0	0	0	1,053	2,288	5,006	8,347	-2,089
2017	4,133	292	2,879	0	7,304	0	0	0	1,084	2,088	4,916	8,087	-783
2018	4,385	303	3,070	0	7,757	0	0	0	1,117	1,949	4,924	7,989	-232
2019	4,521	311	3,211	0	8,042	0	0	0	1,150	1,891	5,286	8,327	-285
2020	4,201	286	3,021	0	7,508	0	0	0	0	0	4,995	4,995	2,513
2021	3,606	247	2,646	0	6,499	0	0	0	0	0	4,579	4,579	1,920
2022	3,758	212	1,232	0	5,202	0	0	0	0	0	3,921	3,921	1,281
2023	3,359	182	1,734	0	5,275	0	0	0	0	0	3,340	3,340	1,935
2024	2,251	151	1,464	0	3,867	0	0	0	0	0	2,704	2,704	1,163
2025	1,780	125	1,196	0	3,102	0	0	0	0	0	2,159	2,159	943
2026	1,617	99	594	0	2,310	0	0	0	0	0	1,562	1,562	747
2027	1,124	85	909	0	2,119	0	0	0	0	0	1,275	1,275	844
2028	906	74	787	0	1,767	0	0	0	0	0	1,004	1,004	763
2029	916	55	706	0	1,677	0	0	0	0	0	654	654	1,023
2030	823	46	992	0	1,861	0	0	0	0	0	562	562	1,299
2031	677	37	824	0	1,538	0	0	0	0	0	457	457	1,081
2032	511	28	633	0	1,172	0	0	0	0	0	343	343	829
2033	376	20	480	0	877	0	0	0	0	0	253	253	624
2034	242	13	316	0	572	0	0	0	0	0	158	158	414
2035	151	8	201	0	359	0	0	0	0	0	99	99	260
2036	74	4	98	0	175	0	0	0	0	0	48	48	127
2037	0	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0	0	0
OMINAL	51,894	3,609	34,162	0	89,664	0	0	0	10,279	21,433	61,109	92,822	-3,157
IPV	24,477	1,767	15,243	0	41,487	0	0	0	7,020	14,928	30,185	52,133	-10,645

PROGRAM: Neighborhood Energy Saver - Participant

									COSTS					
		S	(1) SAVINGS IN	(2)	(3) OTHER	(4)		(:	5)		(6) PARTICIPANT'S	(7)		(8)
			RTICIPANT'S BILL	INCENTIVE PAYMENTS	PARTICIPANT'S BENEFITS	TOTAL BENEFITS	P	ARTIC			BILL INCREASE	TOTAL COSTS		NET BENEFITS
	YEAR		\$(000)	\$(000)	\$(000)	\$(000)		\$(0	00)		\$(000)	\$(000)		\$(000)
042	2010	i)	0	0	0	0		()		0	0	_	0
	2011		802	2,460	0	3,262		2,4	160		0	2,460		802
	2012		1,581	2,629	0	4,211		2,6	529		0	2,629		1,581
	2013		2,546	2,843	0	5,389		2,8	343		0	2,843		2,546
	2014		3,500	3,023	0	6,522		3,0)23		0	3,023		3,500
	2015		4,436	2,262	0	6,698			262		0	2,262		4,436
	2016		5,006	2,288	0	7,294		2.2	288		0	2,288		5,006
	2017		4,916	2,088	0	7,004			88(0	2,088		4,916
	2018		4,924	1,949	0	6,872			949		0	1,949		4,924
	2019		5,286	1,891	0	7,178		0.000	391		0	1,891		5,286
	2020		4,995	0	0	4,995)		0	0		4,995
	2021		4,579	0	0	4,579)		0	0		4,579
	2022		3,921	0	0	3,921			0		0	0		3,921
	2023		3,340	0	0	3,340			0		0	0		3,340
	2024		2,704	0	0	2,704			0		0	0		2,704
	2025		2,159	0	0	2,159			0		0	0		2,159
	2026		1,562	0	0	1,562			0		0	0		1,562
	2027		1,275	0	0	1,275			0		0	0		1,275
	2028		1,004	0	0	1,004			0		0	0		1,004
	2029		654	0	0	654			0		0	0		654
	2030		562	0	0	562			0		0	0		562
	2031		457	0	0	457			0		0	0		457
	2032		343	0	0	343			0		0	0		343
	2033		253	0	0	253			0		0	0		253
	2034		158	0	0	158			0		0	0		158
	2035		99	0	0	99			0		0	0		99
	2036		48	0	0	48			0		0	0		48
	2037		0	0	0	0			0		0	0		0
	2038		0	0	0	0			0		0	0		0
IOM	IINAL	- torus - to district	61,109	21,433	0	82,542		21,	433	-	0	21,433		61,109
NPV			30,185	14,928	0	45,113		14.	928		0	14,928		30,185

PROGRAM: Neighborhood Energy Saver - TRC

			BENEFIT	rs				COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL	AVOIDED	AVOIDED	OTHER			TOTAL	INCREASED	INCREASED	UTILITY		
				PARTICIPANT'S	TOTAL	PARTICIPANT'S	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	649	52	0	0	701	2,460	0	0	0	1,076	3,536	-2,835
2012	1,151	105	0	0	1,256	2,629	0	0	0	1,160	3,789	-2,533
2013	2,306	160	845	0	3,311	2,843	0	0	0	1,264	4,107	-796
2014	2,171	207	1,735	0	4,113	3,023	0	0	0	1,354	4,376	-264
2015	2,772	237	2,035	0	5,044	2,262	0	0	0	1,023	3,285	1,759
2016	3,437	267	2,553	0	6,258	2,288	0	0	0	1,053	3,341	2,916
2017	4,133	292	2,879	0	7,304	2,088	0	0	0	1,084	3,171	4,132
2018	4,385	303	3,070	- 0	7,757	1,949	0	0	0	1,117	3,065	4,692
2019	4,521	311	3,211	0	8,042	1,891	0	0	0	1,150	3,041	5,001
2020	4,201	286	3,021	0	7,508	0	0	0	0	0	0	7,508
2021	3,606	247	2,646	0	6,499	0	0	0	0	0	0	6,499
2022	3,758	212	1,232	0	5,202	0	0	0	0	0	0	5,202
2023	3,359	182	1,734	0	5,275	0	0	0	0	0	0	5,275
2024	2,251	151	1,464	0	3,867	0	0	0	0	0	0	3,867
2025	1,780	125	1,196	0	3,102	0	0	0	0	0	0	3,102
2026	1,617	99	594	0	2,310	0	0	0	0	0	0	2,310
2027	1,124	85	909	0	2,119	0	0	0	0	0	0	2,119
2028	906	74	787	0	1,767	0	0	0	0	0	0	1,767
2029	916	55	706	0	1,677	0	0	0	0	0	0	1,677
2030	823	46	992	0	1,861	0	0	0	0	0	0	1,861
2031	677	37	824	0	1,538	0	0	0	0	0	0	1,538
2032	511	28	633	0	1,172	0	0	0	0	0	0	1,172
2033	376	20	480	0	877	0	0	0	0	0	0	877
2034	242	13	316	0	572	0	0	0	0	0	0	572
2035	151	8	201	0	359	0	0	0	0	0	0	359
2036	74	4	98	0	175	0	0	0	0	0	0	175
2037	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	51,894	3,609	34,162	0	89,664	21,433	0	0	0	10,279	31,713	57,952
NPV	24,477	1,767	15,243	0	41,487	14,928	0	0	0	7,020	21,948	19,539

D. LOW INCOME WEATHERIZATION ASSISTANCE PROGRAM

Program Start Date:

2000

Program modified in 2006

Modifications proposed in 2010

Program Description

The Low-Income Weatherization Assistance program is designed to leverage working relationships with providers to integrate Demand Side Management measures and offer energy efficiency with an education component. The Low-Income Weatherization Assistance program combines weatherization provider partnerships with energy education and energy efficiency improvements to benefit low-income families. The program seeks to meet the following goals:

- Integrate Progress Energy's Low-Income Weatherization Assistance program procedures
 with the Department of Community Affairs and local home improvement providers to
 deliver energy efficiency measures to low-income families
- Identify and educate contractors and low-income customers regarding energy saving opportunities to improve home energy efficiency
- Increase low-income families' participation in Progress Energy's Demand Side
 Management programs

 Educate low-income families on achievable, sustainable strategies to reduce individual energy bills.

Policies and Procedures

The program provides incentives for attic insulation upgrades, duct testing and repair, reduced air infiltration, water heater wrap, HVAC maintenance, high efficiency heat pumps, high efficiency electric water heater, low flow showerheads, compact fluorescent light bulbs, faucet aerators, refrigerator coil brush, dedicated heat pump water heaters, window screen/film, reflective roof coating, window air conditioning replacement with window unit winterization kit, and a community energy education component.

The program eligibility requirements to qualify for participation are as follows:

- The residence must be a residentially-metered customer in Progress Energy territory
- Must meet Florida's weatherization and local home improvement provider low-income criteria, in addition to income requirements determined by the Department of Community Affairs (DCA)
- Homes must be greater than two years old
- A DCA-approved provider or local provider's approved contractors must perform all work.

Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on

changes in market conditions, such as baseline or code revisions, updated measurement and valuation analysis, or technological advances.

Progress Energy is proposing to include the following measures with this program:

Attic Insulation Upgrade

This portion of the program encourages customers to add insulation to the ceiling area by paying a portion of the installed cost. The customer must have either whole house electric cooling or electric heating to be eligible for this program.

Duct Test and Repair

This portion of the program is designed to encourage eligible customers to improve their central duct system by reducing the air leakage rate. This is accomplished by performing a duct leakage test, then offering to repair the leakage that is discovered by the duct test. The home must have central ducted electric cooling and electric heat to participate in this measure.

Reduced Air Infiltration

The provider must demonstrate a minimum reduction of air infiltration into the home of 1500 cfm at 50 pascal's to receive an incentive. The home must not exceed ASHRAE Standard 62 for acceptable indoor air quality.

Water Heater Wrap

This portion of the program will provide and install a water heater wrap as identified in the Program Participation Standards.

High-Efficiency Electric Heat Pumps

For high-efficiency electric heat pumps, Progress Energy will provide an incentive per unit. The specific incentive available is dependent upon the efficiency level of the unit installed and the type of electric heat the new equipment is replacing. In order to qualify for an incentive, both the air handler and the outdoor condensing unit shall be replaced, and both units shall be new.

High-Efficiency Electric Water Heating

The high-efficiency water heating portion of this program promotes technologies that heat water more efficiently than a standard electric water heater and save energy. The incentive depends on the type of technology being installed.

Heating and Air Conditioning Maintenance

To maximize efficiency an incentive will be provided for a heating & air conditioning contractor to perform service/tune-up maintenance on existing electric central heating and air conditioning systems.

Low Flow Showerhead - Aerators

This measure will improve energy efficiency for low-income customers in existing homes. Progress Energy will pay an incentive per showerhead for a maximum of two (2) per home, and an additional incentive per aerator for a maximum of three (3) per home.

Compact Fluorescent Light

This measure will help low-income customers reduce their energy costs by installing up to three (3) compact fluorescent lamps (CFLs) per home.

Refrigerator Coil Brush

This portion of the program will encourage low-income customers to clean the coils on their refrigerator. The local provider will demonstrate coil cleaning techniques and leave one brush with the customer for future use.

Window Film/Screen

The local provider will be responsible for meeting manufacturer's instructions and specifications, and installing this measure on west, southwest and northwest oriented windows only. Jalousie, double/triple pane, frosted/plastic windows and skylights are not eligible.

Roof Coating for Manufactured Homes

This portion of the program can lower cooling cost and extend roof life for manufactured homes by providing an incentive to install an ENERGY STAR® or Cool Roof Rating Council approved reflective roof coating product.

Window AC Replacement with Window Unit Winterization Kit

This measure will provide an incentive for replacement/recycle of one window A/C unit per home. Customers will receive a window unit winterization kit. The window A/C unit to be replaced must be in operating condition and the provider must be sure the window A/C unit is removed from the premise and recycled appropriately.

Community Energy Connection

This part of the program will provide low-income residents with energy education training and interactive workstations that focus on assisting low-income families with developing achievable, sustainable strategies to reduce individual energy bills. Each attendee will receive an Energy Conservation Kit. The energy education training will provide a series of Community Energy Connection workshops in low-income communities, designed to partner with low-income providers. These educational workshops will include three stations: Energy Education Presentation, Social Service Agency Presentation, and Expo/Interactive Workstation. The interactive display station will consist of the following: A/C Thermostat, Lighting, Attic Insulation, Air Handler, and Refrigerator Coil Cleaning.

Program Participation

Annual participation estimates for the Low Income Weatherization Assistance program are shown in the following table:

Year	Total Number of Customers (1)	Total Number of Eligible Customers (2)	Annual Number of Program Participants ⁽³⁾	Cumulative Penetration Level (%) ⁽⁴⁾
2011	1,473,688	1,011	337	33.3%
2012	1,495,098	1,026	342	33.3%
2013	1,521,451	1,044	348	33.3%
2014	1,548,531	1,062	354	33.3%
2015	1,575,167	1,081	360	33.3%
2016	1,600,448	1,098	366	33.3%
2017	1,624,503	1,115	372	33.3%
2018	1,647,724	1,131	377	33.3%
2019	1,671,277	1,147	382	33.3%

The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan. Eligible customers is the count that State agencies expects to participate in low-income programs in PEF Area.

Number of participants represents the eligible customers that Progress Energy expects to reach via partnership with State agencies Cumulative penetration is the ratio of cumulative participants to the accumulated eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables:

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1841	0.97	0.83	620,413	327	280
2012	2032	0.89	0.90	695,078	306	309
2013	2028	0.80	0.85	705,829	280	296
2014	2041	0.78	0.83	722,835	274	293
2015	2097	0.93	0.86	755,537	335	309
2016	2119	1.18	0.93	775,733	433	342
2017	2128	1.21	0.93	790,669	449	347
2018	2224	1.30	0.94	838,171	489	353
2019	2293	1.46	0.97	876,521	557	372

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1961	1.03	0.88	660,925	348	298
2012	2165	0.95	0.96	740,466	326	329
2013	2161	0.86	0.91	751,919	298	315
2014	2175	0.83	0.88	770,036	292	312
2015	2234	0.99	0.91	804,874	357	329
2016	2258	1.26	0.99	826,389	462	364
2017	2267	1.29	0.99	842,300	478	370
2018	2369	1.38	1.00	892,904	521	376
2019	2443	1.55	1.04	933,758	593	397

Impact Evaluation Plan

The Low Income Weatherization program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$6,572	\$8,010	-\$1,437	0.82
Participant	\$6,732	\$2,171	\$4,561	3.10
Total Resource Cost	\$6,572	\$3,448	\$3,124	1.91

PROGRAM: Low Income Weatherization Assistance - RIM

			BENEFITS						COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	TOTAL	AVOIDED	AVOIDED			TOTAL	INCREASED	INCREASED	UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	73	6	0	0	79	0	0	0	248	346	89	682	-603
2012	136	12	0	0	147	0	0	0	211	342	185	738	-590
2013	264	17	90	0	371	0	0	0	160	307	298	765	-394
2014	261	23	187	0	470	0	0	0	174	309	419	903	-432
2015	365	29	240	0	634	0	0	0	188	343	580	1,111	-477
2016	480	35	387	0	903	0	0	0	203	354	698	1,255	-352
2017	630	42	487	0	1,159	0	0	0	219	382	729	1,330	-171
2018	674	46	439	0	1,159	0	0	0	236	413	762	1,411	-253
2019	720	50	481	0	1,251	0	0	0	254	459	843	1,556	-306
2020	661	47	451	0	1,158	0	0	0	0	0	779	779	379
2021	592	43	418	0	1,053	0	0	0	0	0	740	740	313
2022	637	39	207	0	883	0	0	0	0	0	651	651	232
2023	592	35	308	0	935	0	0	0	0	0	572	572	363
2024	418	32	282	0	732	0	0	0	0	0	487	487	245
2025	343	28	249	0	619	0	0	0	0	0	400	400	219
2026	327	23	132	0	482	0	0	0	0	0	292	292	189
2027	259	22	227	0	509	0	0	0	0	0	283	283	226
2028	251	21	222	0	494	0	0	0	0	0	272	272	222
2029	321	18	231	0	570	0	0	0	0	0	243	243	328
2030	293	16	331	0	639	0	0	0	0	0	213	213	426
2031	252	13	289	0	554	0	0	0	0	0	181	181	372
2032	207	11	241	0	458	0	0	0	0	0	147	147	311
2033	142	7	170	0	319	0	0	0	0	0	100	100	219
2034	67	4	88	0	159	0	0	0	0	0	44	44	115
2035	47	3	64	0	113	0	0	0	0	0	32	32	82
2036	29	2	38	0	68	0	0	0	0	0	19	19	49
2037	0	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	9,035	624	6,258	0	15,916	0	0	0	1,892	3,256	10,057	15,205	711
NPV	3,841	272	2,459	0	6,572	0	0	0	1,277	2,171	4,561	8,010	-1,437

Utility Discount Rate = 8.48

Benefit Cost Ratio = 0.821

PROGRAM: Low Income Weatherization Assistance - Participant

			BEN	EFITS				COSTS			
		(1) AVINGS IN RTICIPANT'S BILL	(2) INCENTIVE PAYMENTS		(4) TOTAL BENEFITS	PAF	(5) RTICIPANT'S	(6) PARTICIPANT'S BILL	TOTAL	(8) NET	
	YEAR	\$(000)	\$(000)	\$(000)	\$(000)		COST \$(000)	INCREASE \$(000)	COSTS	BENEFITS	i.
	2010	 0	0	0	0		0		\$(000)	 \$(000)	
	2010	89	346	0	435		100	0	0	0	
	2011	185	340	0			346	0	346	89	
			307		527		342	0	342	185	
	2013	298		0	605		307	0	307	298	
	2014	419	309	0	729		309	0	309	419	
	2015	580	343	0	923		343	0	343	580	
	2016	698	354	0	1,052		354	0	354	698	
	2017	729	382	0	1,112		382	0	382	729	
	2018	762	413	0	1,176		413	0	413	762	
	2019	843	459	0	1,302		459	0	459	843	
	2020	779	0	0	779		0	0	0	779	
	2021	740	0	0	740		0	0	0	740	
	2022	651	0	0	651		0	0	0	651	
	2023	572	0	0	572		0	0	0	572	
	2024	487	0	0	487		0	0	0	487	
	2025	400	0	0	400		0	0	0	400	
	2026	292	0	0	292		0	0	0	292	
	2027	283	0	0	283		0	0	0	283	
	2028	272	0	0	272		0	0	0	272	
	2029	243	0	0	243		0	0	0	243	
	2030	213	0	0	213		0	0	0	213	
	2031	181	0	0	181		0	0	0	181	
	2032	147	0	0	147		0	0	0	147	
	2033	100	0	0	100		0	0	0	100	
	2034	44	0	0	44		0	0	0	44	
	2035	32	0	0	32		0	0	0	32	
	2036	19	0	0	19		0	0	0	19	
	2037	0	0	0	0		0	0	0	0	
	2038	0	0	0	0		0	0	0	0	
	Angles Str.	. %	1	e e	100		7.7%			0	
NON	MINAL	 10,057	3,256	0	13,313		3,256	0	3,256	10,057	
NPV		4,561	2,171	0.	6,732		2,171	0	2,171	4,561	

Utility Discount Rate = 8.48

Benefit Cost Ratio = 3.101

PROGRAM: Low Income Weatherization Assistance - TRC

			BENEFIT	rs				COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL	AVOIDED	AVOIDED	OTHER			TOTAL	INCREASED	INCREASED	UTILITY		
	FUEL & O&M	T&D CAP.	GEN. CAP.	PARTICIPANT'S	TOTAL	PARTICIPANT'S	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	73	6	0	0	79	346	0	0	0	248	593	-514
2012	136	12	0	0	147	342	0	0	0	211	553	-405
2013	264	17	90	0	371	307	0	0	0	160	467	-96
2014	261	23	187	0	470	309	0	0	0	174	483	-13
2015	365	29	240	0	634	343	0	0	0	188	531	103
2016	480	35	387	0	903	354	0	0	0	203	557	346
2017	630	42	487	0	1,159	382	0	0	0	219	601	558
2018	674	46	439	0	1,159	413	0	0	0	236	649	510
2019	720	50	481	0	1,251	459	0	0	0	254	714	537
2020	661	47	451	0	1,158	0	0	0	0	0	0	1,158
2021	592	43	418	0	1,053	0	0	0	0	0	0	1,053
2022	637	39	207	0	883	0	0	0	0	0	0	883
2023	592	35	308	0	935	0	0	0	0	0	0	935
2024	418	32	282	0	732	0	0	0	0	0	0	732
2025	343	28	249	0	619	0	0	0	0	0	0	619
2026	327	23	132	0	482	0	0	0	0	0	0	482
2027	259	22	227	0	509	0	0	0	0	0	0	509
2028	251	21	222	0	494	0	0	0	0	0	0	494
2029	321	18	231	0	570	0	0	0	0	0	0	570
2030	293	16	331	0	639	0	0	0	0	0	0	639
2031	252	13	289	0	554	0	0	0	0	0	0	554
2032	207	11	241	0	458	0	0	0	0	0	0	458
2033	142	7	170	0	319	0	0	0	0	0	0	319
2034	67	4	88	0	159	0	0	0	0	0	0	159
2035	47	3	64	0	113	0	0	0	0	0	0	113
2036	29	2	38	0	68	0	0	0	0	0	0	68
2037	0	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	9,035	624	6,258	0	15,916	3,256	0	0	0	1,892	5,148	10,768
NPV	3,841	272	2,459	0	6,572	2,171	0	0	0	1,277	3,448	3,124

Utility Discount Rate = 8.48 Benefit Cost Ratio = 1,906

E. RESIDENTIAL ENERGY MANAGEMENT PROGRAM

Program Start Date:

1981

Program Modified in 1995, 2000, 2007

Modifications proposed in 2010

Program Description

Residential Energy Management is a voluntary customer program that allows Progress Energy to reduce peak demand and defer generation construction. Peak demand is reduced by interrupting service to selected electrical equipment with radio controlled switches installed on the customers' premises. These controlled interruptions are at Progress Energy's option during specified time periods and coincident with hours of peak demand.

Policies and Procedures

It continues to be cost-effective to add new participants to the Residential Year Round Energy Management (RSL-1) and Winter Only (RSL-2) Rate Schedules. Continuing the Residential Energy Management program will increase the summer and winter load control capabilities. In addition to increasing the program's winter effectiveness, the 100% strip control will continue to be offered to any new participants and existing participants requesting a change with heat pump equipment.

This program has grown to be one of the largest direct load control programs in the nation today.

Progress Energy will continue to offer this program to residential customers, but major

infrastructure maintenance procedures are required to maintain a reliable program. The current direct load control one-way communications and home appliance switching infrastructure that allows Progress Energy to load shed over 700 MW of winter peak demand is becoming obsolete due to the end-of-life of major components in the near future. Major infrastructure maintenance and system upgrades are necessary to continue to ensure the availability of the existing 700 MW of direct load control capacity and support additional capacity in the future.

Program Participation

Annual program participation estimates beginning in the year 2010 are shown in the table below. The estimates reflect continuing the year round program, maintaining a winter only option, 100% strip control, and adding new participants.

		Total Number of	Annual Number	
		Measure	of Program	Cumulative
	Total Number of	Eligible	Measure	Penetration
Year	Customers (1)	Customers (2)	Participants (3)	Level (%) (4)
2011	1,473,688	941,530	7,700	0.8%
2012	1,495,098	955,209	7,700	1.6%
2013	1,521,451	972,046	7,700	2.4%
2014	1,548,531	989,347	7,700	3.1%
2015	1,575,167	1,006,365	7,700	3.8%
2016	1,600,448	1,022,517	13,950	5.1%
2017	1,624,503	1,037,885	13,950	6.4%
2018	1,647,724	1,052,721	13,950	7.6%
2019	1,671,277	1,067,769	9,750	8.4%

^{1.} The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan.

^{2.} Estimate of the eligible customers are based on customers that are not presently on Energy Management and have electric heat.

^{3.} New participants of winter only or year round Energy Management Schedule.

^{4.} Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

The total program savings shown in the following tables reflect the demand and energy savings associated with the new program participants projected for the Residential Energy Management Program.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	-	2.14	1.11	-	16,478	8,547
2012	-	2.14	1.11	-	16,478	8,547
2013	show mine	2.14	ab (4.1.11)	16 February 1865 m	16,478	8,547
2014		2.14	1.11	-	16,478	8,547
2015	Market Company	2.14	20. 1.11	in a same	16,478	8,547
2016	-	2.14	1.11	-	29,853	15,485
2017	-	2.14	1.11		29,853	15,485
2018	-	2.14	1.11	-	29,853	15,485
2019	- 1	2.14	1.11	-	20,865	10,823

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011		2.28	1.18		17,554	9,105
2012		2.28	1.18	3:0:0	17,554	9,105
2013	-	2.28	1.18	2 1 1 2 to 1 0	17,554	9,105
2014	1) 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2.28	1.18	9.25-9-1	17,554	9,105
2015	- Color of the second of the s	2.28	1.18		17,554	9,105
2016		2.28	1.18		31,802	16,496
2017	<u> </u>	2.28	1.18	61 ¥ 00	31,802	16,496
2018	<u> </u>	0₹	1.18	1.00 kg	31,802	16,496
2019	140	2.28	1.18		22,227	11,529

Impact Evaluation Plan

Progress Energy is conducting a residential end-use metering study that will be used to estimate the appliance level and duty-cycle impacts of residential load control. This end-use metering data will be used to perform engineering and statistical analysis to calculate the impacts of the program.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

	NPV Benefits	NPV Costs \$	NPV Net	
Cost-Effectiveness Test	\$(000)	(000)	Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$950,529	\$810,825	\$139,704	1.17
Participant	\$263,082	\$0	\$263,082	9999
Total Resource Cost	\$950,529	\$531,381	\$419,148	1.79

PROGRAM: Residential Energy Management - RIM

			BENEFITS						COSTS				1
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)	(6) TOTAL	(7) INCREAS	(8) SED INCREASE	(9) D UTILITY	(10)	(11)	(12)	(13)
YEAR	FUEL & O&M SA VINGS \$(000)	T&D CAP. COSTS \$(000)	GEN. CAP. COSTS \$(000)	REVENUE GAINS \$(000)	TOTAL BENEFITS \$(000)	FUEL & O&M INCREASE \$(000)	T&D CA COSTS \$(000)	COSTS	PROGRAM COSTS \$(000)	INCENTIVE PAYMENTS \$(000)	REVENUE LOSSES \$(000)	TOTAL COSTS \$(000)	NET BENEFI \$(000)
201		0	24,095	0	42,163	0	0	3(000)	14,663	20,385	783	35,830	6,333
201		0	24,864	0	41,859	0	0	0	15,594	20,770	888	37,252	4,607
201		0	25,849	0	45,898	0	0	0	20,678	21,155	956	42,789	3,109
201		0	37,713	0	57,961	0	0	0	51,400	21,540	1,270	74,210	(16,249
201		0	38,662	0	49,242	748	0	0	86,236	20,996	829	108,808	(59,566
201		0	64,114	0	64,114	14,256	0	0	116,400	21,975	1,492	154,123	(90,009
201		Ô	74,989	0	74,989	3,262	0	0	109,266	22,672	1,601	136,800	(61,811
201		0	138,858	0	179,887	0	0	0	103,536	23,370	1,495	128,400	51,486
201		0	83,569	0	101,786	0	0	0	87,234	24,067	1,302	112,602	(10,816
201	이 그렇게 하면	0	87,782	0	100,689	0	0	0	71,723	24,765	1,391	97,878	2,811
202	11000000000	0	90,312	0	101,848	0	0	0	44,303	24,765	1,458	70,525	31,322
202		0	92,926	0	94,925	0	0	0	41,690	24,765	1,884	68,338	26,587
202		0	64,346	0	91,847	0	0	0	40,952	24,765	1,555	67,271	24,576
202	23 36,212	0	65,153	0	101,365	0	0	0	37,514	24,765	1,725	64,004	37,361
202	24 7,724	0	90,921	0	98,644	0	0	0	32,173	24,765	1,843	58,780	39,864
202	25 1,994	0	93,165	0	95,159	0	0	0	25,873	24,765	1,819	52,457	42,702
202	26 26,493	0	73,667	0	100,160	0	0	0	18,648	24,765	1,866	45,278	54,882
202	27 10,415	0	112,704	0	123,119	0	0	0	15,418	24,765	1,888	42,070	81,049
202	28 8,654	0	116,169	0	124,822	0	0	0	13,784	24,765	1,934	40,483	84,339
202	29 16,099	0	104,848	0	120,947	0	-0	0	11,632	24,765	2,069	38,466	82,481
203	30 25,618	0	107,591	0	133,209	0	0	0	12,569	24,765	2,576	39,910	93,299
203	31 25,406	0	111,895	0	137,300	0	0	0	14,355	24,765	2,361	41,481	95,820
203	32 24,979	0	116,370	0	141,349	0	0	0	18,485	24,765	2,365	45,614	95,735
203	33 23,109	0	121,026	0	144,135	0	0	0	17,853	24,765	2,770	45,388	98,747
203	34 25,401	0	125,866	0	151,267	0	0	0	18,327	24,765	2,357	45,448	105,81
20.	35 21,525	0	130,901	0	152,425	0	0	0	18,906	24,765	2,675	46,346	106,07
20	36 19,424	0	136,137	0	155,560	0	0	0	18,082	24,765	2,990	45,837	109,72
20.	37 20,426	0	141,582	0	162,008	0	0	0	40,207	24,765	2,683	67,655	94,353
OMINAL	504,317	0	2,519,066	0	3,023,383	18,265	0	0	1,128,540	687,455	51,640	1,885,900	1,137,4
PV	185,672	0	764,857	0	950,529	11,090	0	0	520,291	263,082	16,362	810,825	139,70

Utility Discount Rate = 8.48

Benefit Cost Ratio = 1.172

PROGRAM: Residential Energy Management - Participant

	BENEFITS				COSTS			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SA VINGS IN		OTHER]	PARTICIPANT'S		NET BENEFITS
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	BILL	TOTAL	ТО
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	PARTICIPANT
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	\$20,385	0	20,385	0	0	0	20,385
2011	0	\$20,770	0	20,770	0	0	0	20,770
2012	0	\$21,155	0	21,155	0	0	0	21,155
2013	0	\$21,540	0	21,540	0	0	0	21,540
2014	0	\$20,996	0	20,996	0	0	0	20,996
2015	0	\$21,975	0	21,975	0	0	0	21,975
2016	0	\$22,672	0	22,672	0	0	0	22,672
2017	0	\$23,370	0	23,370	0	0	0	23,370
2018	0	\$24,067	0	24,067	0	0	0	24,067
2019	0	\$24,765	0	24,765	0	0	0	24,765
2020	0	\$24,765	0	24,765	0	0	0	24,765
2021	0	\$24,765	0	24,765	0	0	0	24,765
2022	0	\$24,765	0	24,765	0	0	0	24,765
2023	0	\$24,765	0	24,765	0	0	0	24,765
2024	0	\$24,765	0	24,765	0	0	0	24,765
2025	0	\$24,765	0	24,765	0	0	0	24,765
2026	0	\$24,765	0	24,765	0	0	0	24,765
2027	0	\$24,765	0	24,765	0	0	0	24,765
2028	0	\$24,765	0	24,765	0	0	0	24,765
2029	0	\$24,765	0	24,765	0	0	0	24,765
2030	0	\$24,765	0	24,765	0	0	0	24,765
2031	0	\$24,765	0	24,765	0	0	0	24,765
2032	0	\$24,765	0	24,765	0	0	0	24,765
2033	0	\$24,765	0	24,765	0	0	0	24,765
2034	0	\$24,765	0	24,765	0	0	0	24,765
2035	0	\$24,765	0	24,765	0	0	0	24,765
2036	0	\$24,765	0	24,765	0	0	0	24,765
2037	0	\$24,765	0	24,765	0	0	0	24,765
MINAL	0	687,455	0	687,455	0	0	0	687,455
V	0	263,082	0	263,082	0	0	0	263,082

Utility Discount Rate = 8.48

Benefit Cost Ratio = 9999

PROGRAM: Residential Energy Management - TRC

			BENEFITS			COSTS							(10)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	TOTAL	A VOIDED	A VOIDED	DESTABLE	TOTAL	TOTAL	INCREASED	INCREA SED	UTILITY	INICENITIVE	REVENUE	TOTAL	NET
	FUEL & O&M		GEN, CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP. COSTS	GEN. CAP. COSTS	PROGRAM COSTS	INCENTIVE PA YMENTS	LOSSES	COSTS	BENEFIT
TITLA TO	SA VINGS	COSTS	COSTS \$(000)	GA INS \$(000)	\$(000)	INCREASE \$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
YEAR 2010	\$(000)	\$(000)	24,095	0	42,163	0	0	0	14,663	0	0	14,663	27,500
2010	18,068 16,995	0	24,864	0	41,859	0	0	0	15,594	0	0	15,594	26,265
2011	20,049	0	25,849	0	45,898	0	0	0	20,678	0	0	20,678	25,220
2012	20,049	0	37,713	0	57,961	0	0	0	51,400	0	0	51,400	6,561
2013	10,580	0	38,662	0	49,242	748	0	0	86,236	0	0	86,984	(37,742)
2015	0	0	64,114	0	64,114	14,256	0	0	116,400	0	0	130,656	(66,542)
2015	0	0	74,989	0	74,989	3,262	0	0	109,266	0	0	112,528	(37,539)
2017	41,029	0	138,858	0	179,887	0	0	0	103,536	0	0	103,536	76,351
2018	18,217	0	83,569	0	101,786	0	0	0	87,234	0	0	87,234	14,553
2019	12,907	0	87,782	0	100,689	0	0	0	71,723	0	0	71,723	28,966
2020	11,535	0	90,312	0	101,848	0	0	0	44,303	0	0	44,303	57,545
2021	1,999	0	92,926	0	94,925	0	0	0	41,690	0	0	41,690	53,235
2022	27,501	0	64,346	0	91,847	0	0	0	40,952	0	0	40,952	50,895
2023	36,212	0	65,153	0	101,365	0	0	0	37,514	0	0	37,514	63,851
2024	7,724	0	90,921	0	98,644	0	0	0	32,173	0	0	32,173	66,471
2025	1,994	0	93,165	0	95,159	0	0	0	25,873	0	0	25,873	69,285
2026	26,493	0	73,667	0	100,160	0	0	0	18,648	0	0	18,648	81,512
2027	10,415	0	112,704	0	123,119	0	0	0	15,418	0	0	15,418	107,702
2028	8,654	0	116,169	0	124,822	0	0	0	13,784	0	0	13,784	111,038
2029	16,099	0	104,848	0	120,947	0	0	0	11,632	0	0	11,632	109,315
2030	25,618	0	107,591	0	133,209	0	0	0	12,569	0	0	12,569	120,639
2031	25,406	0	111,895	0	137,300	0	0	0	14,355	0	0	14,355	122,945
2032	24,979	0	116,370	0	141,349	0	0	0	18,485	0	0	18,485	122,864
2033	23,109	0	121,026	0	144,135	0	0	0	17,853	0	0	17,853	126,281
2034	25,401	0	125,866	0	151,267	0	0	0	18,327	0	0	18,327	132,940
2035	21,525	0	130,901	0	152,425	0	0	0	18,906	0	0	18,906	133,519
2036	19,424	0	136,137	0	155,560	0	0	0	18,082	0	0	18,082	137,478
2037	20,426	0	141,582	0	162,008	0	0	0	40,207	0	0	40,207	121,801
MINAL	504,317		2,519,066	5.315	3,023,383	18,265		97.51 ×	1,128,540		- 10.7	1,146,805	1,876,57
7	185,672		764,857		950,529	11,090			520,291			531,381	419,148

Utility Discount Rate = 8.48

Benefit Cost Ratio = 1.789

F. RESIDENTIAL LIGHTING PROGRAM

Program Start Date:

Proposed to start in 2011

Program Description

The Residential Lighting Program will provide incentives and marketing support through retailers to encourage greater PEF customer adoption of ENERGY STAR® qualified or other high efficiency lighting products. The program utilizes a retailer-based approach to simplify consumer participation and provide customers with an instant rebate at the cash register of participating retail outlets. The program targets the purchase of high efficiency lighting products through in-store and on-line promotions, while promoting greater awareness through special retail and community events. The first few years of the program focus on compact fluorescent light bulbs (CFLs), with the intent to add newer lighting technologies as they mature. PEF will partner with various manufacturers and retailers across its entire service territory to offer a wide selection of products to customers.

The program seeks to meet the following overall goals:

- Reduce participating customers' electricity usage, and their resulting electric bills,
 through the use of energy efficient lighting products
- Reduce PEF's system energy requirements and peak demand
- Reduce the use of fossil fuels to generate electricity
- Defer the need for new generation capacity.

Policies and Procedures

The program provides incentives for high efficiency lighting to customers in Progress Energy's territory. Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions, such as baseline or code revisions, update measure and verification analysis or technological advances.

Progress Energy is proposing to include the following measures with this program:

Compact Fluorescent Light bulbs (CFLs)

Initially, the program will provide customers with a discount per bulb for select ENERGY STAR® qualified CFLs. PEF intends to offer a wide selection of bulbs including the standard twist, in addition to specialty bulbs such as A-lines, globes, reflectors, pars, vanity-bulbs, 3-ways, and dimmable.

Other Lighting Technologies

As technology advances and other lighting products with higher efficiencies become available, PEF will seek Commission approval to add other relevant measures leveraging the resources and market channels of this program. Future offerings could include energy efficient light fixtures, LEDs, or other high efficiency lighting products.

Program Participation

Annual participation estimates for the Residential Lighting program are shown in the following table.

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	1,473,688	1,473,688	147,350	10.0%
2012	1,495,098	1,495,098	149,450	19.9%
2013	1,521,451	1,521,451	132,000	28.2%
2014	1,548,531	1,548,531	112,500	35.0%
2015	1,575,167	1,575,167	115,000	41.7%
2016	1,600,448	1,600,448	112,500	48.0%
2017	1,624,503	1,624,503	88,000	52.7%
2018	1,647,724	1,647,724	85,000	57.2%
2019	1,671,277	1,671,277	85,000	61.4%

^{1.} The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan.

^{2.} The entire residential class is eligible for participation, less previous participation.

^{3.} Number of participants represents the customers that Progress Energy expects to reach through direct offerings in each year.

^{4.} Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	143	- A/C-417	0.01	21,082,740		2,108
2012	141	- 10007 FF.	0.01	21,003,360		2,100
2013	134	55.21	0.01	17,682,000	4-1	1,768
2014	130	A3033 -	0.01	14,570,500		1,457
2015	124		0.01	14,217,000	<u> </u>	1,422
2016	123		0.01	13,793,500		1,379
2017	122		0.01	10,696,000		1,070
2018	121	-	0.01	10,290,000	-	1,029
2019	121		0.01	10,290,000	nacker, in an ent	1,029

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	152	-	0.02	22,459,443	-	2,246
2012	150	-	0.01	22,374,879	-	2,237
2013	143	-	0.01	18,836,635	-	1,884
2014	138	-	0.01	15,521,954	-	1,552
2015	132	-	0.01	15,145,370	-	1,515
2016	131	-	0.01	14,694,216		1,469
2017	129	-	0.01	11,394,449	, - 1	1,139
2018	129	-	0.01	10,961,937	-	1,096
2019	129	-	0.01	10,961,937	-	1,096

Impact Evaluation Plan

Actual sales data for lighting products specifically discounted under PEF's Residential Lighting program will be used to determine the number, type, and wattage for each bulb. Participant surveys will represent a primary source of data, and may be combined with pertinent secondary sources to estimate annual energy savings.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

	NPV Benefits	NPV Costs \$	NPV Net	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Cost-Effectiveness Test	\$(000)	(000)	Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$89,434	\$123,436	-\$34,002	0.72
Participant	\$119,782	\$24,595	\$95,187	4.87
Total Resource Cost	\$89,434	\$28,249	\$61,184	3.17

PROGRAM: Residential Lighting - RIM

			BENEFITS								COSTS							
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)			(6) TOTAL		(7) INCREA SED	(8) INCREA SED	(9) UTILITY		(10)	(11)	(12)		13)
	FUEL & O&M		GEN. CAP.	REVENUE	TOTAL			EL & O&M		T&D CAP.	GEN. CAP.	PROGRAM			REVENUE	TOTAL		ET EFITS
YEA R	SAVINGS \$(000)	COSTS \$(000)	COSTS \$(000)	GA INS \$(000)	SENEFITS \$(000)		3	NCREASE \$(000)		COSTS \$(000)	COSTS \$(000)	COSTS \$(000)		\$(000)	LOSSES \$(000)	\$(000)		000)
2010	0	0	0	0	0		TK	0	7	0	0	0		0	0	0		0
2011	2,204	44	0	0	2,247			0		0	0	560		1,204	3,033	4,797		-2,550
2012	3,953	87	0	0	4,040			0		0	0	630		1,313	5,919	7,862		-3,822
2013	6,351	124	685	0	7,160			0		0	0	600		1,845	8,810	11,255		-4,095
2014	6,611	154	1,342	0	8,107			0		0	0	550		1,738	11,359	13,646		-5,539
2015	8,964	184	1,625	0	10,773			0		0	0	600		2,125	14,663	17,388		-6,615
2016	10,392	212	1,849	0	12,453			0		0	0	650		2,513	16,712	19,875		-7,421
2017	11,196	235	2,140	0	13,571			0		0	0	560		2,320	16,278	19,158		-5,587
2018	10,134	213	2,215	0	12,561			0		0	0	600		2,750	14,208	17,558		-4,997
2019	9,509	193	2,043	0	11,744			0		0	0	640		2,750	13,363	16,753		-5,009
2020	8,090	162	1,757	0	10,009			0		0	0	0		0	11,534	11,534		-1,525
2021	7,465	142	1,566	0	9,172			0		0	0	0		0	10,788	10,788		-1,616
2022	7,148	126	759	0	8,032			0		0	0	0		0	9,639	9,639		-1,606
2023	6,897	114	1,155	0	8,166			0		0	0	0		0	8,995	8,995		-829
2024	6,306	109	1,152	0	7,567			0		0	0	0		0	8,781	8,781		-1,214
2025	6,571	109	1,172	0	7,852			0		0	0	0		0	8,997	8,997		-1,145
2026	7,204	109	772	0	8,085			0		0	0	0		0	9,193	9,193		-1,108
2027	7,002	109	1,395	0	8,506			0		0	0	0		0	9,413	9,413		-907
2028	7,256	109	1,428	0	8,793			0		0	0	0		0	9,624	9,624		-831
2029	7,818	109	775	0	8,702			0		0	0	0		0	9,872	9,872		-1,170
2030	8,181	109	1,297	0	9,587			0		0	0	0		0	10,103	10,103		-516
2031	8,450	109	1,341	0	9,899			0		0	0	0		0	10,264	10,264		-365
2032	8,599	107	1,371	0	10,077			0		0	0	0		0	10,295	10,295		-218
2033	8,376	100	1,340	0	9,816			0		0	0	0		0	9,914	9,914		-98
2034	7,772	91	1,261	0	9,123			0		0	0	0		0	9,131	9,131		-9
2035	6,897	77	1,115	0	8,089			0		0	0	0		0	7,960	7,960		128
2036	5,556	60	898	0	6,513			0		0	0	0		0	6,304	6,304		209
2037	4,100	43	666	0	4,809			0		0	0	0		0	4,608	4,608		201
2038	2,117	21	346	0	2,484			0		0	0	0		0	2,342	2,342		142
NOMINAL	201,111	3,363	33,464	0	237,938	- 111	-	0	-	0	0	5,390	- 1	18,557	272,103	296,049	1,6	-58,111
NPV	75,603	1,413	12,418	0	89,434			0		0	0	3,654		11,950	107832.17	123,436		-34,002

Utility Discount Rate = 8.48

Benefit Cost Ratio = 0.725

PROGRAM: Residential Lighting - Participant

		BEN	EFITS						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	SA VINGS IN		OTHER			PARTICIPANT'S			
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	BILL	TOTAL	NET	
	BILL	PAYM ENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	BENEFITS	
YEA R	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2010	0	0	0	0	0	0	0	0	
2011	3,033	1,204	0	4,237	1,663	0	1,663	2,574	
2012	5,919	1,313	0	7,232	2,078	0	2,078	5,154	
2013	8,810	1,845	0	10,655	3,321	0	3,321	7,335	
2014	11,359	1,738	0	13,096	4,037	0	4,037	9,059	
2015	14,663	2,125	0	16,788	5,072	0	5,072	11,716	
2016	16,712	2,513	0	19,225	5,835	0	5,835	13,390	
2017	16,278	2,320	0	18,598	5,219	0	5,219	13,380	
2018	14,208	2,750	0	16,958	5,944	0	5,944	11,015	
2019	13,363	2,750	0	16,113	5,767	0	5,767	10,346	
2020	11,534	0	0	11,534	0	0	0	11,534	
2021	10,788	0	0	10,788	0	0	0	10,788	
2022	9,639	0	0	9,639	0	0	0	9,639	
2023	8,995	0	0	8,995	0	0	0	8,995	
2024	8,781	0	0	8,781	0	0	0	8,781	
2025	8,997	0	0	8,997	0	0	0	8,997	
2026	9,193	0	0	9,193	0	0	0	9,193	
2027	9,413	0	0	9,413	0	0	0	9,413	
2028	9,624	0	0	9,624	0	0	0	9,624	
2029	9,872	0	0	9,872	0	0	0	9,872	
2030	10,103	0	0	10,103	0	0	0	10,103	
2031	10,264	0	0	10,264	0	0	0	10,264	
2032	10,295	0	0	10,295	0	0	0	10,295	
2033	9,914	0	0	9,914	0	0	0	9,914	
2034	9,131	0	0	9,131	0	0	0	9,131	
2035	7,960	0	0	7,960	0	0	0	7,960	
2036	6,304	0	0	6,304	0	0	0	6,304	
2037	4,608	0	0	4,608	0	0	0	4,608	
2038	2,342	0	0	2,342	0	0	0	2,342	
MINAL	272,103	18,557	0	290,659	38,935	0	38,935	251,724	
v	107,832	11,950	0	119,782	24,595	0	24,595	95,187	

Utility Discount Rate = 8.48

Benefit Cost Ratio = 4.870

PROGRAM: Residential Lighting - TRC

			BENEFII	S			- 50 20 5		COSTS				
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4) OTHER	(5)		(6)	(7) TOTAL	(8) INCREASED	(9) INCREASED	(10) UTILITY	(11)	(12)
	FUEL & O&M SAVINGS	T&D CAP. COSTS	GEN. CAP. COSTS	PARTICIPANT'S BENEFITS	TOTAL BENEFITS	1	PARTICIPANT'S COST	FUEL & O&M INCREASE	T&D CAP. COSTS	GEN, CAP. COSTS	PROGRAM COSTS	TOTAL COSTS	NET BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	- 10	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0		0	0	0	0	0	0	0
2011	2,204	44	0	0	2,247		1,663	0	0	0	560	2,223	25
2012	3,953	87	0	0	4,040		2,078	0	0	0	630	2,708	1,333
2013	6,351	124	685	0	7,160		3,321	0	0	0	600	3,921	3,239
2014	6,611	154	1,342	0	8,107		4,037	0	0	0	550	4,587	3,520
2015	8,964	184	1,625	0	10,773		5,072	0	0	0	600	5,672	5,101
2016	10,392	212	1,849	0	12,453		5,835	0	0	0	650	6,485	5,968
2017	11,196	235	2,140	0	13,571		5,219	0	0	0	560	5,779	7,792
2018	10,134	213	2,215	0	12,561		5,944	0	0	0	600	6,544	6,018
2019	9,509	193	2,043	0	11,744		5,767	0	0	0	640	6,407	5,337
2020	8,090	162	1,757	0	10,009		0	0	0	0	0	0	10,009
2021	7,465	142	1,566	0	9,172		0	0	0	0	0	0	9,172
2022	7,148	126	759	0	8,032		0	0	0	0	0	0	8,032
2023	6,897	114	1,155	0	8,166		0	0	0	0	0	0	8,166
2024	6,306	109	1,152	0	7,567		0	0	0	0	0	0	7,567
2025	6,571	109	1,172	0	7,852		0	0	0	0	0	0	7,852
2026	7,204	109	772	0	8,085		0	0	0	0	0	0	8,085
2027	7,002	109	1,395	0	8,506		0	0	0	0	0	0	8,506
2028	7,256	109	1,428	0	8,793		0	0	0	0	0	0	8,793
2029	7,818	109	775	0	8,702		0	0	0	0	0	0	8,702
2030	8,181	109	1,297	0	9,587		0	0	0	0	0	0	9,587
2031	8,450	109	1,341	0	9,899		0	0	0	0	0	0	9,899
2032	8,599	107	1,371	0	10,077		0	0	0	0	0	0	10,077
2033	8,376	100	1,340	0	9,816		0	0	0	0	0	0	9,816
2034	7,772	91	1,261	0	9,123		0	0	0	0	0	0	9,123
2035	6,897	77	1,115	0	8,089		0	0	0	0	0	0	8,089
2036	5,556	60	898	0	6,513		0	0	0	0	0	0	6,513
2037	4,100	43	666	0	4,809		0	0	0	0	0	0	4,809
2038	2,117	21	346	0	2,484		0	0	0	0	0	0	2,484
IOMINAL	201,111	3,363	33,464	0	237,938		38,935	0	0	0	5,390	44,325	193,613
JPV	75,603	1,413	12,418	0	89,434		24,595	0	0	0	3,654	28,249	61,184

Utility Discount Rate = 8.48

Benefit Cost Ratio = 3.166

G. RESIDENTIAL BEHAVIOR MODIFICATION PROGRAM

Program Start Date:

Proposed to start in 2011

Program Description

The Residential Behavior Modification Program is designed to reduce residential electrical

consumption by applying behavioral science principles in which eligible customers receive

reports which compare their energy use with neighbors in similar homes.

Policies and Procedures

Participants will be periodically mailed the individualized reports and can elect to switch to on-

line reports at any time during the duration of the program. In addition to the household

comparative analysis the reports will provide specific recommendations to motivate participants

to reduce their energy consumption.

PEF will also deploy an interactive web portal that gives customers greater insight into their

energy consumption and actions they can take to become more energy efficient. The web portal

will include monthly customer billing data, goal setting and tracking, as well as personalized and

community recommended energy efficiency tips.

Customers with a minimum of twelve months billing history will be eligible to participate in the

program. Participants will be determined using statistical methods and represent a cross-section

of PEF's high energy usage residential customers.

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Progress Energy Florida, Inc.

Program Participation

Annual participation estimates for the Residential Behavior Modification Program are shown in the following table.

Year	Total Number of	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	1,473,688	1,473,688	50,000	3.4%
2012	1,495,098	1,495,098	50,000	6.7%
2013	1,521,451	1,521,451	50,000	9.9%
2014	1,548,531	1,548,531	50,000	12.9%
2015	1,575,167	1,575,167	50,000	15.9%
2016	1,600,448	1,600,448	50,000	18.7%
2017	1,624,503	1,624,503	50,000	21.5%
2018	1,647,724	1,647,724	50,000	24.3%
2019	1,671,277	1,671,277	50,000	26.9%

The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan.

The entire residential class is eligible for participation, less previous participation.
 Number of participants represents the customers that Progress Energy expects to reach through direct offerings in each year

^{4.} Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total program savings is based on the application of behavioral science principles in which eligible customers receive reports which compare their energy use with neighbors in similar homes and are shown in the following tables:

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	250	0.06	0.06	12,500,000	3,000	3,000
2012	250	0.06	0.06	12,500,000	3,000	3,000
2013	250	0.06	0.06	12,500,000	3,000	3,000
2014	250	0.06	0.06	12,500,000	3,000	3,000
2015	250	0.06	0.06	12,500,000	3,000	3,000
2016	250	0.06	0.06	12,500,000	3,000	3,000
2017	250	0.06	0.06	12,500,000	3,000	3,000
2018	250	0.06	0.06	12,500,000	3,000	3,000
2019	250	0.06	0.06	12,500,000	3,000	3,000

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	266	0.06	0.06	13,316,250	3,196	3,196
2012	266	0.06	0.06	13,316,250	3,196	3,196
2013	266	0.06	0.06	13,316,250	3,196	3,196
2014	266	0.06	0.06	13,316,250	3,196	3,196
2015	266	0.06	0.06	13,316,250	3,196	3,196
2016	266	0.06	0.06	13,316,250	3,196	3,196
2017	266	0.06	0.06	13,316,250	3,196	3,196
2018	266	0.06	0.06	13,316,250	3,196	3,196
2019	266	0.06	0.06	13,316,250	3,196	3,196

Impact Evaluation Plan

Participating customers' electrical usage will be reduced by modifying habits and behaviors to be more energy efficient. A statistical billing analysis will be conducted following program implementation, and will represent the primary method used to estimate energy impacts.

Cost-Effectiveness

The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$11,186	\$17,656	-\$6,470	0.63
Participant	\$11,390	\$0	\$11,390	9999
Total Resource Cost	\$11,186	\$6,266	\$4,920	1.79

PROGRAM: Behavior Modification - RIM

			BENEFITS	-				COSTS					
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)	(6) TOTAL	(7) INCREASED	(8) INCREASED	(9) UTILITY	(10)	(11)	(12)	(13)
	FUEL & O&M	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	1,369	69	0	0	1,438	0	0	0	850	0	1,797	2,647	-1,210
2012	1,215	69	0	0	1,283	0	0	0	900	0	1,757	2,657	-1,374
2013	1,469	69	354	0	1,891	0	0	0	950	0	1,843	2,793	-902
2014	1,142	69	557	0	1,768	0	0	0	1,000	0	1,910	2,910	-1,142
2015	1,277	69	566	0	1,912	0	0	0	1,050	0	2,070	3,120	-1,208
2016	1,332	69	752	0	2,152	0	0	0	1,100	0	2,042	3,142	-989
2017	1,402	69	788	0	2,259	0	0	0	1,150	0	1,800	2,950	-691
2018	1,383	69	666	0	2,118	0	0	0	1,200	0	1,731	2,931	-813
2019	1,407	69	680	0	2,156	0	0	0	1,250	0	1,801	3,051	-896
2020	0	0	0	0	0	0	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	0	0
2023	0	0	0	0	0	0	0	0	0	0	0	0	0
2024	0	0	0	0	0	0	0	0	0	0	0	0	0
2025	0	0	0	0	0	0	0	0	0	0	0	0	0
2026	0	0	0	0	0	0	0	0	0	0	0	0	0
2027	0	0	0	0	0	0	0	0	0	0	0	0	0
2028	0	0	0	0	0	0	0	0	0	0	0	0	0
2029	0	0	0	0	0	0	0	0	0	0	0	0	0
2030	0	0	0	0	0	0	0	0	0	0	0	0	0
2031	0	0	0	0	0	0	0	0	0	0	0	0	0
2032	0	0	0	0	0	0	0	0	0	0	0	0	0
2033	0	0	0	0	0	0	0	0	0	0	0	0	0
2034	0	0	0	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	11,996	618	4,363	0	16,977	0	0	0	9,450.000	0	16,752	26,202	-9,224
NPV	8,128	420	2,638	0	11,186	0	0	0	6,266	0	11,390	17,656	-6,470

Utility Discount Rate = 8.48

Benefit Cost Ratio = 0.634

PROGRAM: Behavior Modification - Participant

		BEN	EFITS			COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
	SAVINGS IN		OTHER			PARTICIPANT'S				
	PARTICIPANT'S INCENTIVE PARTICIPANT'S TO		TOTAL	PARTICIPANT'S	BILL	TOTAL	NET			
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	BENEFITS		
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)		
2010	0	0	0	0	0	0	0	0		
2011	1,797	0	0	1,797	0	0	0	1,797		
2012	1,757	0	0	1,757	0	0	0	1,757		
2013	1,843	0	0	1,843	0	0	0	1,843		
2014	1,910	0	0	1,910	0	0	0	1,910		
2015	2,070	0	0	2,070	0	0	0	2,070		
2016	2,042	0	0	2,042	0	0	0	2,042		
2017	1,800	0	0	1,800	0	0	0	1,800		
2018	1,731	0	0	1,731	0	0	0	1,731		
2019	1,801	0	0	1,801	0	0	0	1,801		
2020	0	0	0	0	0	0	0	0		
2021	0	0	0	0	0	0	0	0		
2022	0	0	0	0	0	0	0	0		
2023	0	0	0	0	0	0	0	0		
2024	0	0	0	0	0	0	0	0		
2025	0	0	0	0	0	0	0	0		
2026	0	0	0	0	0	0	0	0		
2027	0	0	0	0	0	0	0	0		
2028	0	0	0	0	0	0	0	0		
2029	0	0	0	0	0	0	0	0		
2030	0	0	0	0	0	0	0	0		
2031	0	0	0	0	0	0	0	0		
2032	0	0	0	0	0	0	0	0		
2033	0	0	0	0	0	0	0	0		
2034	0	0	0	0	0	0	0	0.		
2035	0	0	0	0	0	0	0	0		
2036	0	0	0	0	0	0	0	0		
2037	.0	0	0	0	0	0	0	0		
2038	0	0	0	0	0	0	0	0		
MINAL	16,752	0	0	16,752	0	0	0	16,752		
V	11,390	0	0	11,390	0	0	0	11,390		

Utility Discount Rate = 8.48

Benefit Cost Ratio = 9999

PROGRAM: Behavior Modification - TRC

			BENEFT	rs			COSTS					
LT.	(1) TOTAL FUEL & O&M SAVINGS	COSTS	GEN. CAP. COSTS	(4) OTHER PARTICIPANT'S BENEFITS	(5) TOTAL BENEFITS	(6) PARTICIPANT'S COST	(7) TOTAL FUEL & O&M INCREASE	(8) INCREASED T&D CAP. COSTS	(9) INCREASED GEN. CAP. COSTS	(10) UTILITY PROGRAM COSTS	(11) TOTAL COSTS	(12) NET BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	1,369	69	0	0	1,438	0	0	0	0	850	850	588
2012	1,215	69	0	0	1,283	0	0	0	0	900	900	383
2013	1,469	69	354	0	1,891	0	0	0	0	950	950	941
2014	1,142	69	557	0	1,768	0	0	0	0	1,000	1,000	768
2015	1,277	69	566	0	1,912	0	0	0	0	1,050	1,050	862
2016	1,332	69	752	0	2,152	0	0	0	0	1,100	1,100	1,052
2017	1,402	69	788	0	2,259	0	0	0	0	1,150	1,150	1,109
2018	1,383	69	666	0	2,118	0	0	0	0	1,200	1,200	918
2019	1,407	69	680	0	2,156	0	0	0	0	1,250	1,250	906
2020	0	0	0	0	0	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	0
2023	0	0	0	0	0	0	0	0	0	0	0	0
2024	0	0	0	0	0	0	0	0	0	0	0	0
2025	0	0	0	0	0	0	0	0	0	0	0	0
2026	0	0	0	0	0	0	0	0	0	0	0	0
2027	0	0	0	0	0	0	0	0	.0	0	0	0
2028	0	0	0	0	0	0	0	0	0	0	0	0
2029	0	0	0	0	0	0	0	0	0	0	0	0
2030	0	0	0	0	0	0	0	0	0	0	0	0
2031	0	0	0	0	0	0	0	0	0	0	0	0
2032	0	0	0	0	0	0	0	0	0	0	0	0
2033	0	0	0	0	0	0	0	0	0	0	0	0
2034	0	0	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0	0
OMINAL	11,996	618	4,363	_0	16,977	0	0	0	0	9,450	9,450	7,527
PV	8,128	420	2,638	0	11,186	0	0	0	0	6,266	6,266	4,920

Utility Discount Rate = 8.48

Benefit Cost Ratio = 1.785

H. RESIDENTIAL APPLIANCE RECYCLING PROGRAM

Program Start Date:

Proposed to start in 2011

Program Description

The Appliance Recycling Program is designed to reduce energy usage by removing less efficient

refrigerators and freezers that are operating within residences across the PEF service territory.

The program will include scheduling and free appliance pick-up at the customer's location,

transportation to a recycling facility, and recovery and recycling of appliance materials.

Policies and Procedures

The program provides residential customers free pick-up and an incentive for allowing PEF to

collect and recycle their less efficient refrigerator or freezer; permanently removing the unit from

service. All PEF residential customers will be eligible to participate in this program. Customers

will receive free removal and recycling of their appliance, as well as a \$50 incentive per

appliance for participation, with a limit of two units recycled per year per account. Customers

must own the appliance and each must be between 10-30 cubic feet, accessible, plugged-in,

100

cooling, and empty to qualify for the program.

Program Participation

Annual participation estimates for the Appliance Recycling Program are shown in the following table.

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	1,473,688	1,473,688	7,251	0.5%
2012	1,495,098	1,495,098	11,025	1.2%
2013	1,521,451	1,521,451	11,175	1.9%
2014	1,548,531	1,548,531	11,251	2.6%
2015	1,575,167	1,575,167	11,475	3.3%
2016	1,600,448	1,600,448	11,700	4.0%
2017	1,624,503	1,624,503	11,925	4.7%
2018	1,647,724	1,647,724	12,075	5.3%
2019	1,671,277	1,671,277	12,225	6.0%

The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan. The entire residential class is eligible for participation

Number of participants represents the customers that Progress Energy expects to reach through direct offerings in each year. Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total program savings based on the removal of the older, less efficient unit from the home and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	경기 경기가 있는 때 이 내가 그렇게 나를 가장하는 것이 그리네요. 이 개를 받는		Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	803	0.09	0.09	5,823,087	685	685
2012	803	0.09	0.09	8,853,912	1,042	1,042
2013	803	0.09	0.09	8,974,353	1,056	1,056
2014	803	0.09	0.09	9,035,387	1,063	1,063
2015	803	0.09	0.09	9,215,275	1,084	1,084
2016	803	0.09	0.09	9,395,978	1,106	1,106
2017	803	0.09	0.09	9,576,680	1,127	1,127
2018	803	0.09	0.09	9,697,120	1,141	1,141
2019	803	0.09	0.09	9,817,602	1,155	1,155

t the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	856	0.10	0.10	6,203,334	730	730
2012	856	0.10	0.10	9,432,073	1,110	1,110
2013	856	0.10	0.10	9,560,378	1,125	1,125
2014	856	0.10	0.10	9,625,397	1,133	1,133
2015	856	0.10	0.10	9,817,033	1,155	1,155
2016	856	0.10	0.10	10,009,535	1,178	1,178
2017	856	0.10	0.10	10,202,037	1,201	1,201
2018	856	0.10	0.10	10,330,342	1,216	1,216
2019	856	0.10	0.10	10,458,692	1,231	1,231

Impact Evaluation Plan

The impact evaluation plan for this program will use engineering simulation and statistical billing analysis as the primary method to estimate demand and energy impacts.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

	NPV Benefits	NPV Costs \$	NPV Net	
Cost-Effectiveness Test	\$(000)	(000)	Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$49,395	\$72,751	-\$23,356	0.68
Participant	\$66,264	\$3,009	\$63,255	22.02
Total Resource Cost	\$49,395	\$9,496	\$39,899	5.2

PROGRAM: Appliance Recycling - RIM

			BENEFITS				COSTS						
	(1) TOTAL FUEL & O&M			(4) REVENUE	(5) TOTAL	(6) TOTAL FUEL & O&M	(7) INCREASED T&D CAP.	(8) INCREASED GEN, CAP.	(9) UTILITY PROGRAM	(10)			(13) NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PA YMENTS			BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	591	15	0	0	605	0	0	0	624	776	838	2,237	-1,632
2012	1,324	37	0	0	1,360	0	0	0	981	1,202	2,064	4,247	-2,887
2013	2,457	60	338	0	2,854	0	0	- 0	1,028	1,240	3,486	5,755	-2,901
2014	2,807	82	735	0	3,624	0	0	0	1,069	1,271	4,995	7,335	-3,711
2015	4,123	106	958	0	5,186	0	0	0	1,125	1,320	6,938	9,383	-4,197
2016	5,111	129	1,007	0	6,247	0	0	0	1,182	1,369	8,376	10,927	-4,680
2017	5,903	153	1,253	O	7,309	0	0	0	1,240	1,419	8,766	11,425	-4,116
2018	6,838	178	1,898	0	8,913	0	0	0	1,292	1,461	9,774	12,527	-3,614
2019	8,062	202	2,206	0	10,470	0	0	0	1,357	1,504	11,584	14,445	-3,974
2020	8,196	202	2,252	0	10,651	0	0	0	0	0	11,865	11,865	-1,215
2021	7,986	188	2,133	0	10,307	0	0	0	0	0	11,794	11,794	-1,488
2022	7,674	165	1,027	0	8,866	0	0	0	0	0	10,469	10,469	-1,602
2023	7,022	143	1,481	0	8,646	0	0	0	0	0	9,260	9,260	-615
2024	5,651	120	1,300	0	7,071	0	0	0	0	0	7,955	7,955	-885
2025	4,719	97	1,067	0	5,883	0	0	0	0	0	6,577	6,577	-694
2026	3,972	73	531	0	4,577	0	0	0	0	0	5,080	5,080	-503
2027	2,592	49	644	0	3,285	0	0	0	0	0	3,489	3,489	-204
2028	1,347	25	332	0	1,703	0	0	0	0	0	1,794	1,794	-92
2029	0	0	0	0	0	0	0	0	0	0	0	0	0
2030	0	0	0	0	0	0	0	0	0	0	0	0	0
2031	0	0	0	0	0	0	0	0	0	0	0	0	0
2032	0	0	0	0	0	0	0	0	0	0	0	0	0
2033	0	0	0	0	0	0	0	0	0	0	0	0	0
2034	0	0	0	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0 -	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0	0	0
					100.000			-	0.007	11.500	105.161	146.562	20.000
NOMINAL	86,369	2,025	19,164	0	107,558	0	0	0	9,897	11,562	125,104	146,563	-39,006
NPV	39,740	961	8,694	0	49,395	0	0	0	6,487	7,632	58,632	72,751	-23,356

Utility Discount Rate = 8.48

Benefit Cost Ratio = 0.679

PROGRAM: Appliance Recycling - Participant

	-	BEN	EFITS			COSTS		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SA VINGS IN		OTHER			PARTICIPANT'S		
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	BILL	TOTAL	NET
	BILL	PA YM ENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0
2011	838	776	0	1,614	289	0	289	1,324
2012	2,064	1,202	0	3,266	455	0	455	2,811
2013	3,486	1,240	0	4,727	477	0	477	4,250
2014	4,995	1,271	0	6,266	496	0	496	5,770
2015	6,938	1,320	0	8,258	522	0	522	7,736
2016	8,376	1,369	0	9,745	549	0	549	9,196
2017	8,766	1,419	0	10,185	576	0	576	9,609
2018	9,774	1,461	0	11,235	600	0	600	10,635
2019	11,584	1,504	0	13,088	625	0	625	12,463
2020	11,865	0	0	11,865	0	0	0	11,865
2021	11,794	0	0	11,794	0	0	0	11,794
2022	10,469	0	0	10,469	0	0	0	10,469
2023	9,260	0	0	9,260	0	0	0	9,260
2024	7,955	0	0	7,955	0	0	0	7,955
2025	6,577	0	0	6,577	0	0	0	6,577
2026	5,080	0	0	5,080	0	0	0	5,080
2027	3,489	0	0	3,489	0	0	0	3,489
2028	1,794	0	0	1,794	0	0	0	1,794
2029	0	0	0	0	0	0	0	0
2030	0	0	0	0	0	0	0	0
2031	0	0	0	0	0	0	0	0
2032	0	0	0	0	0	0	0	0
2033	0	0	0	0	0	0	0	0
2034	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	.0
2038	0	0	0	0	0	0	0	0
DMINAL	125,104	11,562	0	136,666	4,590	0	4,590	132,076
v	58,632	7,632	0	66,264	3,009	0	3,009	63,255

Utility Discount Rate = 8.48

Benefit Cost Ratio = 22.022

PROGRAM: Appliance Recycling - TRC

			BENEFII	S				COSTS				
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4) OTHER	(5)	(6)	(7) TOTAL	(8) INCREASED	(9) INCREASED	(10) UTILITY	(11)	(12)
	FUEL & O&M	T&D CAP.	GEN. CAP.	PARTICIPANT'S	TOTAL	PARTICIPANT'S	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFIT:
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	591	15	0	0	605	289	0	0	0	624	913	-308
2012	1,324	37	0	0	1,360	455	0	0	0	981	1,437	-76
2013	2,457	60	338	0	2,854	477	0	0	0	1,028	1,505	1,349
2014	2,807	82	735	0	3,624	496	0	0	0	1,069	1,565	2,059
2015	4,123	106	958	0	5,186	522	0	0	0	1,125	1,647	3,539
2016	5,111	129	1,007	0	6,247	549	0	0	0	1,182	1,730	4,516
2017	5,903	153	1,253	0	7,309	576	0	0	0	1,240	1,816	5,493
2018	6,838	178	1,898	0	8,913	600	0	0	0	1,292	1,892	7,021
2019	8,062	202	2,206	0	10,470	625	0	0	0	1,357	1,982	8,489
2020	8,196	202	2,252	0	10,651	0	0	0	0	0	0	10,651
2021	7,986	188	2,133	0	10,307	0	0	0	0	0	0	10,307
2022	7,674	165	1,027	0	8,866	0	0	0	0	0	0	8,866
2023	7,022	143	1,481	0	8,646	0	0	0	0	0	0	8,646
2024	5,651	120	1,300	0	7,071	0	0	0	0	0	0	7,071
2025	4,719	97	1,067	0	5,883	0	0	0	0	0	0	5,883
2026	3,972	73	531	0	4,577	0	0	0	0	0	0	4,577
2027	2,592	49	644	0	3,285	0	0	0	0	0	0	3,285
2028	1,347	25	332	0	1,703	0	0	0	0	0	0	1,703
2029	0	0	0	0	0	0	0	0	0	0	0	0
2030	0	0	0	0	0	0	0	0	0	0	0	0
2031	0	0	0	0	0	0	0	0	0	0	0	0
2032	0	0	0	0	0	0	0	0	0	0	0	0
2033	0	0	0	0	0	0	0	0	0	0	0	0
2034	0	0	0	0	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0	0
MINAL	86,369	2,025	19,164	0	107,558	4,590	0	0	0	9,897	14,487	93,071
V	39,740	961	8,694	0	49,395	3,009	0	0	0	6,487	9,496	39,899

Utility Discount Rate = 8.48
Benefit Cost Ratio = 5.202

V. COMMERCIAL/INDUSTRIAL CONSERVATION PROGRAMS

Progress Energy's Demand Side Management Plan includes ten (10) Commercial/Industrial programs:

- Business Energy Check Commercial/Industrial energy audits
- Better Business program for existing facilities
- Commercial/Industrial New Construction program for new construction facilities
- Business Energy Saver low-income energy conservation program
- Commercial Green Building New Construction new facilities program to achieve optimal energy efficiency
- Innovation Incentive program of custom measures
- Standby Generation Rate Tariff GSLM-2
- Interruptible Service Rate Tariff IS-2
- Curtailable Service Rate Tariff CS-2
- Business Energy Response program designed to reduce system peak demand and increase renewable energy generation on the Progress Energy grid.

BUSINESS ENERGY CHECK PROGRAM A.

Program Start Date:

1995

Modifications proposed in 2010

Program Description

The Business Energy Check is a commercial energy audit program that provides commercial

customers with an analysis of their energy use as well as recommendations on how they can save

on their electricity bill. The audit focuses on education and encouraging customers to implement

minimal cost energy-saving practices and measures. The audit also provides Progress Energy the

opportunity to promote cost effective measures in customers' facilities. The Business Energy

Check program serves as the foundation for other commercial, industrial and governmental

Demand Side Management programs.

The Business Energy Check program offers the following types of energy audits:

Type 1: Free Walk-Through

Type 2: Paid Walk-Through

Type 3: Customer Online (Internet Option)

Type 4: Customer Phone-Assisted.

Policies and Procedures

All commercial, industrial, and governmental customers of Progress Energy are eligible to receive any of the above mentioned audit types conducted on commercial metered buildings located in Progress Energy's service territory. There is no charge for Type 1, Type 3 and Type 4 audits, while there is a nominal customer charge for the Type 2 energy analysis. When a customer requests a Business Energy Check, they will be given the option of any of the above offered audit types. Progress Energy reserves the option to work with other agencies and/or companies as an extension of the Business Energy Check service. The specific details on the procedures for each type of audit will be presented in the Program Participation Standards.

Customers participating in all audit types will be provided with sustainable educational and behavioral energy saving examples of easily installed energy conservation measures to reduce energy consumption. The program promotes continued customer involvement by demonstrating sustainable and measureable energy reduction in the business' energy consumption by the implementation of low-cost energy conservation measures.

The customer will receive a Commercial Energy Efficiency Kit via the following methods:

- At the time of the onsite Business Energy Check
- Through the mail following completion of the online or phone assisted audit.

Progress Energy is proposing to include the following measures with this program:

Lighting

This measure will provide customers with up to three (3) compact fluorescent light bulbs to upgrade an existing incandescent fixture located in their lighting systems. This demonstration will encourage additional lighting energy conservation measures changes within the facility.

Indoor Room Thermometer

This measure will provide one room thermometer per business. This measure will establish a reference point for customers to select an energy savings setting for the HVAC system thermostat.

Refrigerator Thermometer

This measure will provide one thermometer in the food or freezer compartment of the refrigerator. This measure will establish a reference point for customers to select an energy savings setting for the refrigeration system thermostat.

Power Conservation Strip

This measure will provide a power conservation strip to reduce idle energy use when appliances are not in operation. The ease of installation and the demonstration of immediate energy reduction will encourage additional customer participation.

Change Filter Calendar

This portion of the program will provide each business a Progress Energy magnetic calendar to help remind them to clean or change the HVAC filter monthly to facilitate optimal HVAC performance.

Additional Kit Components

The energy conservation measure kit will also include educational tools that will assist the business owner in making decisions about their energy use. Examples of these educational tools include, but are not limited to the following:

Energy Use Data Sheet

A common appliance and equipment energy use data sheet will be provided to the customer. This will demonstrate to the customer examples where energy is being utilized within their facility, encouraging the customer to make behavior changes to reduce energy consumption.

Facility Setback Procedure

This measure will provide a suggested setback process for relative facilities. The process can be used as behavior modification training for employees or as a poster located at entrances and exits of the facility. It will provide a point of reference to remind employees to choose the best energy saving setting for the facility when shutting down.

Program Participation

Annual participation estimates for the Business Energy Check program are shown in the following table:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	170,886	3,000	1.8%
2012	175,147	175,147	3,090	3.5%
2013	178,542	178,542	3,214	5.2%
2014	182,030	182,030	3,375	7.0%
2015	185,461	185,461	3,611	8.8%
2016	188,717	188,717	3,792	10.6%
2017	191,817	191,817	3,906	12.5%
2018	194,809	194,809	4,023	14.4%
2019	197,848	197,848	4,063	16.2%

The total number of customers is the forecast of commercial/industrial (C/I) customers in Progress Energy's 2009 Ten Year Site Plan.
 All commercial, industrial and governmental rate classes are eligible to participate.

Number of program participants represents the participants projected.
 Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and, annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables:

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	434	0.11	0.26	1,300,500	321	773
2012	442	0.11	0.26	1,365,525	337	812
2013	445	0.11	0.26	1,430,550	353	850
2014	439	0.11	0.26	1,482,570	366	881
2015	265	0.06	0.11	958,230	211	386
2016	248	0.05	0.10	941,850	207	380
2017	235	0.05	0.09	917,280	202	370
2018	224	0.05	0.09	900,900	198	363
2019	222	0.05	0.09	900,900	198	363

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	457	0.11	0.27	1,371,637	338	815
2012	466	0.11	0.28	1,440,219	355	856
2013	469	0.12	0.28	1,508,801	372	897
2014	463	0.11	0.28	1,563,667	386	929
2015	280	0.06	0.11	1,010,645	222	407
2016	262	0.06	0.11	993,369	218	400
2017	248	0.05	0.10	967,455	213	390
2018	236	0.05	0.10	950,179	209	383
2019	234	0.05	0.09	950,179	209	383

Impact Evaluation Plan

The range of possible recommendations resulting from the audit, and the inclusion of both technological and behavioral recommendations suggests the need to carefully survey participants to determine what specific actions have been undertaken due to the completed audit. Initially, the use of site-specific engineering estimates is likely to be the most cost-effective method of estimating program impacts, although the use of statistical analysis technique may also be considered, depending on the participation levels actually achieved.

B. BETTER BUSINESS PROGRAM

Program Start Date:

1995

Program modified 2000, 2005, 2006 and 2007

Modifications proposed in 2010

Program Description

The Better Business program is designed for existing Commercial, Industrial, and Governmental customers who want to retrofit with high efficiency improvements. All business customers are eligible for this program. The Better Business program builds on customer awareness, utilizing the various audit types, contractor participation, and Progress Energy promotion to educate customers on cost effective measures relevant to their businesses.

The program seeks to meet the following overall goals:

- Provide the market place with a cost-effective comprehensive program portfolio of measures across all building types
- Improve customer energy savings and demand reduction through the installation of energy efficient equipment and thermal envelope upgrades
- Obtain energy and demand reductions that are significant, accurate and measurable

• Educate the commercial retrofit market about best practices, innovative technologies and opportunities to participate in other non-Progress Energy incentives for managing energy consumption.

Policies and Procedures

The general eligibility requirements are as follows:

- Must have been influenced by one of Progress Energy's educational opportunities
- The facility must be a commercially metered customer in Progress Energy service territory.

Commercial multi-family is defined as commercially metered accounts of multi-family residential apartments or condominiums, or assisted living residential apartment units. Any multi-family residential dwellings that are metered (referred to as "Domestic/Commercial") shall be eligible to participate in this program.

Progress Energy reserves the right to inspect the installation of measures and equipment prior to issuing any incentive payments.

Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions such as baseline or code revisions, updated measurement and valuation analysis, or technological advances.

Progress Energy is proposing to include the following measures with this program:

HVAC Equipment & Heat Pump Water Heaters

The HVAC equipment component of Better Business provides customers with information on high efficiency HVAC equipment and financial incentives for the purchase of high efficiency unitary heat pumps and air conditioners including heat pump water heaters, hybrid desiccant and geothermal units, thermal energy storage systems, package terminal heat pumps and package terminal air conditioners, water-cooled chillers, air-cooled chillers, EMS Chiller Optimization, and high efficiency straight cool air conditioners 14 to 19+ SEER. The Better Business HVAC measures also provide PEF customers with a one-time incentive to maintain/recommission and/or repair their current rooftop package DX units. The incentives will be based on a per unit basis. PTAC/PTHP coil cleaning is also a one-time incentive to stimulate the annual maintenance of customer's equipment. Hotel AC sensors for controlling HVAC systems during unoccupied periods in hotel rooms will be offered as a per room incentive. Variable Speed Drive controls and Variable Speed Drives for Chiller and Cooling Tower Pump incentives will also be offered under this program.

Energy Recovery Ventilation / Demand Control Ventilation / Heat Pipes / Exhaust Hood Optimization

The program promotes the installation of high efficiency energy recovery ventilation units in the conditioned air stream for customers using electric cooling and heating. These units are capable of removing over 70% of the sensible heat and over 60% of the latent heat when properly sized and installed. To qualify for Progress Energy's incentive, the energy recovery ventilation must

meet qualifications outlined in the Program Participation Standards. Demand Control Ventilation will provide incentives for the installation of Demand Control Ventilation using *C02* sensors. Demand Control Ventilation saves energy by automatically adjusting building ventilation rates in real time based on occupancy. Heat Pipe technology for pre-conditioning fresh air will also be incented and must meet the Program Participation Standards. Exhaust hood controls for varying ventilation will be included as an incentive.

Duct Leakage Test and Repair

This portion of the program is designed to promote energy efficiency through improved duct system sealing. This program component applies to HVAC equipment and systems that are no larger than 65,000 Btu/h. A customer must have electric heating and a centrally-ducted cooling system, either air conditioning or heat pump, to be eligible for this program.

Efficient Indoor lighting

This measure will provide customers with an incentive to upgrade their lighting systems to an approved lighting technology. The following technologies will be included: Premium T-8's and T-5's, occupancy sensors, ceramic metal halides, LED display lighting, Induction/Cold cathode, CFL lamps with integral ballast, and CFL hardwire fixtures. The Program Participation Standards will outline the incentive adjustments due to code changes.

Ceiling Insulation Upgrade

This portion of the program encourages customers to add insulation to the conditioned ceiling area by paying for a portion of the installed cost. The facility must meet the Program Participation Standard requirements in order to qualify for this measure.

Cool Roof / Green Roof/Roof Insulation

The cool roof measure will provide customers with an incentive to install an approved "cool roof" providing the facility has electric cooling. Customers must meet the specifications for solar reflectance and reliability, having initial reflectance as outlined in the Program Participation Standards. The green roof measure will provide an incentive for customers to install an approved green roof on their facility. The roof insulation measure encourages customers to add insulation to the conditioned roof area.

Efficient Compressed Air System

This measure will provide an incentive to encourage business customers to utilize a proactive approach to increase the efficiency of compressed air systems. The customer must provide a preand post-analysis of the system in order to be eligible for incentives.

Efficient Motors

This measure promotes the installation of certain high efficiency polyphase motors through a simple incentive structure based on the motor size and a specified \$/hp. The specific incentive amount will be a function of the motor size and efficiency.

Window Film / Solar Screen

This measure provides an incentive to install window film or solar screen on windows having east, west, and south exposures. The qualifying facilities and requirements are outlined in the Program Participation Standards.

Refrigeration

This measure provides an incentive to install energy efficient devices to reduce energy consumption of refrigeration equipment. The eligible devices include vending machine controls, and high efficiency ice makers.

Building Commissioning

This measure provides an incentive to customers for conducting whole building commissioning.

The requirement and incentives will be outlined in the Program Participation Standards.

Incentive Levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in the market conditions, such as baseline or code revisions, updated measures and valuation analysis or technological advances.

Program Participation

Annual participation estimates for the Better Business program are shown in the following table.

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	170,886	10,074	5.9%
2012	175,147	175,147	9,003	10.9%
2013	178,542	178,542	6,610	14.4%
2014	182,030	182,030	5,993	17.4%
2015	185,461	185,461	4,683	19.6%
2016	188,717	188,717	4,019	21.4%
2017	191,817	191,817	2,678	22.4%
2018	194,809	194,809	2,474	23.4%
2019	197,848	197,848	2,276	24.2%

The total number of customers is the forecast of Commercial/Industrial customers in Progress Energy's 2009 Ten Year Site Plan.

All Commercial, Industrial and Governmental rate classes are eligible to participate.
 Number of program measure participants represents the participants projected.
 Cumulative penetration is the ratio of cumulative measure participants to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and, annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	5,656	0.80	1.84	56,979,019	8,071	18,514
2012	5,876	0.77	1.90	52,907,262	6,928	17,078
2013	6,447	0.64	2.01	42,619,503	4,263	13,308
2014	7,026	0.59	2.16	42,109,357	3,564	12,942
2015	7,081	0.60	2.17	33,164,836	2,788	10,183
2016	7,082	0.60	2.17	28,460,945	2,393	8,739
2017	7,084	0.60	2.18	18,968,322	1,596	5,825
2018	7,082	0.60	2.17	17,522,466	1,474	5,380
2019	7,083	0.60	2.17	16,123,225	1,357	4,949

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	5,965	0.85	1.94	60,095,771	8,513	19,527
2012	6,198	0.81	2.00	55,801,289	7,307	18,012
2013	6,800	0.68	2.12	44,950,790	4,496	14,036
2014	7,410	0.63	2.28	44,412,739	3,759	13,650
2015	7,469	0.63	2.29	34,978,953	2,940	10,740
2016	7,470	0.63	2.29	30,017,758	2,524	9,217
2017	7,471	0.63	2.29	20,005,890	1,683	6,144
2018	7,470	0.63	2.29	18,480,945	1,555	5,674
2019	7,470	0.63	2.29	17,005,166	1,431	5,220

Impact Evaluation Plan

The Better Business program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels. These analyses are supported by end-use metering data where feasible.

Cost Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$299,260	\$287,368	\$11,892	1.04
Participant	\$255,252	\$58,557	\$196,695	4.36
Total Resource Cost	\$299,260	\$90,673	\$208,587	3.30

PROGRAM:	Better Bus	iness	RIM												
			BENEFITS							COSTS					
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)	-	(6) TOTAL	(7) NCREA SEI	(8) NCREA SEL	(9) UTILITY	(10)		(11)	(12)	(13)
	FUEL & O&N SA VINGS	T&D CAP. COSTS	GEN. CAP. COSTS	REVENUE GAINS	TOTAL BENEFITS			T&D CAP.		PROGRAM COSTS	INCENTIVE PA YMENTS		REVENUE LOSSES	TOTAL COSTS	NET BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)		\$(000)	\$(000)	\$(000)	\$(000)	\$(000)		\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0		0	0	0	0	0		0	0	0
2011	6,424	335	0	0	6,759		0	0	0	6,746	5,616		7,117	19,479	-12,719
2012	10,929	645	0	0	11,574		0	0	0	6,713	5,335		13,373	25,421	-13,847
2013	19,022	882	5,799	0	25,704		0	0	0	7,505	6,893		19,567	33,965	-8,262
2014	17,791	1,113	11,490	0	30,394		0	0	0	8,169	9,057		26,021	43,246	-12,852
2015	22,720	1,292	13,540	0	37,551		0	0	0	6,645	7,311		33,323	47,279	-9,727
2016	26,443	1,399	15,317	0	43,159		0	0	0	5,884	6,416		36,005	48,305	-5,146
2017	33,818	1,467	11,507	0	46,791		0	0	0	4,047	4,378		33,002	41,427	5,364
2018	31,957	1,546	19,110	0	52,613		0	0	0	3,854	4,129		33,355	41,338	11,275
2019	33,855	1,620	20,425	0	55,901		0	0	0	3,663	3,893		36,671	44,226	11,675
2020	33,553	1,600	20,576	0	55,728		0	0	0	0	0		37,246	37,246	18,482
2021	33,239	1,560	20,480	0	55,279		0	0	0	0	0		39,393	39,393	15,887
2022	39,083	1,532	10,978	0	51,593		0	0	0	0	0		38,984	38,984	12,610
2023	40,675	1,494	17,874	0	60,043		0	0	0	0	0		38,989	38,989	21,055
2024	34,357	1,455	18,178	0	53,990		0	0	0	0	0		38,838	38,838	15,152
2025	34,055	1,418	18,022	0	53,495		0	0	0	0	0		38,853	38,853	14,642
2026	32,606	1,126	9,367	0	43,099		0	0	0	0	0		31,746	31,746	11,354
2027	22,710	864	12,892	0	36,466		0	0	0	0	0		25,180	25,180	11,286
2028	18,352	674	10,266	0	29,291		0	0	0	0	0		20,209	20,209	9,082
2029	15,759	498	4,607	0	20,864		0	0	0	0	0		15,408	15,408	5,456
2030	12,287	365	5,653	0	18,305		0	0	0	0	0		11,650	11,650	6,654
2031	8,670	245	3,955	0	12,871		0	0	0	0	0		8,140	8,140	4,730
2032	6,211	168	2,817	0	9,195		0	0	0	0	0		5,785	5,785	3,410
2033	3,719	94	1,640	0	5,453		0	0	0	0	0		3,469	3,469	1,984
2034	1,232	26	455	0	1,712		0	0	0	0	0		1,185	1,185	527
2035	1,073	21	374	0	1,467		0	0	0	0	0		1,031	1,031	436
2036	931	16	300	0	1,247		0	0	0	0	0		894	894	353
2037	837	13	252	0	1,102		0	0	0	0	0		806	806	295
2039	743	11	204	0	958		0	0	0	0	0	_	717	717	240
NOMINAL	543,047	23,480	256,078	0	822,605		0	0	0	53,225.106	53,027.978	7-	596,956	703,210	119,396
NPV	198,020	9,148	92,092	0	299,260		0	0	0	32,116	31,403		223,849	287,368	11,892

Utility Discount Rate: Benefit Cost Ratio: 1

8.48 **1.041**

		BEN	EFITS			COSTS			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)		(8)
	SAVINGS IN		OTHER			ARTICIPANT	"S	NE	T BENEF
	PARTICIPAN'	INCENTIV	E.RTICIPAN	TOTAL	PARTICIPANT'S	BILL	TOTAL		TO
	BILL	PAYMENT	S BENEFITS	BENEFITS	COST	INCREASE		PAI	RTICIPAL
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	_	\$(000)
2010	0	0	0	0	0	0	0		0
2011	7,117	5,616	0	12,733	13,500	0	13,500		-767
2012	13,373	5,335	0	18,708	12,921	0	12,921		5,786
2013	19,567	6,893	0	26,461	13,486	0	13,486		12,974
2014	26,021	9,057	0	35,077	14,479	0	14,479		20,598
2015	33,323	7,311	0	40,634	11,691	0	11,691		28,943
2016	36,005	6,416	0	42,421	10,262	0	10,262		32,159
2017	33,002	4,378	0	37,380	6,990	0	6,990		30,390
2018	33,355	4,129	0	37,484	6,604	0	6,604		30,880
2019	36,671	3,893	0	40,564	6,216	0	6,216		34,348
2020	37,246	0	0	37,246	0	0	0		37,246
2021	39,393	0	0	39,393	0	0	0		39,393
2022	38,984	0	0	38,984	0	0	0		38,984
2023	38,989	0	0	38,989	0	0	0		38,989
2024	38,838	0	0	38,838	0	0	0		38,838
2025	38,853	0	0	38,853	0	0	0		38,853
2026	31,746	0	0	31,746	0	0	0		31,746
2027	25,180	0	0	25,180	0	0	0		25,180
2028	20,209	0	0	20,209	0	0	0		20,209
2029	15,408	0	0	15,408	0	0	0		15,408
2030	11,650	0	0	11,650	0	0	0		11,650
2031	8,140	0	0	8,140	0	0	0		8,140
2032	5,785	0	0	5,785	0	0	0		5,785
2033	3,469	0	0	3,469	0	0	0		3,469
2034	1,185	0	0	1,185	0	0	0		1,185
2035	1,031	0	0	1,031	0	0	0		1,031
2036	894	0	0	894	0	0	0		894
2037	806	0	0	806	0	0	0		806
2039	717	0	0	717	0	0	0		717
NOMINAL	596,956	53,028	0	649,984	96,149	0	96,149	0	553,835
NPV	223,849	31,403	0	255,252	58,557	0	58,557	0	196,695
				Utility Discount Rate:	8.48				
				Benefit Cost Ratio:	4.359				

PROGRAM:	Better Busin	1.	RC									
			BENEFITS					COS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL	A VOIDED	A VOIDED	OTHER			TOTAL	INCREA SED		UTILITY		
	FUEL & O&M		GEN. CAP.	PARTICIPANT	TOTAL	PARTICIPANT			GEN. CAP.	PROGRAM	TOTAL	NET
	SA VINGS	COSTS	COSTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	6,424	335	0	0	6,759	13,500	0	0	.0	6,746	20,246	-13,487
2012	10,929	645	0	0	11,574	12,921	0	0	0	6,713	19,634	-8,061
2013	19,022	882	5,799	0	25,704	13,486	0	0	0	7,505	20,991	4,713
2014	17,791	1,113	11,490	0	30,394	14,479	0	0	0	8,169	22,648	7,746
2015	22,720	1,292	13,540	0	37,551	11,691	0	0	0	6,645	18,336	19,216
2016	26,443	1,399	15,317	0	43,159	10,262	0	0	0	5,884	16,146	27,013
2017	33,818	1,467	11,507	0	46,791	6,990	0	0	0	4,047	11,037	35,754
2018	31,957	1,546	19,110	0	52,613	6,604	0	0	0	3,854	10,458	42,155
2019	33,855	1,620	20,425	0	55,901	6,216	0	0	0	3,663	9,879	46,022
2020	33,553	1,600	20,576	0	55,728	0	0	0	0	0	0	55,728
2021	33,239	1,560	20,480	0	55,279	0	0	0	0	0	0	55,279
2022	39,083	1,532	10,978	0	51,593	0	0	0	0	0	0	51,593
2023	40,675	1,494	17,874	0	60,043	0	0	0	0	0	0	60,043
2024	34,357	1,455	18,178	0	53,990	0	0	0	0	0	0	53,990
2025	34,055	1,418	18,022	0	53,495	0	0	0	0	0	0	53,495
2026	32,606	1,126	9,367	0	43,099	0	0	0	0	0	0	43,099
2027	22,710	864	12,892	0	36,466	0	0	0	0	0	0	36,466
2028	18,352	674	10,266	0	29,291	0	0	0	0	0	0	29,291
2029	15,759	498	4,607	0	20,864	0	0	0	0	0	0	20,864
2030	12,287	365	5,653	0	18,305	0	0	0	0	0	0	18,305
2031	8,670	245	3,955	0	12,871	0	0	0	0	0	0	12,871
2032	6,211	168	2,817	0	9,195	0	0	0	0	0	0	9,195
2033	3,719	94	1,640	0	5,453	0	0	0	0	0	0	5,453
2034	1,232	26	455	0	1,712	0	0	0	0	0	0	1,712
2035	1,073	21	374	0	1,467	0	0	0	0	0	0	1,467
2036	931	16	300	0	1,247	0	0	0	0	0	0	1,247
2037	837	13	252	0	1,102	0	0	0	0	0	0	1,102
2039	743	11	204	0	958	0	0	0	0	0	0	958
NOMINAL	543,047	23,480	256,078	0	822,605	96,149	0	0	0	53,225	149,375	673,231
NPV	198,020	9,148	92,092	0	299,260	58,557	0	0	0	32,116	90,673	208,587
	,	-,	,	-	,	20,227		~		24,110	20,015	200,501

Utility Discount Rate: 8.48
Benefit Cost Ratio: 3.300

C. COMMERCIAL/INDUSTRIAL NEW CONSTRUCTION PROGRAM

Program Start Date:

1995

Program modified in 2000, 2005, 2006 and 2007

Modifications proposed in 2010

Program Description

The Commercial/Industrial New Construction program is designed to improve the energy efficient construction of commercial buildings.

The program seeks to meet the following overall goals:

- Provide a cost-effective, comprehensive program portfolio of measures across all building types
- Educate the commercial new construction industry about energy efficient commercial building design
- Evaluate and recommend the most cost-effective energy efficient building envelope and equipment measures for the new construction market
- Obtain energy and demand impacts that are significant, accurate, and measurable
- Provide customers with current information of innovative technologies for managing energy consumption to maximize participation.

Policies and Procedures

The general eligibility requirements are as follows:

- Must have been influenced by one of Progress Energy's educational opportunities
- Equipment and measures must be installed in facilities that are commercially metered in Progress Energy service territory
- Progress Energy reserves the right to inspect the installation of measures and equipment
 prior to issuing any incentive payments
- The owner/builder or manufacturer must meet the requirements listed in the Program Participation Standards and comply with all state, local and federal codes.

Incentive Levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions such as baseline or code revisions, updated measures, and valuation analysis or technological advances.

Progress Energy is proposing to include the following measures with this program:

HVAC Equipment

The HVAC equipment component of Commercial/Industrial New Construction provides customers with information on high efficiency HVAC equipment and financial incentives for the purchase of high efficiency unitary heat pumps and air conditioners, hybrid desiccant and geothermal units, high efficient straight cool air conditioners, thermal energy storage, package terminal heat pumps, and water-cooled and air-cooled chillers. The incentive is calculated for each unit based on the KW difference between the high efficiency unit and the program-specified baseline efficiency. Variable Speed Drive controls and Variable Speed Drives for Chiller and Cooling Tower Pumps incentives will also be offered under this program.

Energy Recovery Ventilation / Demand Control Ventilation / Heat Pipes

The program promotes the installation of high efficiency energy recovery ventilation units in the conditioned air stream for customers using electric cooling and heating. These units are capable of removing over 70% of the sensible heat and over 60% of the latent heat when properly sized and installed. To qualify for Progress Energy's incentive, the energy recovery ventilation must meet Program Participation Standards qualifications. Demand Control Ventilation will provide incentives for the installation of Demand Control Ventilation using *C02* sensors. Demand Control Ventilation saves energy by automatically adjusting building ventilation rates in real time based on occupancy. An incentive will be offered for Heat Pipe technology for preconditioning fresh air and must meet the Program Participation Standards. Exhaust hood controls for varying ventilation will be included as an incentive.

Cool Roof / Green Roof / Roof Insulation

The cool roof measure will provide customers with an incentive to install an approved "cool roof" providing the facility has electric cooling. Customers must meet the specifications for solar reflectance and reliability, having initial reflectance as outlined in the Program Participation Standards. The green roof measure will provide an incentive for customers to install an approved green roof on their facility. The roof insulation measure encourages customers to add insulation to the conditioned roof area.

Efficient Indoor lighting

This measure will provide customers with an incentive to install lighting systems which are above code. The following technologies will be included: Premium T-8's and T-5's, occupancy sensors, ceramic metal halides, LED display lighting, and Induction/Cold cathode. The Program Participation Standards will outline the incentive adjustments due to code changes.

Window Film / Solar Screen

This measure promotes the purchase of windows that meet Progress Energy requirements for window film or solar screen on windows having east, west, and south exposures. The qualifying facilities and requirements are outlined in the Program Participation Standards.

Refrigeration

This measure provides an incentive to install energy efficient devices to reduce energy consumption of refrigeration equipment. These devices include vending machine controls and high efficiency ice makers.

Building Commissioning

This measure provides an incentive to customers for conducting whole building commissioning.

The requirement and incentives will be outlined in the Participation Standards.

Efficient Motors

This measure promotes the installation of certain high efficiency polyphase motors through a simple incentive structure based on the motor size and a specified \$/hp. The specific incentive amount will be a function of the motor size and efficiency.

Program Participation

Annual participation estimates for the Commercial/Industrial New Construction program are shown in the following table.

Year go	Total Number of	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	3,653	398	10.9%
2012	175,147	4,261	402	10.1%
2013	178,542	3,395	406	10.7%
2014	182,030	3,488	410	10.9%
2015	185,461	3,431	414	11.1%
2016	188,717	3,256	418	11.4%
2017	191,817	3,100	422	11.7%
2018	194,809	2,992	426	11.9%
2019	197,848	3,039	431	12.2%

^{1.} The total number of customers is the forecast of commercial/industrial (C/I) customers in Progress Energy's 2009 Ten Year Site Plan.

^{2.} All commercial, industrial and governmental rate class customers who build new metered facilities in a given year are eligible to participate.

^{3.} Number of program participants represents the measure participants projected.

^{4.} Cumulative penetration is the ratio of cumulative measure participants to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	10,102	1.48	3.97	4,017,177	590	1,577
2012	9,139	1.34	3.59	3,670,721	539	1,441
2013	10,073	2.23	4.15	4,086,195	906	1,683
2014	10,354	2.34	4.31	4,242,151	960	1,768
2015	7,812	1.83	3.35	3,232,620	758	1,387
2016	7,080	1.68	3.02	2,959,279	704	1,262
2017	6,625	1.74	2.95	2,796,474	733	1,243
2018	6,104	1.61	2.70	2,602,544	687	1,152
2019	5,930	1.58	2.61	2,553,471	681	1,125

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	10,654	1.56	4.18	4,236,917	622	1,663
2012	9,639	1.42	3.78	3,871,509	568	1,520
2013	10,624	2.36	4.38	4,309,710	956	1,775
2014	10,920	2.47	4.55	4,474,197	1,012	1,865
2015	8,239	1.93	3.53	3,409,445	800	1,462
2016	7,468	1.78	3.19	3,121,151	742	1,332
2017	6,987	1.83	3.11	2,949,442	773	1,311
2018	6,438	1.70	2.85	2,744,903	724	1,215
2019	6,254	1.67	2.75	2,693,146	719	1,186

Impact Evaluation Plan

The Commercial/Industrial New Construction program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels. These analyses are supported by end-use metering data where feasible.

Cost Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$29,734	\$29,503	\$231	1.01
Participant	\$25,935	\$13,362	\$12,573	1.94
Total Resource Cost	\$29,734	\$16,930	\$12,804	1.76

PROGRAM:	Commercia	al/indus trial	New Const	ruction	RIM								
			BENEFITS						COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	TOTAL	A VOIDED	A VOIDED			TOTAL 1	NCREA SEI	NCREASEL	UTILITY				
	FUEL & O&N	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	FUEL & O&N	T&D CAP.	GEN. CAP.	PROGRAM	I INCENTIVE	REVENUE	TOTAL	NET
	SA VINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PA YMENTS	LOSSES	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	464	26	0	0	490	0	0	0	636	763	502	1,900	-1,410
2012	782	50	0	0	831	0	0	0	602	718	936	2,255	-1,424
2013	1,522	76	489	0	2,087	0	0	0	761	1,115	1,513	3,389	-1,302
2014	1,507	104	1,051	0	2,662	0	0	0	836	1,492	2,146	4,474	-1,812
2015	1,981	126	1,287	0	3,394	0	0	0	696	1,244	2,826	4,766	-1,371
2016	2,429	146	1,553	0	4,128	0	0	0	652	1,172	3,205	5,029	-901
2017	3,369	165	1,260	0	4,795	0	0	0	681	1,263	3,125	5,068	-274
2018	3,285	182	2,186	0	5,654	0	0	0	650	1,209	3,264	5,123	531
2019	3,588	199	2,436	0	6,223	0	0	0	653	1,223	3,706	5,582	641
2020	3,574	198	2,467	0	6,238	0	0	0	0	0	3,768	3,768	2,471
2021	3,327	183	2,325	0	5,836	0	0	0	0	0	3,786	3,786	2,050
2022	3,789	171	1,184	0	5,143	0	0	0	0	0	3,581	3,581	1,562
2023	3,738	157	1,816	0	5,711	0	0	0	0	0	3,397	3,397	2,314
2024	2,899	143	1,719	0	4,761	0	0	0	0	0	3,177	3,177	1,584
2025	2,703	131	1,598	0	4,432	0	0	0	0	0	3,003	3,003	1,429
2026	2,861	114	913	0	3,887	0	0	0	0	0	2,663	2,663	1,223
2027	2,142	96	1,393	0	3,631	0	0	0	0	0	2,308	2,308	1,323
2028	1,796	79	1,166	0	3,040	0	0	0	0	0	1,928	1,928	1,112
2029	1,637	62	551	0	2,250	0	0	0	0	0	1,537	1,537	713
2030	1,556	56	837	0	2,449	0	0	0	0	0	1,399	1,399	1,050
2031	1,299	46	720	0	2,065	0	0	0	0	0	1,144	1,144	921
2032	1,107	39	635	0	1,781	0	0	0	0	0	958	958	823
2033	883	31	521	0	1,434	0	0	0	0	0	758	758	676
2034	635	22	390	0	1,047	0	0	0	0	0	533	533	514
2035	507	18	319	0	844	0	0	0	0	0	423	423	421
2036	394	13	251	0	658	0	0	0	0	0	322	322	335
2037	267	9	174	0	450	0	0	0	0	0	218	218	233
2039	149	5	98	0	252	0	0	0	0	0	118	118	134
NOMINAL	54,185	2,648	29,339	0	86,173	0	0	0	6,166	10,199	56,244	72,609	13,563
NPV	18,783	977	9,974	0	29,734	0	0	0	3,568	5,731	20,204	29,503	231

Utility Discount Rate: 8.48

Benefit Cost Ratio: 1.008

PROGRAM: Commercial/industrial New Construction

Participant

		BEN	EFITS			COSTS			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	1,7 250	(8)
	SAVINGS IN	1	OTHER		PA	ARTICIPANT	"S	N	ET BENEFTI
	PARTICIPAN'	INCENTIVE	RTICIPAN	TOTAL	PARTICIPAN'	BILL	TOTAL		TO
	BILL	PA YMENT	BENEFITS	BENEFITS	COST	INCREASE	COSTS	PA	RTICIPAN
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)		\$(000)
2010	0	0	0	0	0	0	0		0
2011	502	763	0	1,265	2,534	0	2,534		-1,269
2012	936	718	0	1,653	2,367	0	2,367		-714
2013	1,513	1,115	0	2,628	2,862	0	2,862		-234
2014	2,146	1,492	0	3,638	3,102	0	3,102		536
2015	2,826	1,244	0	4,070	2,533	0	2,533		1,537
2016	3,205	1,172	0	4,377	2,368	0	2,368		2,008
2017	3,125	1,263	0	4,388	2,473	0	2,473		1,915
2018	3,264	1,209	0	4,473	2,350	0	2,350		2,123
2019	3,706	1,223	0	4,929	2,356	0	2,356		2,573
2020	3,768	0	0	3,768	0	0	0		3,768
2021	3,786	0	0	3,786	0	0	0		3,786
2022	3,581	0	0	3,581	0	0	0		3,581
2023	3,397	0	0	3,397	0	0	0		3,397
2024	3,177	0	0	3,177	0	0	0		3,177
2025	3,003	0	0	3,003	0	0	0		3,003
2026	2,663	0	0	2,663	0	0	0		2,663
2027	2,308	0	0	2,308	0	0	0		2,308
2028	1,928	0	0	1,928	0	0	0		1,928
2029	1,537	0	0	1,537	0	0	0		1,537
2030	1,399	0	0	1,399	0	0	0		1,399
2031	1,144	0	0	1,144	0	0	0		1,144
2032	958	0	0	958	0	0	0		958
2033	758	0	0	758	0	0	0		758
2034	533	0	0	533	.0	0	0		533
2035	423	0	0	423	0	0	0		423
2036	322	0	0	322	0	0	0		322
2037	218	0	0	218	0	0	0		218
2039	118	0	0	118	0	0	0		118
NOMINAL	56,244	10,199	0	66,443	22,945	0	22,945		43,498
NPV	20,204	5,731	0	25,935	13,362	0	13,362		12,573

Utility Discount Rate: 8.48
Benefit Cost Ratio: 1.941

			BENEFITS					CO	STS	85		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL	A VOIDED	A VOIDED	OTHER					CINCREA SEC			
	FUEL & O&N	T&D CAP.	GEN. CAP.	ARTICIPAN	TOTAL	PARTICIPAN					TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	BENEFITS	COST	INCREASE		COSTS	COSTS	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	464	26	0	0	490	2,534	0	0	0	636	3,169	-2,680
2012	782	50	0	0	831	2,367	0	0	0	602	2,969	-2,138
2013	1,522	76	489	0	2,087	2,862	0	0	0	761	3,622	-1,535
2014	1,507	104	1,051	0	2,662	3,102	0	0	0	836	3,938	-1,276
2015	1,981	126	1,287	0	3,394	2,533	0	0	0	696	3,229	165
2016	2,429	146	1,553	0	4,128	2,368	0	0	0	652	3,021	1,107
2017	3,369	165	1,260	0	4,795	2,473	0	0	0	681	3,153	1,641
2018	3,285	182	2,186	0	5,654	2,350	0	0	0	650	3,000	2,654
2019	3,588	199	2,436	0	6,223	2,356	0	0	0	653	3,009	3,214
2020	3,574	198	2,467	0	6,238	0	0	0	0	0	0	6,238
2021	3,327	183	2,325	0	5,836	0	0	0	0	0	0	5,836
2022	3,789	171	1,184	0	5,143	0	0	0	0	0	0	5,143
2023	3,738	157	1,816	0	5,711	0	0	0	0	0	0	5,711
2024	2,899	143	1,719	0	4,761	0	0	0	0	0	0	4,761
2025	2,703	131	1,598	0	4,432	0	0	0	0	0	0	4,432
2026	2,861	114	913	0	3,887	0	0	0	0	0	0	3,887
2027	2.142	96	1,393	0	3,631	0	0	0	0	0	0	3,631
2028	1,796	79	1,166	0	3,040	0	0	0	0	0	0	3,040
2029	1.637	62	551	0	2,250	0	0	0	0	0	0	2,250
2030	1,556	56	837	0	2,449	0	0	0	0	0	0	2,449
2031	1,299	46	720	0	2,065	0	0	0	0	0	0	2,065
2032	1,107	39	635	0	1,781	0	0	0	0	0	0	1,781
2033	883	31	521	0	1,434	0	0	0	0	0	0	1,434
2034	635	22	390	0	1,047	0	0	0	0	0	0	1,047
2035	507	18	319	0	844	0	0	0	0	0	0	844
2036	394	13	251	0	658	0	0	0	0	0	0	658
2037	267	9	174	0	450	0	0	0	0	0	0	450
2039	149	5	98	0	252	0	0	0	0	0	0	252
OMINAL	54,185	2,648	29,339	0	86,173	22,945	0	0	0	6,166	29,111	57,062
PV	18,783	977	9,974	0	29,734	13,362	0	0	0	3,568	16,930	12,804

TRC

Progress Energy Florida, Inc.

8.48

Utility Discount Rate:

Benefit Cost Ratio: 1.756

PROGRAM: Commercial/industrial New Construction

D. BUSINESS ENERGY SAVER PROGRAM

Program Start Date:

Proposed to start in 2011

Program Description

The Business Energy Saver program is designed to encourage and educate business customers

located in low-income areas by demonstration and installation of sustainable energy conservation

measures to help control and reduce energy consumption within their business. The business

must be located within the surrounding area of the Progress Energy qualifying Census Block

Group that meets the definition of a low-income neighborhood. Trained professional surveyors

and installers representing Progress Energy will offer businesses an energy assessment followed

by the installation of specified electric energy conservation measures. While in the business, the

owner will be provided energy saving tips for improving and sustaining energy efficiency. The

energy conservation measures installed and energy efficiency education provided will be at no

cost to the participants.

The Business Energy Saver program seeks to achieve the following goals:

• Conduct an energy assessment to identify energy efficiency opportunities in the business

• Implement a comprehensive package of electric energy conservation measures to increase

the business' energy efficiency and lower energy consumption

- Provide one-on-one customer education on energy efficiency techniques and the installation of energy conservation measures to create an immediate measurable and sustainable energy reduction in their business
- Promote behavioral changes that will help businesses in targeted areas to more effectively control their energy consumption over time.

Policies and Procedures

The program eligibility requirements to qualify for participation are as follows:

- The business must be a Progress Energy metered customer within Progress Energy service territory
- Business must be in a selected Progress Energy qualifying Census Block Group which meets the definition of a low-income neighborhood and surrounding area
- National and Chain Accounts are not eligible for participation in the Business Energy Saver program
- All installations must be accessible for verification by a Progress Energy representative
- A State of Florida General Licensed Contractor selected and approved by Progress
 Energy must be used to implement the Business Energy Saver program measures
- The business energy consumption shall be within Progress Energy defined standards

- The business will have been in operation for at least one year within Progress Energy service territory
- The business must meet the licensing requirement as established by the local municipality and state regulatory agencies.

Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions such as baseline or code revisions, updated measurement and valuation analysis, or technological advances.

Progress Energy is proposing to include the following measures with this program:

Compact Fluorescent Bulbs

This measure will install in the business up to five (5) compact fluorescent bulbs to replace incandescent bulbs with comparable lumens output.

Refrigerator Coil Brush

This portion of the program will provide the customer with a coil brush and demonstration how to remove dust and debris from condenser coils to improve the refrigerator efficiency.

Refrigerator Thermometer

This measure will install one thermometer in the food or freezer compartment of the refrigerator to provide a reference temperature for efficient operation of the appliance.

Change Filter Calendar

This portion of the program will provide each business with a Progress Energy magnetic calendar to help remind them to clean or change the HVAC filter monthly.

Weatherization Measures

This portion of the program will install weather stripping, door sweeps, caulk, foam sealant, and clear patch tape where needed to reduce air infiltration around doors, windows, and where pipes enter the business.

Water Heater Insulation Wrap and Insulation for Water Pipes

This portion of the program will install a water heater wrap and pipe insulation as identified to improve the efficiency of the water heating system. Foam insulated water heaters will be excluded from this measure.

Water Conservation Faucet Aerators

This portion of the program will install a maximum of two (2) aerators per business. This measure will reduce energy consumption related to the water heater system.

Water Heater Temperature Check and Adjustment

This portion of the program will provide a temperature check of the water heater and inform the customer of the possibility for reducing temperatures within manufacturer's recommendation and code requirements.

HVAC Filters

This portion of the program will provide each customer with a one-year supply of filters (12) for the main HVAC system. One filter may be installed at time of evaluation if needed.

Indoor Wall Thermometer

This portion of the program will install one wall plate thermometer per business to encourage the business owner to be aware of thermostat setting.

HVAC Window Unit Winterization Kit

This measure will install a winterization HVAC kit on wall/window AC units if seasonably applicable. The business will receive or have installed a maximum of three (3) kits. The customer will be educated on the proper use and value of the winterization kit as a method of stopping air infiltration in the business.

HVAC Maintenance

This measure will provide basic maintenance on the condensing and air handling units to increase energy efficiency through proper operational maintenance of mechanical equipment.

Attic Insulation Upgrade

This portion of the program will upgrade the customer's ceiling insulation up to R-30 as building code will allow. This measure will improve the efficiency of the business' building envelope.

Window Film/Solar Screen

This portion of the program will install window film or solar screen on south, east, or west oriented windows to reduce solar heat gain within the building.

Program Participation

Annual participation estimates for the Business Energy Saver program are shown in the following table.

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	1,225	100	8.2%
2012	175,147	1,150	120	17.6%
2013	178,542	1,154	120	24.7%
2014	182,030	1,180	120	30.3%
2015	185,461	1,206	120	34.8%
2016	188,717	1,232	120	38.6%
2017	191,817	1,260	120	41.8%
2018	194,809	1,287	120	44.6%
2019	197,848	1,315	120	47.0%

^{1.} The total number of customers is the forecast of commercial/industrial (C/I) customers in Progress Energy's 2009 Ten Year Site Plan.

Eligible customers represent the estimate of non-fortune 500 businesses that are serving NES low-income areas, escalated 2% per year.

^{3.} Number of program participants represents the participants projected.

^{4.} Cumulative penetration is the ratio of cumulative participants to the remaining eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and annual projected participation. The total projected program savings where then computed as the sum of the individual measure savings, as shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Wh Reduction Reduction		Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	2,308	0.41	1.64	230,790	41	164
2012	2,308	0.41	1.64	276,948	50	197
2013	2,308	0.41	1.64	276,948	50	197
2014	2,308	0.41	1.64	276,948	50	197
2015	2,308	0.41	1.64	276,948	50	197
2016	2,308	0.41	1.64	276,948	50	197
2017	2,308	0.41	1.64	276,948	50	197
2018	2,308	0.41	1.64	276,948	50	197
2019	2,308	0.41	1.64	276,948	50	197

At the Generator

Year	Per Customer KWh Reduction	Wh Reduction Reduction		Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	2,434	0.44	1.73	243,414	44	173
2012	2,434	0.44	1.73	292,097	52	207
2013	2,434	0.44	1.73	292,097	52	207
2014	2,434	0.44	1.73	292,097	52	207
2015	2,434	0.44	1.73	292,097	52	207
2016	2,434	0.44	1.73	292,097	52	207
2017	2,434	0.44	1.73	292,097	52	207
2018	2,434	0.44	1.73	292,097	52	207
2019	2,434	0.44	1.73	292,097	52	207

The Business Energy Saver program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

	NPV Benefits	NPV Costs	NPV Net	
Cost-Effectiveness Test	\$(000)	\$(000)	Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$1,841	\$1,816	\$25	1.01
Participant	\$1,517	\$445	\$1,072	3.41
Total Resource Cost	\$1,841	\$745	\$1,096	2.47

		~	~														
			BENEFITS								*	COSTS					
	(1)	(2)	(3)	(4)	(5)	1	(6)	1	(7)		(8)	(9)	(10)	(11)	(12)	(1	13)
	TOTAL	AVOIDED	AVOIDED			1	OTA	L	CREAS	SEN	CREASE	UTILITY					
	FUEL & O&	Γ&D CAP	GEN. CAP	REVENU	TOTAL	FUE	L &	0&1	&D CA	PG	EN. CAP	ROGRAN	NCENTIV	REVENUE	TOTAL	N	ET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	IN	CRE	ASI	COSTS	3	COSTS	COSTS	AYMENT	LOSSES	COSTS	BENI	EFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	1	\$(000))	\$(000)		\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(0	000)
2010	0	0	0	0	0			0		0	0	0	0	0	0		(
2011	28	2	0	0	30			0		0	0	43	64	29	137		-107
2012	53	5	0	0	59			0		0	0	54	80	62	196		-138
2013	108	8	48	0	164			0		0	0	56	83	98	237		-73
2014	96	10	98	0	205			0		0	0	58	86	136	280		-75
2015	127	13	122	0	262			0		0	0	60	89	185	334		-72
2016	164	15	148	0	326			0		0	0	62	92	211	365		-39
2017	250	17	119	0	386			0		0	0	64	95	207	366		20
2018	242	19	209	0	470			0		0	0	66	98	221	385		85
2019	248	19	221	0	488			0		0	0	68	101	241	410		78
2020	219	17	194	0	430			0		0	0	0	0	219	219		21
2021	184	14	164	0	362			0		0	0	0	0	202	202		160
2022	197	12	75	0	284			0		0	0	0	0	173	173		11
2023	171	9	102	0	283			0		0	0	0	0	144	144		139
2024	106	7	81	0	194			0		0	0	0	0	112	112		82
2025	81	5	62	0	149			0		0	0	0	0	88	88		6
2026	72	3	28	0	103			0		0	0	0	0	62	62		4
2027	34	2	26	0	61			0		0	0	0	0	36	36		2
2028	28	1	23	0	52			0		0	0	0	0	30	30		2
2029	25	1	11	0	37			0		0	0	0	0	22	22		1.
2030	24	1	16	0	40			0		0	0	0	0	18	18		2
2031	19	1	14	0	33			0		0	0	0	0	13	13		2
2032	17	1	12	0	29			0		0	0	0	0	11	11		1
2033	13	1	10	0	23			0		0	0	0	0	9	9		1.
2034	9	0	8	C	17			0		0	0	0	0	7	7		
2035	5	0	5	0	11			0		0	0	0	0	5	5		
2036	3	0	3	0) 6			0		0	0	0	0	2	2		
2037	0	0	0	0	0			0		0	0	0	0	0	0		
2039	0	0	0	0	0			0		0	0	0	0	0	0		. 1
NOMINA	L 2520	184	1800	(4504	_		0		0	0	532	788	2545	3865		639
NPV	1,032	80	729	(1,841			0		0	0	300	445	1,072	1,816		2:
NPV	1,032	80	729	(1,841			0		0	0	300	445	1,072	1,816		

Utility Discount Rate:

Benefit Cost Ratio:

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RIM

PROGRAM: Business Energy Saver Program

8.48

PROGRAM:	Business E	nergy Saver l	Program	Participa	Participant								
		BENE	FITS			COSTS							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)					
	SAVINGS I	N	OTHER			ARTICIPANT	rs	NET BENEFT					
	PARTICIPAN	TINCENTIVE	RTICIPAN	TOTAL	PARTICIPAN		TOTAL	TO					
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	INCREASE		PARTICIPAN					
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)					
2010	0	0	0	0	0	0	0	0					
2011	29	64	0	94	64	0	64	29					
2012	62	80	0	143	80	0	80	62					
2013	98	83	0	181	83	0	83	98					
2014	136	86	0	222	86	0	86	136					
2015	185	89	0	274	89	0	89	185					
2016	211	92	0	303	92	0	92	211					
2017	207	95	0	302	95	0	95	207					
2018	221	98	0	319	98	0	98	221					
2019	241	101	0	342	101	0	101	241					
2020	219	0	0	219	0	0	0	219					
2021	202	0	0	202	0	0	0	202					
2022	173	0	0	173	. 0	0	0	173					
2023	144	0	0	144	0	0	0	144					
2024	112	0	0	112	0	0	0	112					
2025	88	0	0	88	0	0	0	88					
2026	62	0	0	62	0	0	0	62					
2027	36	0	0	36	0	0	0	36					
2028	30	0	0	30	0	0	0	30					
2029	22	0	0	22	0	0	0	22					
2030	18	0	0	18	0	0	0	18					
2031	13	0	0	13	0	0	0	13					
2032	11	0	0	11	0	0	0	11					
2033	9	0	0	9	0	0	0	9					
2034	7	0	0	7	0	0	0	7					
2035	5	0	0	5	0	0	0	5					
2036	2	0	0	2	0	0	0	2					
2037	0	0	0	0	0	0	0	0					
2039	0	0	0	0	0	0	0	0					
NOMINAL	2,545	788	0	3,333	788	0	788	2,545					
NPV	1,072	445	0	1,517	445	0	445	1,072					
				Utility Discount I	Rate: 8.48								
				D C.C. (D.	2 400								

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Benefit Cost Ratio:

PROGRAM:	M: Business Energy Saver Program TRC			TRC								
			BENEFITS					COS	TS			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL	A VOIDED	A VOIDED	OTHER			TOTAL	INCREASED	INCREASED	UTILITY		
	FUEL & O&M	T&D CAP.	GEN. CAP.	PARTICIPANT	TOTAL	PARTICIPANT'	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	28	2	0	0	30	64	0	0	0	43	108	-78
2012	53	5	0	0 2	59	80	0	0	0	54	134	-75
2013	108	8	48	0	164	83	0	0	0	56	139	25
2014	96	10	98	0	205	86	0	0	0	58	144	61
2015	127	13	122	0	262	89	0	0	0	60	149	113
2016	164	15	148	0	326	92	0	0	0	62	154	172
2017	250	17	119	0	386	95	0	0	0	64	159	227
2018	242	19	209	0	470	98	0	0	0	66	164	306
2019	248	19	221	0	488	101	0	0	0	68	169	319
2020	219	17	194	0	430	0	0	0	0	0	0	430
2021	184	14	164	0	362	0	0	0	0	0	0	362
2022	197	12	75	0	284	0	0	0	0	0	0	284
2023	171	9	102	0	283	0	0	0	0	0	0	283
2024	106	7	81	0	194	0	0	0	0	0	0	194
2025	81	5	62	0	149	0	0	0	0	0	0	149
2026	72	3	28	0	103	0	0	0	0	0	0	103
2027	34	2	26	0	61	0	0	0	0	0	0	61
2028	28	1	23	0	52	0	0	0	0	0	0	52
2029	25	1	11	0	37	0	0	0	0	0	0	37
2030	24	1	16	0	40	0	0	0	0	0	0	40
2031	19	1	14	0	33	0	0	0	0	0	0	33
2032	17	1	12	0	29	0	0	0	0	0	0	29
2033	13	1	10	0	23	0	0	0	0	0	0	23
2034	9	0	8	0	17	0	0	0	0	0	0	17
2035	5	0	5	0	11	0	0	0	0	0	0	11
2036	3	0	3	0	6	0	0	0	0	0	0	6
2037	0	0	0	0	0	0	0	0	0	0	0	0
2039	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	2,520	184	1,800	0	4,504	788	0	0	0	532	1,320	3,184
NPV	1,032	80	729	0	1,841	445	0	0	0	300	745	1,096

Utility Discount Rate: 8.48
Benefit Cost Ratio: 2.472

E. COMMERCIAL GREEN BUILDING NEW CONSTRUCTION

Program Start Date:

Proposed to start in 2011

Program Description

The Commercial Green Building New Construction program is designed for commercial,

industrial, and governmental customers who are building new facilities to achieve optimal

energy efficiency. The Commercial Green Building New Construction program is designed to

encourage the energy efficient construction of new commercial facilities according to guidelines

set forth by LEED-NC. The LEED-NC rating system for commercial buildings focuses on

improving energy efficiency, reducing carbon emissions, and addressing other environmental

and human-health outcomes.

The program seeks to achieve the following goals:

• Promote use and increased quantity of Progress Energy approved energy efficient

measures during certification process

Motivate new construction builders to obtain LEED-NC certification

• Demonstrate green building design costs are offset by sustainable energy reductions

through installation of energy efficient measures.

Policies and Procedures

The general eligibility requirements are as follows:

- Qualification is limited to LEED-NC certified buildings only
- Incentive based on LEED-NC registration and certification fees
- Building must have installed a minimum number of Progress Energy Commercial New Construction program measures as outlined in the Program Participation Standards
- Commercial Green Building New Construction program incentive will be paid in addition to Commercial New Construction program incentives
- This program will offer a capped incentive in the amount of 50% of the registration and certification fees for obtaining a LEED-NC certificate for a New Construction building.

Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions, such as baseline or code revisions, updated measurement and valuation analysis, technological advances, or changes to the structure in the LEED-NC registration and certification fees.

Program Participation

Annual participation estimates for the Commercial Green Building New Construction program are shown in the following table:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%)
2011	170,886	3,653	140	3.8%
2012	175,147	4,261	224	8.3%
2013	178,542	3,395	280	17.1%
2014	182,030	3,488	318	23.3%
2015	185,461	3,431	322	29.2%
2016	188,717	3,256	291	34.7%
2017	191,817	3,100	308	40.3%
2018	194,809	2,992	294	44.7%
2019	197,848	3,039	329	48.0%

The total number of customers is the forecast of Commercial/Industrial customers in Progress Energy's 2009 Ten Year Site Plan.

All commercial, industrial and governmental rate class customers who build new facilities in a given year are eligible to participate.

<sup>Number of program participants represents the participants projected.
Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.</sup>

Savings Estimates

The total program savings were developed by analyzing new construction facilities compared to LEED-NC certified buildings. The total program savings are shown in the following table:

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	3,464	0.92	1.50	484,890	129	211
2012	3,464	0.92	1.50	775,824	206	337
2013	3,464	0.92	1.50	969,780	258	421
2014	3,464	0.92	1.50	1,101,393	293	479
2015	3,464	0.92	1.50	1,115,247	296	485
2016	3,464	0.92	1.50	1,007,879	268	438
2017	3,464	0.92	1.50	1,066,758	283	463
2018	3,464	0.92	1.50	1,018,269	270	442
2019	3,464	0.92	1.50	1,139,492	303	495

At the Generator

Year	Per Customer KWh Reduction	Vh Reduction Reduction		Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	3,653	0.97	1.59	511,413	136	222
2012	3,653	0.97	1.59	818,262	217	356
2013	3,653	0.97	1.59	1,022,827	272	444
2014	3,653	0.97	1.59	1,161,639	309	505
2015	3,653	0.97	1.59	1,176,251	312	511
2016	3,653	0.97	1.59	1,063,009	282	462
2017	3,653	0.97	1.59	1,125,110	299	489
2018	3,653	0.97	1.59	1,073,968	285	467
2019	3,653	0.97	1.59	1,201,822	319	522

Impact Evaluation Plan

The Commercial Green Building New Construction program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$9,142	\$10,590	-\$1,449	0.86
Participant	\$9,357	\$3,649	\$5,708	2.56
Total Resource Cost	\$9,142	\$4,882	\$4,260	1.87

RO GIVE	Of cell Duridin	5	TCHT													
			BENEFITS								COSTS		~		, "	
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)		(6) TOTAL	(7) INCREA SED	INC	(8) CREA SED	(9) UTILITY		(10)	(11)	(12)	(13)
	FUEL & O&M	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	I	FUEL & O&N	T&D CAP.	G	EN. CAP.	PROGRAM	IN	CENTIVE	REVENUE	TOTAL	NET
YEAR	SAVINGS	COSTS	COSTS	GAINS	BENEFITS		INCREASE	COSTS		COSTS	COSTS	PA	YMENTS	LOSSES	COSTS	BENEFIT
2010	0	0	0	0	0		0	0	7	0	0		0	0	0	0
2011	56	3	0	0	59		0	0		0	110		325	61	496	-437
2012	130	8	0	0	138		0	0		0	181		520	153	855	-717
2013	289	14	93	0	396		0	0		0	233		650	287	1,169	-773
2014	316	21	219	0	556		0	0		0	273		738	446	1,457	-901
2015	457	28	297	0	782		0	0		0	284		747	653	1,684	-901
2016	601	35	380	0	1,015		0	0		0	264		675	788	1,726	-711
2017	885	42	325	0	1,252		0	0		0	287		715	816	1,818	-566
2018	904	48	592	0	1,544		0	0		0	282		682	902	1,866	-321
2019	1,047	55	696	0	1,798		0	0		0	324		763	1,088	2,175	-377
2020	1,055	55	710	0	1,821		0	0		0	0		0	1,118	1,118	703
2021	1,059	55	725	0	1,840		0	0		0	0		0	1,211	1,211	629
2022	1,288	55	396	0	1,739		0	0		0	0		0	1,220	1,220	519
2023	1,376	55	662	0	2,093		0	0		0	0		0	1,251	1,251	843
2024	1,169	55	691	0	1,915		0	0		0	0		0	1,278	1,278	636
2025	1,185	55	703	0	1,943		0	0		0	0		0	1,311	1,311	633
2026	1,368	52	437	0	1,857		0	0		0	0		0	1,265	1,265	592
2027	1,093	47	716	0	1,855		0	0		0	0		0	1,172	1,172	683
2028	978	41	637	0	1,656		0	0		0	0		0	1,042	1,042	613
2029	957	34	321	0	1,311		0	0		0	0		0	888	888	424
2030	801	27	425	0	1,252		0	0		0	0		0	719	719	533
2031	634	21	337	0	991		0	0		0	0		0	560	560	430
2032	436	14	234	0	684		0	0		0	0		0	382	382	302
2033	235	7	129	O	371		0	0		0	0		0	207	207	164
2034	0	0	0	0	0		0	0		0	0		0	0	0	0
2035	0	0	0	0	0		0	0		0	0		0	0	0	0
2036	0	0	0	0	0		0	0		0	0		0	0	0	0
2037	0	0	0	0	0		0	0		0	0		0	0	0	0
2039	0	0	0	0	0		0	0		0	0		0	0	0	0
IOMINAL	18,314	829	9,725	0	28,868	5	0	0		0	2,238	0	5,814	18,818	26,870	1,999
IPV	5,783	279	3,080	0	9,142		0	0		0	1,233		3,247	6,110	10,590	-1,449

Utility Discount Rate:

Benefit Cost Ratio:

154

PROGRAM: Green Building

RIM

8.48

PROGRAM:	Green Bldg		Participant					
		BEN	EFITS			COSTS		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SA VINGS IN		OTHER			PARTICIPANT'S		NET BENEFITS
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	BILL	TOTAL	TO
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	PARTICIPANTS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0
2011	61	325	0	385	337	0	337	48
2012	153	520	0	673	551	0	551	123
2013	287	650	0	936	702	0	702	234
2014	446	738	0	1184	813	0	813	371
2015	653	747	0	1400	840	0	840	560
2016	788	675	0	1463	774	0	774	688
2017	816	715	0	1530	836	0	836	694
2018	902	682	0	1584	814	0	814	770
2019	1088	763	0	1851	929	0	929	922
2020	1118	0	0	1118	0	0	0	1118
2021	1211	0	0	1211	0	0	0	1211
2022	1220	0	0	1220	0	0	0	1220
2023	1251	0	0	1251	0	0	0	1251
2024	1278	0	0	1278	0	0	0	1278
2025	1311	0	0	1311	0	0	0	1311
2026	1265	0	0	1265	0	0	0	1265
2027	1172	0	0	1172	0	0	0	1172
2028	1042	0	0	1042	0	0	0	1042
2029	888	0	0	888	0	0	0	888
2030	719	0	0	719	0	0	0	719
2031	560	0	0	560	0	0	0	560
2032	382	0	0	382	0	0	0	382
2033	207	0	0	207	0	0	0	207
2034	0	0	0	0	0	0	0	0
2035	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0
2039	0	0	0	0	0	0	0	0
NOMINAL	18818	5814	0	24632	6596	0	6596	18036
NPV	6110	3247	0	9357	3649	0	3649	5708

Utility Discount Rate:

Benefit Cost Ratio:

155

8.48

PROGRAM: Green Building

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	a	BENEFITS						COSTS					
	(1)	(2)	(3)	(4)	(5)		(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL	A VOIDED	A VOIDED	OTHER				TOTAL	INCREASED	INCREASED	UTILITY		
	FUEL & O&M	T&D CAP.	GEN. CAP.	PARTICIPANT	TOTAL	PAR	ΓΙCΙΡΑΝΤ'S	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	TOTAL	NET
YEAR	SAVINGS	COSTS	COSTS	BENEFITS	BENEFITS		COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFITS
2010	0	0	0	0	0		0	0	0	0	0	0	0
2011	56	3	0	0	59		337	0	0	0	110	448	-389
2012	130	8	0	0	138		551	0	0	0	181	732	-594
2013	289	14	93	0	396		702	0	0	0	233	935	-539
2014	316	21	219	0	556		813	0	0	0	273	1086	-530
2015	457	28	297	0	782		840	0	0	0	284	1124	-341
2016	601	35	380	0	1015		774	0	0	0	264	1038	-23
2017	885	42	325	0	1252		836	0	0	0	287	1123	128
2018	904	48	592	0	1544		814	0	0	0	282	1096	449
2019	1047	55	696	0	1798		929	0	0	0	324	1253	545
2020	1055	55	710	0	1821		0	0	0	0	0	0	1821
2021	1059	55	725	0	1840		0	0	0	0	0	0	1840
2022	1288	55	396	0	1739		0	0	0	0	0	0	1739
2023	1376	55	662	0	2093		0	0	0	0	0	0	2093
2024	1169	55	691	0	1915		0	0	0	0	0	0	1915
2025	1185	55	703	0	1943		0	0	0	0	0	0	1943
2026	1368	52	437	0	1857		0	0	0	0	0	0	1857
2027	1093	47	716	0	1855		0	0	0	0	0	0	1855
2028	978	41	637	0	1656		0	0	0	0	0	0	1656
2029	957	34	321	0	1311		0	0	0	0	0	0	1311
2030	801	27	425	0	1252		0	0	0	0	0	0	1252
2031	634	21	337	0	991		0	0	0	0	0	0	991
2032	436	14	234	0	684		0	0	0	0	0	0	684
2033	235	7	129	0	371		0	0	0	0	0	0	371
2034	0	0	O	0	0		0	0	0	0	0	0	0
2035	0	0	0	0	0		0	0	0	0	0	0	0
2036	0	0	0	0	0		0	0	0	0	0	0	0
2037	0	0	0	0	0		0	0	0	0	0	0	0
2039	0	0	0	0	0		0	0	0	0	0	0	0
NOMINAL	18314	829	9725	0	28868	141	6596	0	0	0	2238	8834	20034
NPV	5,783	279	3,080	0	9,142		3,649	0	0	0	1,233	4,882	4,260

Utility Discount Rate:

8.48

Benefit Cost Ratio:

F. INNOVATION INCENTIVE PROGRAM

Program Start Date:

1992

Program modified in 1995

Modifications proposed in 2010

Program Description

The objective of the Innovation Incentive program is to encourage customers to make capital investments for the installation of energy efficiency measures which reduce peak KW and energy on the Progress Energy system. This program offers customized incentives specifically designed for individual innovative projects which are not otherwise addressed by Progress Energy Demand Side Management programs.

Representative examples of energy efficient technologies that would be considered under this program include, but are not limited to, refrigeration equipment replacement and new lighting technologies.

Policies and Procedures

The timeline of the Innovation Incentive program can range from six months to one year depending on the project. The steps included are application, monitoring, data collection, analysis of data, inspection, and processing incentive to the customer.

Program eligibility requirements to qualify for participation are as follows:

- Participant must be located in the Progress Energy service territory and be a commercially metered customer
- Participant must be willing to allow Progress Energy to inspect the installations of all measures and equipment.

Specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards.

Progress Energy will perform a customer-specific cost-effectiveness analysis for each project being considered under the Innovation Incentive program, using the Commission-approved cost-effectiveness tests described in Rule 25-17.008, Florida Administrative Code. The customer's incentive shall be based on the energy saved and/or demand reduction achieved, but shall not exceed 50% of the project cost or reduce the payback to less than two years. The maximum incentive for the project is \$500,000 per year. For complex engineering projects, Progress Energy reserves the right to stage the total incentive amount when necessary to confirm energy efficiency of the project.

After Progress Energy has reviewed and approved the project, an application will be executed between Progress Energy and the customer.

Program Participation

Annual participation estimates for the Innovation Incentive program are shown in the following table.

Year	Total Number of Customers	, , ,	Annual Number of Program Measure Participants ⁽³⁾ .	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	170,886	2	0.0%
2012	175,147	175,147	2	0.0%
2013	178,542	178,542	2	0.0%
2014	182,030	182,030	2	0.0%
2015	185,461	185,461	2	0.0%
2016	188,717	188,717	2	0.0%
2017	191,817	191,817	2	0.0%
2018	194,809	194,809	2	0.0%
2019	197,848	197,848	2	0.0%

The total number of customers is the forecast of Commercial/Industrial customers in Progress Energy's 2009 Ten Year Site Plan.

All commercial, industrial and governmental rate classes are eligible to participate.

The number of program participants represents the participants projected.
 Cumulative penetration is the ratio of cumulative measure participating customers to the eligible customer pool.

Savings Estimates

Program savings were not estimated during the planning stage and are not included in the Demand Side Management plan total. Any impacts obtained by this program will be calculated for each individual project and will be reported to the Commission to be counted toward achieving Progress Energy's conservation goals.

Impact Evaluation Plan

To verify the estimated savings for each project, an engineering/billing analysis based on customer-specific site and usage data will be performed. Monitoring will continue until Progress Energy has reasonable assurance that the project will remain in place and produce cost-effective energy savings for its estimated life. An incentive will not be issued to the customer until Progress Energy is reasonably sure of the projected savings.

Cost Effectiveness

Each individual project will be analyzed for cost-effectiveness at the time of project submittal to Progress Energy, using the Commission-approved tests of cost-effectiveness. Therefore, total program cost-effectiveness results are not shown.

G. STANDBY GENERATION PROGRAM

Program Start Date:

1993

Program modified in 1995, 2007

Modifications proposed in 2010

Program Description

The Standby Generation program is a demand control program that will reduce Progress Energy's demand based upon the control of customer equipment. The program is a voluntary program available to all commercial and industrial customers who have on-site generation capability and are willing to reduce their Progress Energy demand when deemed necessary. The program is offered through the General Service Load Management-2 (GSLM-2) rate schedule.

Progress Energy may have direct control of the customer equipment or will rely upon the customer to initiate the generation upon being notified by Progress Energy and continue running it until Progress Energy notifies the customer that the generation is no longer needed. Progress Energy does not restrict other use of the equipment by the customer.

Standby Generation program participants receive a monthly credit on their energy bill according to the demonstrated ability of the customer to reduce demand at Progress Energy's request. An additional credit will be based on the KWh the customer provides. The credits are based upon the load served by the customer's generator, which would have been served by Progress Energy if the Standby Generation program were not in operation. By compensating the customer for the

use of their on-site generation, Progress Energy can impact the commercial and industrial market while minimizing rate impacts. The incentive will be based on a per KW credit per month plus an additional compensation per KWh to support customer O&M associated with run time requested by the company.

Policies and Procedures

The general program eligibility requirements to qualify for participation are as follows:

- Customer must be eligible for service under the GS-1, GST-1, GSD-1 or GSDT-1 Rate Schedules
- Customer must have standby generation that will allow facility demand reduction at the request of Progress Energy
- Customer's Standby Generation Capacity calculation must be at least 50 KW
- Customer must be within the range of Progress Energy's load management system.

Program Participation

Annual participation estimates for the Standby Generation program are shown in the following table.

100		Total Number of	Annual Number	- 1
		Measure	of Program	Cumulative
	Total Number of	Eligible	Measure	Penetration
Year	Customers (1)	Customers (2)	Participants (3)	Level (%) ⁽⁴⁾
2011	170,886	547	10	1.8%
2012	175,147	560	10	3.6%
2013	178,542	571	10	5.3%
2014	182,030	582	10	6.9%
2015	185,461	593	10	8.4%
2016	188,717	604	10	9.9%
2017	191,817	614	10	11.4%
2018	194,809	623	10	12.8%
2019	197,848	633	10	14.2%

^{1.} Total Number of Customers is the forecast of Commercial/Industrial customers in the Progress Energy 2009 Ten Year Site Plan.

^{2.} Eligible Customers is based upon tariff GSLM-2 Rate Schedule.

^{3.} Annual number of program participants represents the projected number of customers.

^{4.} Cumulative penetration is the ratio of cumulative measure participants to the eligible customer pool.

Savings Estimates

The KW and KWh savings estimates for this program were determined from historical data and are presented below.

At the Meter

Year Agents	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	(0) -	400.00	400.00	(i) -,	4,000	4,000
2012		400.00	400.00		4,000	4,000
2013	-	400.00	400.00	22.11 J <u>.</u> . 1	4,000	4,000
2014	-	400.00	400.00	1 1 2 E	4,000	4,000
2015	-	400.00	400.00	Line at Tue	4,000	4,000
2016	-	400.00	400.00		4,000	4,000
2017	-	400.00	400.00		4,000	4,000
2018		400.00	400.00		4,000	4,000
2019	-	400.00	400.00	77.78	4,000	4,000

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	**************************************	425.08	425.08		4,251	4,251
2012	-	425.08	425.08	-	4,251	4,251
2013	-	425.08	425.08	-	4,251	4,251
2014	120	425.08	425.08	-	4,251	4,251
2015		425.08	425.08	-	4,251	4,251
2016	-	425.08	425.08	-	4,251	4,251
2017	-	425.08	425.08	-	4,251	4,251
2018	-	425.08	425.08		4,251	4,251
2019	-	425.08	425.08	-	4,251	4,251

Impact Evaluation Plan

Progress Energy uses on-site metering to measure the generation capability of each Standby Generation program participant to reduce load at the time they join the program. The customer and a Progress Energy representative will observe the metering tests to determine the load that the standby generator carries. This system testing will also determine the initial readings that will be recorded in order to determine the incentive that the customer will receive on their bill each month.

Cost Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio	
Rate Impact Measure	\$80,510	\$11,584	\$68,926	6.95	
Participant	\$10,235	\$0	\$10,235	9999	
Total Resource Cost	\$80,510	\$1,349	\$79,161	59.68	

PROGRAM: Standby Generation - RIM

			BENEFITS					COSTS			
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)	(6) TOTAL	(7) UTILITY	(8)	(9)	(10)	(11)
	FUEL & O&M SA VINGS	T&D CAP. COSTS	GEN. CAP. COSTS	REVENUE GAINS	TOTAL BENEFTIS	FUEL & O&M INCREASE	PROGRAM COSTS	INCENTIVE PAYMENTS	REVENUE LOSSES	TOTAL COSTS	NET BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	15	0	0	0	15	0	63	117	8	189	-174
2011	37	0	0	0	37	0	68	235	22	325	-288
2012	42	0	0	0	42	0	73	352	26	451	-409
2013	975	0	1,949	0	2,924	0	78	470	27	575	2,349
2014	0	0	3,839	0	3,839	87	83	587	36	793	3,047
2015	0	0	4,682	0	4,682	716	88	704	47	1,556	3,127
2016	140	0	5,203	0	5,343	0	93	822	90	1,005	4,338
2017	1,498	0	6,233	0	7,731	0	98	939	89	1,126	6,605
2018	2,040	0	8,261	0	10,301	0	103	1,057	95	1,255	9,046
2019	1,708	0	9,368	0	11,076	0	108	1,174	111	1,393	9,683
2020	1,557	0	9,565	0	11,122	0	50	1,174	114	1,338	9,784
2021	632	0	9,767	0	10,398	0	50	1,174	124	1,348	9,051
2022	3,629	0	5,337	0	8,965	0	50	1,174	125	1,349	7,617
2023	3,999	0	8,911	0	12,910	0	50	1,174	128	1,352	11,558
2024	1,139	0	9,305	0	10,444	0	50	1,174	131	1,355	9,090
2025	584	0	9,464	0	10,048	0	50	1,174	134	1,358	8,690
2026	3,639	0	6,234	0	9,872	0	50	1,174	137	1,361	8,512
2027	1,315	0	11,267	0	12,582	0	50	1,174	112	1,336	11,246
2028	1,169	0	11,535	0	12,704	0	50	1,174	143	1,367	11,337
2029	3,138	0	6,061	0	9,199	0	50	1,174	147	1,371	7,828
2030	3,434	0	10,141	0	13,574	0	50	1,174	151	1,375	12,199
2031	3,517	0	10,546	0	14,063	0	50	1,174	154	1,378	12,685
2032	3,532	0	10,968	0	14,500	0	50	1,174	157	1,381	13,119
2033	3,460	0	11,407	0	14,867	0	50	1,174	161	1,385	13,482
2034	3,634	0	11,863	0	15,497	0	50	1,174	164	1,388	14,109
2035	3,528	0	12,338	0	15,866	0	50	1,174	168	1,392	14,473
2036	3,469	0	12,831	0	16,300	0	50	1,174	172	1,396	14,904
2037	3,586	0	13,344	0	16,930	0	50	1,174	176	1,400	15,530
2038	3,681	0	13,878	0	17,559	0	50	1,174	179	1,403	16,156
IOMINAL	59,093	0	234,299	0	293,391	803	1,807	28,763	3,327	34,700	258,692
PV	14,764	0	65,746	0	80,510	539	810	9,282	953	11,584	68,926

Utility Discount Rate = 8.48

Benefit Cost Ratio = 6.950

PROGRAM: Standby Generation - Participant

		BENI	EFITS		COSTS		
	(1) SA VINGS IN	(2)	(3) OTHER	(4)	(5)	(6)	(7)
	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)
2010	8	117	0	126	0	0	126
2011	22	235	0	257	0	0	257
2012	26	352	0	378	0	0	378
2013	27	470	0	497	0	0	497
2014	36	587	0	623	0	0	623
2015	47	704	0	751	0	0	751
2016	90	822	0	911	0	0	911
2017	89	939	0	1,028	0	0	1,028
2018	95	1,057	0	1,152	0	0	1,152
2019	111	1,174	0	1,285	0	0	1,285
2020	114	1,174	0	1,288	0	0	1,288
2021	124	1,174	0	1,298	0	0	1,298
2022	125	1,174	0	1,299	0	0	1,299
2023	128	1,174	0	1,302	0	0	1,302
2024	131	1,174	0	1,305	0	0	1,305
2025	134	1,174	0	1,308	0	0	1,308
2026	137	1,174	0	1,311	0	0	1,311
2027	112	1,174	0	1,286	0	0	1,286
2028	143	1,174	0	1,317	0	0	1,317
2029	147	1,174	0	1,321	0	0	1,321
2030	151	1,174	0	1,325	0	0	1,325
2031	154	1,174	0	1,328	0	0	1,328
2032	157	1,174	0	1,331	0	0	1,331
2033	161	1,174	0	1,335	0	0	1,335
2034	164	1,174	0	1,338	0	0	1,338
2035	168	1,174	0	1,342	0	0	1,342
2036	172	1,174	0	1,346	0	0	1,346
2037	176	1,174	0	1,350	0	0	1,350
2038	179	1,174	0	1,353	0	0.	1,353
MINAL	3,327	28,763	0	32,090	0	0	32,090
PV .	953	9,282	0	10,235	0	0	10,235

Utility Discount Rate = 8.48

Benefit Cost Ratio = 9999

PROGRAM: Standby Generation - TRC

			BENEF	TTS				CC	OSTS		
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4) OTHER	(5)		(6) TOTAL	(7) UTILITY	(8)	(9)	(10)
	FUEL & O&M		GEN. CAP.	PARTICIPANT	TOTAL		FUEL & O&M	PROGRAM	PARTICIPANT'S	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	BENEFITS		INCREASE	COSTS	COST	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)		\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	15	0	0	0	15	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	63	0	63	-48
2011	37	0	0	0	37		0	68	0	68	-31
2012	42	0	0	0	42		0	73	0	73	-31
2013	975	0	1,949	0	2,924		0	78	0	78	2,846
2014	0	0	3,839	0	3,839		87-	83	0	170	3,669
2015	0	0	4,682	0	4,682		716	88	0	804	3,878
2016	140	0	5,203	0	5,343		0	93	0	93	5,250
2017	1,498	0	6,233	0	7,731		0	98	0	98	7,633
2018	2,040	0	8,261	0	10,301		0	103	0	103	10,198
2019	1,708	0	9,368	0	11,076		0	108	0	108	10,968
2020	1,557	0	9,565	0	11,122		0	50	0	50	11,072
2021	632	0	9,767	0	10,398		0	50	0	50	10,348
2022	3,629	0	5,337	11131 0	8,965		0	50	0	50	8,915
2023	3,999	0	8,911	0	12,910		0	50	0	50	12,860
2024	1,139	0	9,305	0	10,444		0	50	0	50	10,394
2025	584	0	9,464	0	10,048		0	50	0	50	9,998
2026	3,639	0	6,234	0	9,872		0	50	0	50	9,822
2027	1,315	0	11,267	0	12,582		0	50	0	50	12,532
2028	1,169	0	11,535	0	12,704		0	50	0	50	12,654
2029	3,138	0	6,061	0	9,199		0	50	0	50	9,149
2030	3,434	0	10,141	0	13,574		0	50	0	50	13,524
2031	3,517	0	10,546	0	14,063		0	50	0	50	14,013
2032	3,532	0	10,968	0	14,500		0	50	0	50	14,450
2033	3,460	0	11,407	0	14,867		0	50	0	50	14,817
2034	3,634	0	11,863	0	15,497		0	50	0	50	15,447
2035	3,528	0	12,338	0	15,866		0	50	0	50	15,816
2036	3,469	0	12,831	0	16,300		0	50	0	50	16,250
2037	3,586	0	13,344	0	16,930		0	50	0	50	16,880
2038	3,681	0	13,878	0	17,559		0	50	0	50	17,509
NOMINAL	59,093	0	234,299	0	293,391		803	1,807	0	2,609	290,782
NPV	14,764	0	65,746	0	80,510		539	810	0	1,349	79,161

Utility Discount Rate = 8.48

Benefit Cost Ratio = 59.683

H. INTERRUPTIBLE SERVICE PROGRAM

Program Start Date:

1996 for the IS-2 and IST-2 rate schedules.

Modifications proposed in 2010

Program Description

The Interruptible Service program is a direct load control program that reduces Progress Energy's demand at times of capacity shortage during peak or emergency conditions.

Policies and Procedures

The program is available throughout the entire territory served by Progress Energy to any non-residential customer who is willing to have their power interrupted. The program is currently offered through the Interruptible General Service (IS-2) and Interruptible General Service Time of Use (IST-2) rate schedules. The IS-1 and IST-1 rate schedules were closed to new customers in 1996, but remain active for those customers that were grand-fathered onto the rate.

Progress Energy will have remote control of the circuit breaker or disconnect switch supplying the customer's equipment. If purchased power is available at the time of potential interruption, customers who choose not to have their load interrupted will be assessed at the price of that purchased power supplied. Customers participating in the Interruptible Service program will receive a monthly interruptible demand credit based on their billing demand and billing load factor.

The general program eligibility requirements to qualify for participation are as follows:

- Customer must be eligible for service under the IS-2 or IST-2 Rate Schedules.
- Minimum billing demand must be 500 KW or more.
- Available at primary, transmission and secondary service voltages.

Program Participation

Annual participation estimates for the Interruptible Service program are shown in the following table.

Year	Total Number of Customers	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2011	170,886	459	1	0.2%
2012	175,147	470	1	0.4%
2013	178,542	479	1	0.6%
2014	182,030	489	1	0.8%
2015	185,461	498	1	1.0%
2016	188,717	507	1	1.2%
2017	191,817	515	1	1.4%
2018	194,809	523	1	1.5%
2019	197,848	531	1	1.7%

Total Number of Customers is the forecast of Commercial/Industrial customers in the Progress Energy 2009 Ten Year Site Plan.
 Eligible Customers is based upon tariff IS-2 Rate Schedule.
 Annual number of program participants represents the projected number of customers.
 Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Savings estimate for the Interruptible Service program are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	Sulfano i- to	326.00	311.00	L. Insulfaced Section	326	311
2012	All Marking on 18 of	326.00	311.00	And the state of t	326	311
2013	-	326.00	311.00		326	311
2014		326.00	311.00	The state of the s	326	311
2015		326.00	311.00		326	311
2016	- 14 m	326.00	311.00		326	311
2017	Contraction of the contraction o	326.00	311.00		326	311
2018		326.00	311.00		326	311
2019	- 11	326.00	311.00		326	311

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011		336.79	321.30		337	321
2012		336.79	321.30	kali pasting-21 from P iona i	337	321
2013	-	336.79	321.30	की स्वापन्यक्षण्य स्वयं स्वापना	337	321
2014	1,2	336.79	321.30		337	321
2015	-	336.79	321.30	-	337	321
2016	-	336.79	321.30		337	321
2017	-	336.79	321.30		337	321
2018	-	336.79	321.30		337	321
2019	12	336.79	321.30	¥:: .	337	321

Impact Evaluation Plan

Program impacts are evaluated through on-site interval metering data of all Interruptible Service customers.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$6,187	\$1,315	\$4,872	4.7
Participant	\$1,127	\$0	\$1,127	9999
Total Resource Cost	\$6,187	\$187	\$6,000	33.09

PROGRAM: Interruptible Service - RIM

			BENEFTIS					COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		(11)
	TOTAL	A VOIDED	A VOIDED			TOTAL	UTILITY					
	FUEL & O&M	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	PROGRAM	INCENTIVE	REVENUE	TOTAL		NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	PAYMENTS	LOSSES	COSTS		BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	40	\$(000)
2010	1	0	0	0	1	0	16	13	1	30		-29
2011	3	0	0	0	3	0	17	27	1	45		-42
2012	3	0	0	0	3	0	17	40	2	59		-56
2013	76	0	147	0	223	0	18	54	3	74		149
2014	0	0	290	0	290	4	18	67	3	93		197
2015	0	0	353	0	353	51	19	81	5	155		198
2016	12	0	412	0	424	0	19	94	5	119		305
2017	119	0	493	0	612	0	20	108	5	133		479
2018	155	0	623	0	779	0	20	121	5	147		632
2019	130	0	707	0	837	0	21	135	6	162		675
2020	120	0	722	0	841	0	5	135	7	146		695
2021	50	0	737	0	787	0	5	135	8	148		639
2022	274	0	403	0	677	0	5	135	7	147		530
2023	301	0	672	0	974	0	5	135	8	147		826
2024	88	0	702	0	790	0	5	135	8	148		643
2025	45	0	714	0	759	0	5	135	8	148		611
2026	273	0	470	0	743	0	5	135	8	148		595
2027	103	0	850	0	953	0	5	135	8	148		805
2028	91	0	871	0	962	0	5	135	9	148		813
2029	247	0	479	0	726	0	5	135	9	149		577
2030	270	0	802	0	1,071	0	5	135	10	150		922
2031	277	0	834	0	1,110	0	5	135	10	149		961
2032	280	0	867	0	1,147	0	5	135	10	150		998
2033	272	0	902	0	1,174	0	5	135	11	150		1,024
2034	286	0	938	0	1,224	0	5	135	10	150		1,074
2035	277	0	976	0	1,253	0	5	135	11	150		1,102
2036	273	0	1,015	0	1,287	0	5	135	11	151		1,136
2037	280	0	1,055	0	1,335	0	5	135	11	151		1,185
2038	289	0	1,098	0	1,386	0	5	135	11	151		1,235
NOMINAL	4,590	0	18,133	0	22,724	56	278	3,304	209	3,846		18,877
NPV	1,141	0	5,046	0	6,187	37	150	1,066	61	1,315		4,872

Utility Discount Rate = 8.48

Benefit Cost Ratio = 4.706

PROGRAM: Interruptible Service - Participant

	=	BENI	EFIIS	COSTS			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	SA VINGS 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)
2010	1	13	0	14	0	0	14
2011	1	27	0	28	0	0	28
2012	2	40	0	42	0	0	42
2013	3	54	0	57	0	0	57
2014	3	67	0	71	0	0	71
2015	5	81	0	86	0	0	86
2016	5	94	0	100	0	0	100
2017	5	108	0	113	0	0	113
2018	5	121	0	127	0	0	127
2019	6	135	0	141	0	O	141
2020	7	135	0	141	0	0	141
2021	8	135	0	143	0	0	143
2022	7	135	0	142	0	0	142
2023	8	135	0	142	0	0	142
2024	8	135	0	143	0	0	143
2025	8	135	0	143	0	0	143
2026	8	135	0	143	0	0	143
2027	8	135	0	143	0	0	143
2028	9	135	0	143	0	0	143
2029	9	135	0	144	0	0	144
2030	10	135	0	145	0	0	145
2031	10	135	0	144	0	0	144
2032	10	135	0	145	0	0	145
2033	11	135	0	145	0	0	145
2034	10	135	0	145	0	0	145
2035	11	135	0	145	0	0	145
2036	11	135	0	146	0	0	146
2037	11	135	0	146	0	0	146
2038	11	135	0	146	0	0	146
MINAL	209	3,304	0	3,513	0	0	3,513
V	61	1,066	0	1,127	0	0	1,127

Utility Discount Rate = 8.48

Benefit Cost Ratio = 9999

PROGRAM: Interruptible Service - TRC

	<u></u>		BENEFI	rs		COSTS						
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4) OTHER	(5)	 (6) TOTAL	(7) UTILITY	(8)	(9)	(10)		
	FUEL & O&M SAVINGS	T&D CAP. COSTS	GEN. CAP. COSTS	PARTICIPANT	TOTAL	FUEL & O&M	PROGRAM	PARTICIPANT'S	TOTAL	NET		
YEAR	\$(000)	\$(000)	\$(000)	BENEFITS	BENEFITS	INCREASE	COSTS	COST	COSTS	BENEFITS		
2010	3(000)	0	0	\$(000)	\$(000)	 \$(000)	\$(000)	\$(000)	\$(000)	\$(000)		
2010	3	0	0		1	0	16	0	16	-15		
2011	3	0	0	0	3	0	17	0	17	-14		
2012	76		147			0	17	0	17	-14		
2013	0	0		0	223	0	18	0	18	205		
2014	0	0	290	0	290	4	18	0	22	267		
2015	12	0	353	0	353	51	19	0	70	284		
2016	119	0	412	0	424	0	19	0	19	405		
		0	493	0	612	0	20	0	20	592		
2018	155	0	623	0	779	0	20	0	20	759		
2019	130	0	707	0	837	0	21	0	21	816		
2020	120	0	722	0	841	0	5	0	5	836		
2021	50	0	737	0	787	0	5	0	5	782		
2022	274	0	403	0	677	0	5	0	5	672		
2023	301	0	672	0	974	0	5	0	5	969		
2024	88	0	702	0	790	0	5	0	5	785		
2025	45	0	714	0	759	0	5	0	5	754		
2026	273	0	470	0	743	0	5	0	5	738		
2027	103	0	850	0	953	0	5	0	5	948		
2028	91	0	871	0	962	0	5	0	5	957		
2029	247	0	479	0	726	0	5	0	5	721		
2030	270	0	802	0	1,071	0	5	0	5	1,066		
2031	277	0	834	0	1,110	0	5	0	5	1,105		
2032	280	0	867	0	1,147	0	5	0	5	1,142		
2033	272	0	902	0	1,174	0	5	0	5	1,169		
2034	286	0	938	0	1,224	0	5	0	5	1,219		
2035	277	0	976	0	1,253	0	5	0	5	1,248		
2036	273	0	1,015	0	1,287	0	5	0	5	1,282		
2037	280	0	1,055	0	1,335	0	5	0	5	1,330		
2038	289	0	1,098	0	1,386	0	5	0	5	1,381		
OMINAL	4,590	0	18,133	0	22,724	56	278	0	333	22,391		
PV	1,141	0	5,046	0	6,187	37	150	0	187	6,000		

Utility Discount Rate = 8.48
Benefit Cost Ratio = 33.061

I. CURTAILABLE SERVICE PROGRAM

Program Start Date:

1996 for the CS-2 and CST-2 rate schedules

2004 for the CS-3 and CST-3 rate schedules.

Modifications proposed in 2010

Program Description

The Curtailable Service program is an indirect load control program that will reduce Progress Energy's demand at times of capacity shortage during peak or emergency conditions.

Policies and Procedures

The program is available throughout the entire territory served by Progress Energy to any non-residential customer who agrees to curtail 25% of their average monthly billing demand for CS-2 and CST-2 and a minimum of 2000 KW for CS-3 and CST-3. The program is currently offered through the Curtailable General Service (CS-2) and Curtailable General Service Time of Use (CST-2) rate schedules. The CS-1 and CST-1 rate schedules were closed to new customers in 1996, but remain active for those customers that were grand-fathered onto the rate.

Progress Energy will notify customers when off-system power purchases may begin in support of their service. If purchased power is available at the time of notification, customers who choose not to reduce their load will be assessed charges as set forth in the applicable tariff. Additionally, Progress Energy will provide notification of curtailment request. Upon curtailment request, customers choosing not to comply with their curtailment responsibility will be assessed

penalties as described in the applicable tariff. Customers participating in the Curtailable Service program receive a monthly curtailable demand credit based on their curtailable demand and billing load factor. The general program eligibility requirements to qualify for participation are as follows:

- Customer must be eligible for service under the CS-2 or CST-2 Rate Schedules.
- Minimum billing demand must be 500 KW or more for CS-2 and CST-2.
- Available at primary, transmission and secondary service voltages.

Program Participation

Annual participation estimates for the Curtailable Service program are shown in the following table.

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	906	1	0.1%
2012	175,147	928	1	0.2%
2013	178,542	946	1	0.3%
2014	182,030	965	1	0.4%
2015	185,461	983	1	0.5%
2016	188,717	1,000	1	0.6%
2017	191,817	1,017	1	0.7%
2018	194,809	1,032	1	0.8%
2019	197,848	1,049	1	0.9%

Total Number of Customers is the forecast of Commercial/Industrial customers in the Progress Energy 2009 Ten Year Site Plan. Eligible Customers is based upon tariff CS-2 and CS-3 Rate Schedule.

^{2.}

Annual number of program participants represents the projected number of customers.
 Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Savings estimate for the Curtailable Service program are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	0	282.00	189.00	- Line of Co.	282	189
2012	-	282.00	189.00	-	282	189
2013	Have in the	282.00	189.00	" BERTALD	282	189
2014		282.00	189.00	A35% 05 -	282	189
2015		282.00	189.00		282	189
2016		282.00	189.00	a transmission appears as a second	282	189
2017		282.00	189.00		282	189
2018	1	282.00	189.00	(天) (長) [1]	282	189
2019	-	282.00	189.00	Tall of the	282	189

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	-	299.68	200.85	2 - restrict atmost	300	201
2012	-	299.68	200.85	a saali ma to A	300	201
2013	-	299.68	200.85	-	300	201
2014	-	299.68	200.85	12.	300	201
2015	-	299.68	200.85	-	300	201
2016	- 1	299.68	200.85	-	300	201
2017	-	299.68	200.85	-	300	201
2018		299.68	200.85	-	300	201
2019	-	299.68	200.85	-	300	201

Impact Evaluation Plan

Program impacts are evaluated through on-site interval metering data of all Curtailable Service customers.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$4,508	\$720	\$3,788	6.26
Participant	\$663	\$0	\$663	9999
Total Resource Cost	\$4,508	\$57	\$4,450	78.8

PROGRAM: Curtailable Service - RIM

			BENEFITS			 1		COSTS				
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)	(6) TOTAL	(7) UTILITY	(8)	(9)	(10)		(11)
	FUEL & O&M		GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	PROGRAM	INCENTIVE	REVENUE	TOTAL		NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	PA YMENTS	LOSSES	COSTS		BENEFIC
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)		\$(000)
2010	1	0	0	0	1	0	0	8	1	8		-8
2011	3	0	0	0	3	0	1	15	Ĩ.	17		-15
2012	3	0	0	0	3	0	1	23	2	26		-23
2013	48	0	92	0	140	0	2	31	2	35		106
2014	0	0	182	0	182	2	2	39	3	45		137
2015	0	0	222	0	222	30	3	46	4	83		139
2016	10	0	367	0	377	0	3	54	5	62		315
2017	106	0	440	0	546	0	4	62	5	70		476
2018	99	0	391	0	491	0	4	70	5	78		412
2019	83	0	444	0	527	0	5	77	6	87		439
2020	77	0	453	0	530	0	5	77	6	88		441
2021	35	0	463	0	497	0	5	77	6	89		409
2022	174	0	253	0	427	0	5	77	6	89		338
2023	192	0	422	0	614	0	5	77	7	89		525
2024	58	0	441	0	499	0	5	77	7	89		410
2025	31	0	448	0	479	0	5	77	7	89		390
2026	174	0	295	0	469	0	5	77	7	89		380
2027	66	0	534	0	600	0	5	77	7	89		510
2028	59	0	547	0	606	0	5	77	7	90		516
2029	220	0	428	0	647	0	5	77	8	90		557
2030	242	0	715	0	956	0	5	77	8	90		866
2031	247	0	744	0	990	0	5	77	8	90		900
2032	249	0	773	0	1,022	0	5	77	8	90		931
2033	243	0	804	0	1,047	0	5	77	8	91		957
2034	255	0	836	0	1,091	0	5	77	8	91		1,001
2035	247	0	870	0	1,117	0	5	77	9	91		1,026
2036	242	0	905	0	1,147	0	5	77	9	91		1,055
2037	250	0	941	0	1,191	0	5	77	9	91		1,099
2038	258	0	978	0	1,236	0	5	77	9	91		1,145
NOMINAL	3,668	0	13,987	0	17,654	32	118	1,892	177	2,218	-	15,436
NPV	855	0	3,652	0	4,508	21	36	611	52	720		3,787

Utility Discount Rate = 8.48

Benefit Cost Ratio = 6.259

PROGRAM: Curtailable Service - Participant

		BENI	EFITS		COST	S	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	SA VINGS 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)
2010	1	8	0	8	0	0	8
2011	1	15	0	17	0	0	17
2012	2	23	0	25	0	0	25
2013	2	31	0	33	0	0	33
2014	3	39	0	41	0	0	41
2015	4	46	0	50	0	0	50
2016	5	54	0	59	0	0	59
2017	5	62	0	66	0	0	66
2018	5	70	0	74	0	0	74
2019	6	77	0	83	0	0	83
2020	6	77	0	83	0	0	83
2021	6	77	0	84	0	0	84
2022	6	77	0	84	0	0	84
2023	7	77	0	84	0	0	84
2024	7	77	0	84	0	0	84
2025	7	77	0	84	0	0	84
2026	7	77	0	84	0	0	84
2027	7	77	0	84	0	0	84
2028	7	77	0	85	0	0	85
2029	8	77	0	85	0	0	85
2030	8	77	0	85	0	0	85
2031	8	77	0	85	0	. 0	85
2032	8	77	0	85	0	0	85
2033	8	77	0	86	0	0	86
2034	8	77	0	86	0	0	86
2035	9	77	0	86	0	0	86
2036	9	77	0	86	0	0	86
2037	9	77	0	86	0	0	86
2038	9	77	0	86	0	0	86
NOMINAL	177	1,892	0	2,069	0	0	2,069
NPV	52	611	0	663	0	0	663

Utility Discount Rate = 8.48

Benefit Cost Ratio = 9999

PROGRAM: Curtailable Service - TRC

			BENEFI	rs				CC	OSTS		
	(1)	(2)	(3)	(4)	(5)		(6)	(7)	(8)	(9)	(10)
	TOTAL	A VOIDED	A VOIDED	OTHER			TOTAL	UTILITY			
	FUEL & O&M	T&D CAP.	GEN. CAP.	PARTICIPANT	TOTAL		FUEL & O&M	PROGRAM	PARTICIPANT'S	TOTAL	NET
	SA VINGS	COSTS	COSTS	BENEFITS	BENEFITS		INCREASE	COSTS	COST	COSTS	BENEFIT
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	_ %	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	1	0	0	0	1		0	0	0	0	1
2011	3	0	0	0	3		0	1	0	1	2
2012	3	0	0	0	3		0	1	0	1	2
2013	48	0	92	0	140		0	2	0	2	139
2014	0	0	182	0	182		2	2	0	4	178
2015	0	0	222	0	222		30	3	0	33	189
2016	10	0	367	0	377		0	3	0	3	374
2017	106	0	440	0	546		0	4	0	4	542
2018	99	0	391	0	491		0	4	0	4	487
2019	83	0	444	0	527		0	5	0	5	522
2020	77	0	453	0	530		0	5	0	5	525
2021	35	0	463	0	497		0	5	0	5	492
2022	174	0	253	0	427		0	5	0	5	422
2023	192	0	422	0	614		0	5	0	5	609
2024	58	0	441	0	499		0	5	0	5	494
2025	31	0	448	0	479		0	5	0	5	474
2026	174	0	295	0	469		0	5	0	5	464
2027	66	0	534	0	600		0	5	0	5	595
2028	59	0	547	0	606		0	5	0	5	601
2029	220	0	428	0	647		0	5	0	5	642
2030	242	0	715	0	956		0	5	0	5	951
2031	247	0	744	0	990		0	5	0	5	985
2032	249	0	773	0	1,022		0	5	0	5	1,017
2033	243	0	804	0	1,047		0	5	0	5	1,042
2034	255	0	836	0	1,091		0	5	0	5	1,086
2035	247	0	870	0	1,117		0	5	0	5	1,112
2036	242	0	905	0	1,147		0	5	0	5	1,142
2037	250	0	941	0	1,191		0	5	0	5	1,186
2038	258	0	978	0	1,236		0	5	0	5	1,231
OMINAL	3,668	0	13,987	0	17,654	_	32	118	0	149	17,505
PV	855	0	3,652	0	4,508		21	36	0	57	4,450
1 61	17-7-7-7-1 17-7-7-7-1			7.1	190.00				023	15.01	.,

Utility Discount Rate = 8.48

Benefit Cost Ratio = 78.800

J. BUSINESS ENERGY RESPONSE PROGRAM

Program Start Date:

Proposed to start in 2011

Program Description

This program will provide participating non-residential customers with prompt time-of-use

energy information, enabling the customer to utilize current energy usage data to identify

opportunities to reduce electric consumption during high peak/rate periods. Additionally, these

customers will have the opportunity to take advantage of the critical peak rebate incentive that

will be offered upon approval of this demand response program and associated tariff sheet

(GSDR). This critical peak rebate will be provided to the qualifying non-residential customers

during critical peak times to encourage the customer to reduce load during these peak events by

allowing direct load control of their air-conditioning systems and/or interfacing with their energy

management systems.

There will be a phased infrastructure enhancement plan and implementation that will enable

advanced remote metering, direct load control & energy management system demand response

interfaces, provide customers with more frequent interval meter data including the addition of a

two-way communications network, and a Meter Data Management System with a customer-

accessible energy usage and reporting web portal.

Goals of the program are:

- Provide non-residential customers alternative methods/technologies to reduce their electricity cost and contribute to Progress Energy's overall energy and demand reduction goals
- Reduce on-peak demand and energy usage
- Provide low-cost added-value data services (i.e. detailed energy usage reports) in lieu of monthly incentives to lower overall program cost
- Incent participants for only energy/demand benefits actually provided and measured
- Implement the necessary metering & communications technology to support this program and create the opportunity for other energy efficiency programs to be added in the future.

 This infrastructure will allow Progress Energy to match the American Recovery and Reinvestment Act stimulus grant funds awarded by the Department of Energy.
- Total participation goal is approximately 85,000 AMI web portal (access) non-residential customers by 2019 with many participants upgrading to other energy efficiency programs by the end of 2019 resulting in additional demand and energy reductions

Policies and Procedures

Incentives will be based on measured demand reduction compared to a benchmark average demand established over a period just prior to the critical peak event day.

The program eligibility requirements to qualify for participation are as follows:

General Requirements:

- Meet program specific requirements to ensure needed technology is compatible and expected load reduction is feasible as will be indicated in the GSDR tariff sheet
- The building/facility must be a Progress Energy non-residential tariff type with a time of use or demand rate or have an existing time of use or demand meter
- The building/facility must have an approved Progress Energy "smart meter" that is connected to the Progress Energy Advanced Metering Infrastructure/Demand Response network with two-way communications active (provided by Progress Energy)
- The metering and DR equipment/installation must be considered cost effective by Progress Energy
- The non-residential participant must agree to participate for a minimum number of control events if demand response equipment is installed
- Exceptions to the non-residential tariff type requirement may be made in the event the
 commercial customer is out of our AMI range, resulting in the need to install
 meters/gateways to complete the two-way communications network to the customer or if
 interval data is needed on that residential customer for research purposes.

- Participant must allow Progress Energy and/or its contractor access to all equipment on this program when required by Progress Energy
- Incentive Levels and specific eligibility requirements for each feature promoted in this program will be presented in the Program Participation Standards.

Program Participation

Annual participation estimates for the Business Energy Response program are shown in the following table.

Year	Total Number of Customers (1)	Measure	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	170,886	7	0.0%
2012	175,147	175,147	904	0.5%
2013	178,542	178,542	6,905	4.4%
2014	182,030	182,030	9,904	9.7%
2015	185,461	185,461	15,904	18.1%
2016	188,717	188,717	15,905	26.2%
2017	191,817	191,817	15,904	34.1%
2018	194,809	194,809	15,904	41.8%
2019	197,848	197,848	10,814	46.6%

Total Number of Customers is the forecast of commercial/industrial (C/I) customers in the Progress Energy 2009 Ten Year Site Plan. All commercial, industrial and governmental rate classes are eligible to participate. Note: There are three levels of participation and customers may participant in more than one.

Number of program participants represents the participants projected.

Cumulative penetration is the ratio of projected measure participating customers to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and, annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011		0.00	118.16			827
2012		0.00	7.13			6,445
2013	1,716	0.47	1.40	10,398,501	3,212	9,662
2014	1,716	0.49	1.14	15,597,752	4,817	11,263
2015	1,716	0.50	0.91	25,996,253	8,029	14,474
2016	1,716	0.50	0.91	25,996,253	8,029	14,479
2017	1,716	0.50	0.91	25,996,253	8,029	14,474
2018	1,716	0.50	0.91	25,996,253	8,029	14,474
2019	1,716	0.49	1.05	17,330,835	5,353	11,379

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Winter KW Summer KW Tota		Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011		0.00	124.63	-	1-	872
2012	-	0.00	7.52	-	1	6,798
2013	1,810	0.49	1.48	10,967,299	3,387	10,190
2014	1,810	0.51	1.20	16,450,949	5,081	11,879
2015	1,810	0.53	0.96	27,418,248	8,468	15,266
2016	1,810	0.53	0.96	27,418,248	8,468	15,271
2017	1,810	0.53	0.96	27,418,248	8,468	15,266
2018	1,810	0.53	0.96	27,418,248	8,468	15,266
2019	1,810	0.52	1.11	18,278,832	5,646	12,002

2011 and 2012 contain demand values for summer participants only.

The measure that affects energy is available in years 2013 thru 2019.

Impact Evaluation Plan

Baseline energy and demand usage will be collected from participants to create a statistically valid baseline for winter and summer peak impact evaluation. This baseline will be compared to participants' energy and demand actual data to determine program impacts. In addition, the program requires actual demand comparison before incentives are paid out.

Cost-Effectiveness

The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$338,403	\$297,608	\$40,795	1.14
Participant	\$166,203	\$0	\$166,203	9999
Total Resource Cost	\$338,403	\$131,405	\$206,998	2.58

PROGRAM: Business Energy Response - RIM

			BENEFITS						COSTS			- 1	87 27 87
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	TOTAL	AVOIDED	AVOIDED			TOTAL	INCREASED	INCREASED	UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFIT
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	5	0	0	0	5	0	0	0	10,940	50	3	10,993	-10,988
2011	7	0	0	0	7	0	0	0	13,780	66	5	13,851	-13,844
2012	9,439	585	0	0	10,024	0	0	0	20,734	194	9,339	30,267	-20,243
2013	20,588	995	6,833	0	28,416	0	0	0	24,301	322	16,765	41,388	-12,971
2014	14,705	995	14,287	0	29,987	76	0	0	21,551	450	17,498	39,575	-9,587
2015	15,799	995	17,343	0	34,137	755	0	0	21,108	578	19,187	41,627	-7,490
2016	21,330	995	5,590	0	27,916	0	0	0	19,847	705	18,889	39,441	-11,526
2017	18,064	995	11,468	0	30,527	0	0	0	16,634	833	16,370	33,837	-3,310
2018	21,707	995	24,557	0	47,259	0	0	0	12,966	961	15,674	29,601	17,659
2019	21,301	995	26,546	0	48,843	0	0	0	10,218	1,010	16,409	27,638	21,205
2020	21,328	995	26,239	0	48,562	0	0	0	8,343	1,010	16,892	26,245	22,317
2021	20,062	995	27,736	0	48,793	0	0	0	7,446	1,010	18,282	26,739	22,055
2022	26,688	995	12,328	0	40,011	0	0	0	6,934	1,010	18,439	26,384	13,627
2023	28,736	995	20,599	0	50,330	0	0	0	5,241	1,010	18,898	25,150	25,180
2024	22,729	995	28,753	0	52,477	0	0	0	3,294	1,010	19,277	23,581	28,896
2025	22,101	995	29,640	0	52,736	0	0	0	2,709	1,010	19,789	23,509	29,227
2026	29,665	995	14,489	0	45,149	0	0	0	2,574	1,010	20,246	23,830	21,319
2027	24,986	995	35,271	0	61,252	0	0	0	2,371	1,010	20,692	24,073	37,178
2028	24,502	995	28,191	0	53,688	0	0	0	2,092	1,010	21,163	24,266	29,422
2029	26,767	995	7,254	0	35,016	0	0	0	1,687	1,010	21,770	24,467	10,549
2030	28,311	995	12,393	0	41,699	0	0	0	1,930	1,010	22,266	25,207	16,492
2031	29,254	995	12,787	0	43,036	0	0	0	2,175	1,010	22,777	25,963	17,074
2032	30,279	995	13,227	0	44,501	0	0	0	2,686	1,010	23,239	26,935	17,565
2033	31,193	995	13,940	0	46,128	0	0	0	2,643	1,010	23,826	27,479	18,649
2034	31,757	995	14,097	0	46,849	0	0	0	2,770	1,010	24,258	28,039	18,810
2035	33,317	995	14,967	0	49,279	0	0	0	2,912	1,010	24,891	28,814	20,465
2036	34,539	995	15,674	0	51,207	0	0	0	2,818	1,010	25,469	29,297	21,910
2037	35,549	995	16,113	0	52,657	0	0	0	8,298	1,010	26,085	35,393	17,263
NOMINAL	644,702	25,464	450,324	0	1,120,490	831	0	0	241,001	23,357	518,397	783,587	336,903
NPV	188,953	8,450	141,000	0	338,403	514	0	0	130,891	6,944	159,259	297,608	40,795

Utility Discount Rate = 8.48 Benefit Cost Ratio = 1.137

PROGRAM: Business Energy Response - Participant

		BEN	EFITS			COSTS		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SAVINGS IN		OTHER		P	ARTICIPANT'S	3	NET BENEFIT:
	PARTICIPANT'	INCENTIVE	'ARTICIPANT'	TOTAL	PARTICIPANT'S	BILL	TOTAL	TO
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	PARTICIPANT
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	3	50	0	53	0	0	0	53
2011	5	66	0	71	0	0	0	71
2012	9,339	194	0	9,533	0	0	0	9,533
2013	16,765	322	0	17,087	0	0	0	17,087
2014	17,498	450	0	17,947	0	0	0	17,947
2015	19,187	578	0	19,764	0	0	0	19,764
2016	18,889	705	0	19,594	0	0	0	19,594
2017	16,370	833	0	17,203	0	0	0	17,203
2018	15,674	961	0	16,635	0	0	0	16,635
2019	16,409	1,010	0	17,420	0	0	0	17,420
2020	16,892	1,010	0	17,902	0	0	0	17,902
2021	18,282	1,010	0	19,293	0	0	0	19,293
2022	18,439	1,010	0	19,450	0	0	0	19,450
2023	18,898	1,010	0	19,909	0	0	0	19,909
2024	19,277	1,010	0	20,287	0	0	0	20,287
2025	19,789	1,010	0	20,800	0	0	0	20,800
2026	20,246	1,010	0	21,256	0	0	0	21,256
2027	20,692	1,010	0	21,702	0	0	0	21,702
2028	21,163	1,010	0	22,174	0	0	0	22,174
2029	21,770	1,010	0	22,780	0	0	0	22,780
2030	22,266	1,010	0	23,277	0	0	0	23,277
2031	22,777	1,010	0	23,788	0	0	0	23,788
2032	23,239	1,010	0	24,249	0	0	0	24,249
2033	23,826	1,010	0	24,836	0	0	0	24,836
2034	24,258	1,010	0	25,269	0	0	0	25,269
2035	24,891	1,010	0	25,902	0	0	0	25,902
2036	25,469	1,010	0	26,479	0	0	0	26,479
2037	26,085	1,010	0	27,095	0	0	0	27,095
NOMINAL	518,397	23,357	0	541,754	0	0	0	541,754
NPV	159,259	6,944	0	166,203	0	0	0	166,203

Utility Discount Rate = 8.48
Benefit Cost Ratio = 9999

PROGRAM: Business Energy Response - TRC

			BENEFITS					CC	STS			
	(1) TOTAL	(2) AVOIDED	(3) AVOIDED	(4) OTHER	(5)	(6)	(7) TOTAL	(8) INCREASED	(9) INCREASED	(10) UTILITY	(11)	(12)
	FUEL & O&M			PARTICIPANT	TOTAL	PARTICIPANT'S		T&D CAP.	GEN. CAP.	PROGRAM	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	5	0	0	0	5	0	0	0	0	10,940	10,940	-10,936
2011	7	0	0	0	7	0	0	0	0	13,780	13,780	-13,772
2012	9,439	585	0	0	10,024	0	0	0	0	20,734	20,734	-10,709
2013	20,588	995	6,833	0	28,416	0	0	0	0	24,301	24,301	4,115
2014	14,705	995	14,287	0	29,987	0	76	0	0	21,551	21,628	8,360
2015	15,799	995	17,343	0	34,137	0	755	0	0	21,108	21,863	12,275
2016	21,330	995	5,590	0	27,916	0	0	0	0	19,847	19,847	8,068
2017	18,064	995	11,468	0	30,527	0	0	0	0	16,634	16,634	13,893
2018	21,707	995	24,557	0	47,259	0	0	0	0	12,966	12,966	34,293
2019	21,301	995	26,546	0	48,843	0	0	0	0	10,218	10,218	38,625
2020	21,328	995	26,239	0	48,562	0	0	0	0	8,343	8,343	40,219
2021	20,062	995	27,736	0	48,793	0	0	0	0	7,446	7,446	41,348
2022	26,688	995	12,328	0	40,011	0	0	0	0	6,934	6,934	33,077
2023	28,736	995	20,599	0	50,330	0	0	0	0	5,241	5,241	45,089
2024	22,729	995	28,753	0	52,477	0	0	0	0	3,294	3,294	49,184
2025	22,101	995	29,640	0	52,736	0	0	0	0	2,709	2,709	50,027
2026	29,665	995	14,489	0	45,149	0	0	0	0	2,574	2,574	42,576
2027	24,986	995	35,271	0	61,252	0	0	0	0	2,371	2,371	58,881
2028	24,502	995	28,191	0	53,688	0	0	0	0	2,092	2,092	51,596
2029	26,767	995	7,254	0	35,016	0	0	0	0	1,687	1,687	33,329
2030	28,311	995	12,393	0	41,699	0	0	0	0	1,930	1,930	39,769
2031	29,254	995	12,787	0	43,036	0	0	0	0	2,175	2,175	40,861
2032	30,279	995	13,227	0	44,501	0	0	0	0	2,686	2,686	41,815
2033	31,193	995	13,940	0	46,128	0	0	0	0	2,643	2,643	43,485
2034	31,757	995	14,097	0	46,849	0	0	0	0	2,770	2,770	44,078
2035	33,317	995	14,967	0	49,279	0	0	0	0	2,912	2,912	46,367
2036	34,539	995	15,674	0	51,207	0	0	0	0	2,818	2,818	48,389
2037	35,549	995	16,113	0	52,657	0	0	0	0	8,298	8,298	44,358
MINAL	644,702	25,464	450,324	0	1,120,490	0	831	0	0	241,001	241,832	878,658
V	188,953	8,450	141,000	0	338,403	1111110	514	0	0	130,891	131,405	206,998

Utility Discount Rate = 8.48

Benefit Cost Ratio = 2.575

VI. DEMAND-SIDE RENEWABLE PORTFOLIO

The Demand Side Renewable Portfolio was designed to emphasize the benefits of solar photovoltaic technology and encourage the development of renewable programs, with an added focus placed on low-income and education pilots. Additionally, Progress Energy endeavored to collaborate with state initiatives and provide interested customers with the option to voluntarily support renewable efforts. This portfolio encourages education of energy efficiency by recommending an energy audit be performed on the home or business prior to participation.

The Demand-Side Renewable Energy Portfolio is comprised of the following pilot programs:

- Solar Water Heating for Low-income Residential
- Solar Water Heating with Energy Management
- Residential Solar Photovoltaic
- Commercial Solar Photovoltaic
- Photovoltaic for Schools
- Research & Demonstration

Incentive levels and specific eligibility requirements for the initial measures promoted in these pilot programs will be presented in the Program Participation Standards. Customer participation will be evaluated on an on-going basis; funds may be moved from one pilot program to another based upon actual participation. Progress Energy will implement these pilot programs over a five-year period to evaluate the system impacts.

A. SOLAR WATER HEATING FOR LOW INCOME RESIDENTIAL CUSTOMERS PILOT

Program Start Date:

Proposed to start in 2011

Program Description

The Solar Water Heating for the Low-income Residential Customers Pilot is a custom renewable

energy measure designed to assist low-income families with energy costs by incorporating a

solar thermal water heating system in their residence while it is under construction. Progress

Energy will collaborate with non-profit builders to provide low-income families with a

residential solar thermal water heater. The solar thermal system will be provided at no cost to

the non-profit builders or the residential participants.

Policies and Procedures

The incentive for this program is the total cost of the solar thermal system plus the associated

installation cost. The program will be limited to a targeted annual incentive cap of \$114,000.

The incentive cap for this program has been revised from the value stated in PEF's DSM

Program Plan as filed on March 30, 2010, due to a scrivener's error found in the development of

this revised Plan, and the correction is being made with this filing.

Program Participation

Annual participation estimates for the Solar Water Heating for Low Income Residential Customers Pilot program are shown in the table below:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)		Cumulative Penetration Level (%) ⁽⁴⁾
2011	1,473,688	896	30 117	3.3%
2012	1,495,098	864	30	6.9%
2013	1,521,451	817	30	11.0%
2014	1,548,531	753	30	15.9%

All numbers annual except cumulative penetration level

- 1. Total Number of Customers is the forecast of all residential customers from the Progress Energy 2009 Ten Year Site Plan.
- 2. Eligible customers based on U.S. Census block data for income qualifications.
- Annual number of program participants represents the projected number of low-income homes to participate in this pilot annually. There are no new participants beyond the 5-year time frame of this Pilot.
- 4. Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total pilot savings were developed by first estimating per customer savings and, annual projected participation. The total pilot savings were then computed as the product of those two variables for each year, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	2,314	0.40	0.37	69,420	12	11
2012	2,314	0.40	0.37	69,420	12	11
2013	2,314	0.40	0.37	69,420	12	11
2014	2,314	0.40	0.37	69,420	12	11

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	2,466	0.43	0.39	74,295	13	12
2012	2,466	0.43	0.39	74,295	13	12
2013	2,466	0.43	0.39	74,295	13	12
2014	2,466	0.43	0.39	74,295	13	12

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

Impact Evaluation Plan

Maintain record of capacity of systems installed.

Cost-Effectiveness

The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$359	\$906	-\$547	0.4
Participant	\$745	\$392	\$353	1.9
Total Resource Cost	\$359	\$553	-\$194	0.65

B. SOLAR WATER HEATING WITH ENERGY MANAGEMENT PROGRAM

Program Start Date:

2007

Proposed modification in 2011

Program Description

The Solar Water Heating with Energy Management Program encourages residential customers to

install new solar thermal water heating systems on their residence. This program incorporates a

long standing cost effective Demand Side Management program with the requirement for

customers to participate in our residential demand response program.

Policies and Procedures

There are two incentives associated with this program. First, participants will receive a one-time

\$550 rebate designed to reduce the upfront cost of the renewable energy system. Second,

participants will receive a monthly bill credit associated with their participation in the residential

demand response program.

This program was designed with the support and input of the solar industry. The program will

record participant occupancy levels to capture the most accurate energy savings. The program

will be limited to a targeted annual incentive cap of \$1,237,500.

Program Participation

Annual participation estimates for the Solar Water Heating with Energy Management program are shown in the table below:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)		Cumulative Penetration Level (%) ⁽⁴⁾
2011	1,473,688	1,223,161	2,250	0.2%
2012	1,495,098	1,240,931	2,250	0.4%
2013	1,521,451	1,262,804	2,250	0.5%
2014	1,548,531	1,285,281	2,250	0.7%

- 1. Total Number of Customers is the forecast of all residential customers from the Progress Energy 2009 Ten Year Site Plan.
- 2. Eligible customers is the total number of customers less existing participation
- Annual number of program participants represents the projected number of homes to be involved in this pilot by year. There are no new participants beyond the 5-year time frame of this Pilot.
- 4. Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating per customer savings and, annual projected participation, multiplied by measure. The total program savings were then computed as the sum of the individual customer savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1,718	2.14	1.11	3,865,725	4,815	2,491
2012	1,718	2.14	1.11	3,865,725	4,815	2,491
2013	1,718	2.14	1.11	3,865,725	4,815	2,491
2014	1,718	2.14	1.11	3,865,725	4,815	2,491

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1,831	2.28	1.18	4,137,209	5,153	2,666
2012	1,831	2.28	1.18	4,137,209	5,153	2,666
2013	1,831	2.28	1.18	4,137,209	5,153	2,666
2014	1,831	2.28	1.18	4,137,209	5,153	2,666

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

Impact Evaluation Plan

Maintain record of capacity of systems installed.

Cost-Effectiveness

The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$34,097	\$28,707	\$5,390	1.19
Participant	\$33,388	\$28,811	\$4,577	1.16
Total Resource Cost	\$41,138	\$31,171	\$9,967	1.32

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

C. RESIDENTIAL SOLAR PHOTOVOLTAIC PILOT

Program Start Date:

Proposed to start in 2011

Program Description

The Solar PV pilot encourages residential customers to install new solar photovoltaic (PV) systems on their home. This pilot promotes the installation of renewable energy on energy efficient homes by requiring customers to participate in at least one residential energy efficiency measure. The program design includes an annual reservation process for pre-approval to ensure the incentive expenditure cap is available for participation.

Goals of the program are:

- Provide residential customers with a higher return on investment in PV systems
- Increase renewable energy generation on Progress Energy's system
- Increase participation in existing residential Demand Side Management measures

Policies and Procedures

This program will provide participating residential customers a rebate of up to \$2.00 per Watt of the PV dc power rating up to a \$20,000 maximum for installing a new photovoltaic system. This rebate is designed to reduce the initial investment required to install a qualified renewable solar

energy system. The program will be limited to a targeted annual incentive cap of \$1,000,000 per year.

Participation with this program is intended to support and collaborate with state initiatives. As such, Progress Energy anticipates these rebates would be used with state funds to limit Florida residents to a maximum incentive of \$4.00 per Watt total when all state, local, and utility incentives are combined. Progress Energy will work with our customers to endeavor to not to exceed this incentive cap.

Program Participation

Annual participation estimates for the Residential Solar Photovoltaic Pilot program are shown in the table below:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2011	1,473,688	1,473,688	100	0.0%
2012	1,495,098	1,495,098	100	0.0%
2013	1,521,451	1,521,451	100	0.0%
2014	1,548,531	1,548,531	100	0.0%

All numbers annual except cumulative penetration level

- 1. Total Number of Customers is the forecast of all Residential customers from the Progress Energy 2009 Ten Year Site Plan.
- 2. Eligible customers represent all residential customers.
- Annual number of program participants represents the projected number of homes to be involved in this pilot by year. There are no new participants beyond the 5-year time frame of this Pilot.
- 4. Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total pilot savings were developed by first estimating per customer savings and, annual projected participation, multiplied by measure. The total pilot savings were then computed as the sum of the individual customer savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	8,340	0.00	1.58	833,960	77.138	158
2012	8,340	0.00	1.58	833,960	-	158
2013	8,340	0.00	1.58	833,960	-3	158
2014	8,340	0.00	1.58	833,960		158

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	8,887	0.00	1.68	892,528	native - Gagarie 1.	169
2012	8,887	0.00	1.68	892,528		169
2013	8,887	0.00	1.68	892,528	tia uni sa 🏨 ti	169
2014	8,887	0.00	1.68	892,528	-	169

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

Annual incremental coincident winter KW reductions for this Pilot program are are De Minimus and round to zero.

Impact Evaluation Plan

Maintain record of capacity of systems installed.

Cost-Effectiveness

The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$4,469	\$8,761	-\$4,292	0.51
Participant	\$11,361	\$13,958	-\$2,597	0.81
Total Resource Cost	\$7,511	\$14,400	-\$6,889	0.52

D. COMMERCIAL SOLAR PHOTOVOLTAIC PILOT

Program Start Date:

Proposed to start in 2011

Program Description

Solar PV pilot encourages Commercial customers to install new solar photovoltaic (PV) systems on their facilities. This pilot promotes the installation of renewable on energy efficient businesses by requiring customers to participate in at least one commercial energy efficiency measure. The program design includes an annual reservation process for pre-approval to ensure the incentive expenditure cap is available for participation. The program design also provides commercial customers with a higher return on investment in PV systems designed to:

- Increase renewable energy generation on Progress Energy's system
- Increase participation in existing Commercial Demand Side Management measures

Policies and Procedures

This program will provide participating commercial customers who install a new photovoltaic system with a tiered rebate up to the following incentive levels, based on the PV dc power rating:

- \$2.00 per Watt for the first 10 KW
- \$1.50 per Watt for 11KW to 50 KW
- \$1.00 per Watt for 51KW to 100 KW

The rebate is designed to reduce the initial investment required to install a qualified renewable solar energy system. Total incentives per participant will be limited to \$130,000, based on a maximum installation of 100KW. Program design includes an annual reservation process for pre-approval to ensure the incentive expenditure cap is available for participation. The program will be limited to a targeted annual incentive cap of \$1,000,000 per year.

Participation with this program is intended to support and collaborate with state initiatives. As such, Progress Energy anticipates these rebates would be used with state funds to limit Florida business owners to a maximum incentive of \$4.00 per Watt total when all state, local, and utility incentives are combined. Progress Energy will work with our customers to endeavor to not to exceed this incentive cap.

Program Participation

Participation estimates for the Commercial Solar Photovoltaic Pilot program are shown in the following table:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)		Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	7,524	23	0.3%
2012	175,147	7,562	23	0.6%
2013	178,542	7,600	23 1711215	0.9%
2014	182,030	7,638	23	1.2%

All numbers annual except cumulative penetration level

- Total Number of Customers is the forecast of all Commercial/Industrial customers from the Progress Energy 2009 Ten Year Site Plan.
- Eligible customers are the estimated number of customers with electric water heater that qualifies for the load management program.
- Annual number of program participants represents the projected number of commercial participants in this pilot annually. There are no new participants beyond the 5-year time frame of this Pilot.
- 4. Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total pilot savings were developed by first estimating per customer savings and annual projected participation, multiplied by measure. The total pilot savings were then computed as the sum of the individual customer savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	41,698		7.87	959,052	-	181
2012	41,698	-	7.87	959,052	-	181
2013	41,698		7.87	959,052	-	181
2014	41,698	-	7.87	959,052	-	181

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	44,158	-	8.33	1,019,184	9=	192
2012	44,158	-	8.33	1,019,184	-	192
2013	44,158	_	8.33	1,019,184	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	192
2014	44,158	-	8.33	1,019,184	N=	192

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

Annual incremental coincident winter kW reductions for this Pilot program are De Minimus and round to zero.

Impact Evaluation Plan

Maintain record of capacity of systems installed.

Cost-Effectiveness

The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$5,119	\$8,809	-\$3,690	0.58
Participant	\$10,904	\$12,714	-\$1,810	0.86
Total Resource Cost	\$7,713	\$13,213	-\$5,500	0.58

E. PHOTOVOLTAIC FOR SCHOOLS PILOT

Program Start Date:

Proposed to start in 2010

Program Description

The Schools Pilot is designed to assist schools with energy costs while promoting energy education. This program will provide participating public schools with new photovoltaic systems at no cost to the school. These systems will be installed, owned, operated and maintained by Progress Energy for a period of 5 years, after which the school assumes ownership and system benefits.

Goals of the program are:

- Eliminate the initial investment required to install a renewable solar PV system
- Increase renewable energy generation on Progress Energy's system
- Increase participation in existing residential Demand Side Management measures through energy education
- Increase solar education and awareness in Progress Energy communities and schools

Policies and Procedures

This program will fully fund the PV systems that are installed on the participating public schools.

These schools will enter an agreement allowing Progress Energy to own and operate the system for an initial 5 year period. Progress Energy will record the total PV system and installation cost

as a regulatory asset to be amortized over five years. After the 5-year contract period, the school will assume ownership of the PV system. Customers will apply for participation in this program. The program will be limited to an annual target of one system with a rating up to 100 KW installed on a post secondary public school and (10) 10 KW systems with battery backup option installed on public schools, preferably serving as emergency shelters.

Post secondary school participation will be prioritized based on attendance and consumption associated with their main campus. Public schools will be selected using a competitive process that aligns with Florida's SunSmart E-Shelters Program Application with an emphasis placed on the schools commitment to energy efficiency and renewable energy education.

The incentive for this program is the total equipment cost of the solar PV system plus the associated installation, operation and maintenance cost for the first five years. The solar PV system and installation will be considered a rebate that will eliminate the cost to the customer for providing new renewable energy system on their facilities.

This program places an emphasis on energy education and promotes environmental stewardship. As such, customers participating in the Winter-Only Energy Management or Year Round Energy Management residential demand response programs can elect to contribute their monthly credit toward a fund design to support and promote energy education. The fund will accumulate associated participant credits for a period of two years, at which time the customer may elect to renew for an additional two years. All proceeds collected from participating customers and their associated monthly credits will be used to promote energy efficiency and renewable energy educational opportunities.

Program Participation

Projected participation projections for K-12:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	100	10	10.0%
2012	175,147	101	10	19.8%
2013	178,542	102	10	29.4%
2014	182,030	103	10	38.8%

All numbers annual except cumulative penetration level

- 1. Total Number of Customers is the forecast of all Commercial customers from the Progress Energy 2009 Ten Year Site Plan.
- 2. Eligible customer projections represent the projected number of K-12 schools in the Progress Energy service area that also serve as an emergency shelter.
- 3. Annual number of program participants represents the projected number of K-12 schools participants in this pilot by year. There are no new participants beyond the 5-year time frame of this Pilot.
- 4. Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Projected participation projections for post secondary:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	er er kommer kannskapter 11 meteor men er en som en		9.0%
2012	175,147	11	1	17.8%
2013	178,542		response and all the later was a second	26.5%
2014	182,030	11	1	34.9%

All numbers annual except cumulative penetration level

- 1. Total Number of Customers is the forecast of all Commercial customers from the Progress Energy 2009 Ten Year Site Plan.
- Eligible customer projections represent the projected number of post secondary schools in the Progress Energy service area that also serve as an emergency shelter.
- 3. Annual number of program participants represents the projected number of post secondary schools participants in this pilot by year. There are no new participants beyond the 5-year time frame of this Pilot.
- Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total pilot savings were developed by first estimating per customer savings and, annual projected participation, multiplied by measure. The total pilot savings were then computed as the sum of the individual customer savings, and are shown in the following tables.

Projected savings estimates for K-12:

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	16679	-	3.20	166,792	-	32
2012	16679	-	3.20	166,792	-	32
2013	16679	\ <u>`</u>	3.20	166,792	(=)	32
2014	16679	1 -	3.20	166,792	-	32

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	17663	-	3.39	177,250	-	34
2012	17663	-	3.39	177,250	17.	34
2013	17663	-	3.39	177,250	-	34
2014	17663	-	3.39	177,250	:=:	34

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

Annual incremental coincident winter kW reductions for this Pilot program are De Minimus and round to zero.

Projected savings estimates for post secondary:

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	166,792	-	31.00	166,792	-	31
2012	166,792	<u> </u>	31.00	166,792	120	31
2013	166,792	-	31.00	166,792		31
2014	166,792	-	31.00	166,792	Contract of the contract of th	31

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	176,633		33	177,250		33
2012	176,633		33	177,250		33
2013	176,633		33	177,250		33
2014	176,633	-	33	177,250		33

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

Annual incremental coincident winter kW reductions for this Pilot program are De Minimus and round to zero.

Impact Evaluation Plan

Maintain record of capacity of systems installed.

Cost-Effectiveness

The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$1,681	\$7,913	-\$6,232	0.21
Participant	\$4,550	\$1,042	\$3,508	4.37
Total Resource Cost	\$5,100	\$7,824	-\$2,724	0.65

F. RESEARCH AND DEMONSTRATION PILOT

Program Start Date:

Proposed to start in 2011

Program Description

The purpose of this program component is to research technology and establish R&D initiatives to support the development of renewable energy pilot programs. Demonstration projects will provide real-world field testing to assist in the development of these initiatives. The program will be limited to a targeted annual expenditure cap of 5% of the total Demand-Side Renewable Portfolio annual expenditures.

Policies and Procedures

In general, each R&D project that is proposed and investigated will proceed as follows:

- Project concept or idea development
- Project research and design, including estimated costs and benefits
- Conduct field test, modeling, general research, and theoretical testing
- Each project will be designed to support the development of future solar and renewable energy pilot programs.

VII. TECHNOLOGY DEVELOPMENT PROGRAM

Program Start Date:

1995

Modifications proposed in 2010

Program Description

The purpose of this program is to establish a system for meeting the goals in Section 366.82(2),

Florida Statutes, and Rule 25-17, Florida Administrative Code. Progress Energy will undertake

certain research and demonstration projects which provide support for the development of cost-

effective demand reduction, energy efficiency, and alternative energy programs. Technical and

operational knowledge for the advances in the energy field may come from field demonstration

projects, research partnerships, webinars, general education, etc. The Technology Development

program is designed to allow Progress Energy to investigate technologies and support the

development of new programs from initial concept through submittal to the Commission for

consideration and approval. In general, each research and demonstration project that is proposed

and investigated will proceed as follows:

Project concept or idea development

Project research and design, including estimated costs and benefits

• Conduct field testing, pilot program, modeling, general research, and theoretical testing

• Evaluation of collected data, including cost-effectiveness

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- Acceptance or rejection of project for continuation as a program
- If accepted for continuation, application will be made to the Commission for approval to implement the program

Policies and Procedures

Eligible customers will be dependent on the type of project proposed and investigated as determined during the project research and design phase. Each project that is proposed and investigated will have to meet one or more of the goals identified in Section 366.82(2), Florida Statutes, and Rule 25-17, Florida Administrative Code. If not, the project will not proceed beyond the project concept or idea phase.

Program Participation

In many cases the demand reduction, energy efficiency, and alternative energy projects that are proposed and investigated under this program will require field testing with actual customers. After being defined in the project research and design phase, these projects will offer services or products to eligible customers on a voluntary basis.

Examples of potential projects that may be funded under this program include:

- Demand reduction, energy efficiency technologies, such as energy awareness devices
- Market transformation initiatives, such as smart charging for electric vehicles
- And other alternative energy and innovative technologies.

All costs will be included as part of the pre-approved project expenditures under this program.

Technology focused on energy efficiency, demand response, alternative energy, as well as innovations within the energy field in general have undergone significant development since 1995. With the current international focus in this arena, advances are even more rapid today. In addition, the way in which customers accept these products and the studies associated with how to offer products and services, further complicates the efficient and effective development of programs. In order to keep pace, an enhanced focus on research, demonstration, and development is needed.

At the discretion of Progress Energy, annual basis expenditures not to exceed \$2,000,000 annually, may be made and recovered through the Energy Conservation Cost Recovery clause for all research projects that are proposed and investigated. If any single project's expenditures exceed 25% of the pre-approved annual program budget, a status report will be filed as a component of the Energy Conservation Cost Recovery Clause Projection and True-Up filings.

The status report will identify each project under investigation with disbursements exceeding 25% of the pre-approved annual program budget, the scope and purpose of the project, its development schedule identifying accomplishments and projections, and the project's actual and proposed expenditures for Commission review. If total program expenditures are projected to exceed \$2,000,000 in a given year, Progress Energy will apply to the Commission staff for approval to proceed with the particular project which would cause Progress Energy to exceed the limit.

Finally, Progress Energy will account for and maintain records of all expenses for each project in accordance with Rule 25-17.015, Florida Administrative Code.

Savings Estimates

The Technology Development program makes it possible to obtain and use actual data from field tests, as well as customer and market research studies instead of relying heavily on engineering assumptions, model results, and estimates. Benefit and cost figures derived from these projects will be more accurate and provide enhanced reliability to forecasts, allowing better assessment of potential future demand reduction, energy efficiency, alternative, and innovative programs submitted to the Commission for approval.

A second benefit resulting from this research program is that the field tests, customer research and market evaluations uncover benefits, costs, and disadvantages that may be overlooked by an engineering estimate or evaluation. Real world testing provides actual experience on a small scale to be obtained. This should facilitate the decision-making process and improve the success rate of approved programs.

Consequently, program savings were not estimated during the planning stage and are not included in the Demand Side Management Plan totals. Any impacts obtained by this program will be calculated for each individual project and will be reported to the Commission to be counted toward achieving Progress Energy's conservation goals.

Impact Evaluation Plan

The methodology for monitoring and evaluating a project that is submitted to the Commission for approval as a program shall be determined during the project research and design phase and shall be refined during the field test or pilot program phase. Since projects will normally include a field test or pilot program, the data will be actual rather than estimated. In the event a project does not involve a field test or pilot program, the estimated or modeled savings will be documented with the methodology used.

Cost-Effectiveness

The cost-effectiveness of each project submitted to the Commission for approval to be implemented as a program shall be analyzed and reported using the Commission-approved cost-effectiveness tests.

VIII. QUALIFYING FACILITIES PROGRAM

Program Description

The purpose of this program is to meet the objectives and obligations established by Section 366.051, Florida Statutes, and the Commission's rules contained within Part III of Chapter 25-17, Florida Administrative Code, regarding the purchase of as-available energy and firm energy and capacity from qualifying facilities pursuant to standard offer and negotiated contracts.

Under the Qualifying Facilities program, Progress Energy develops standard offer contracts, negotiates, enters into, amends and restructures firm energy and capacity contracts entered into with qualifying cogeneration and small power production facilities, and administers all such contracts.

IX. STAFF-REQUESTED TABLES

The associated tables 1-3 provide a summary of cost effectiveness tests, demand and energy savings, and penetration rates for only those programs proposed with this Revised Goal Plan. Tables 4 and 5 are a summarization of program costs and ECCR rate impacts for all programs proposed in this filing, including the previously approved Demand Side Renewable Portfolio.

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Staff-Requested Tables

Table IX-1: Savings

Residential Programs

The tables below indicate the total annual and cumulative saving impacts (Summer Demand MW, Winter Demand MW, and Annual Energy (GWh) for the Residential Programs included in the Revised Goal, for years 2011 - 2019.

- Home Energy Check
- Home Energy Improvement
- Residential New Construction
- Neighborhood Energy Saver
- Low Income Weatherization Assistance
- Residential Energy Management
- Residential Lighting
- Residential Behavior Modification
- Residential Appliance Recycling

			Home Energy C	Check		
	Summer Demand	Winter Demand	Annual Energy	Cumulative	Cumulative	Cumulative
	(MW)	(MW)	(GWh)	Summer Demand	Winter Demand	Annual Energy
2011	9.66	5.95	25.88	9.66	5.95	25.88
2012	9.83	6.02	26.42	19.49	11.96	52.30
2013	9.82	5.99	26.43	29.31	17.95	78.73
2014	9.81	5.96	26.45	39.12	23.91	105.18
2015	9.81	5.94	26.49	48.93	29.85	131.67
2016	9.81	5.92	26.54	58.74	35.77	158.21
2017	9.82	5.90	26.60	68.55	41.67	184.80
2018	9.83	5.89	26.67	78.38	47.56	211.47
2019	9.84	5.88	26.76	88.22	53.44	238.23

			Home Energy Impr	ovement	And In	
	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)	Cumulative Summer Demand	Cumulative Winter Demand	Cumulative Annual Energy
2011	10.37	16.81	16.47	10.37	16.81	16.47
2012	11.27	18.21	18.95	21.64	35.01	35.43
2013	11.39	18.58	19.54	33.03	53.59	54.97
2014	12.46	20.35	21.98	45.48	73.94	76.95
2015	12.80	20.84	23.20	58.28	94.78	100.15
2016	12.90	21.11	24.18	71.18	115.89	124.33
2017	10.40	17.08	20.48	81.58	132.97	144.81
2018	10.01	16.55	20.60	91.59	149.52	165.41
2019	10.09	16.78	21.44	101.68	166.30	186.85

. 4	Residential New Construction									
	Summer Demand	Winter Demand	Annual Energy	П	Cumulative	Cumulative	Cumulative			
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy			
2011	1.52	1.73	2.82		1.52	1.73	2.82			
2012	1.14	1.54	2.31		2.65	3.27	5.13			
2013	1.22	1.66	2.59		3.87	4.93	7.72			
2014	1.52	1.84	3.32		5.38	6.77	11.04			
2015	1.63	2.03	3.67		7.01	8.80	14.71			
2016	2.01	2.52	4.65		9.02	11.32	19.36			
2017	1.97	2.52	4.45		10.99	13.84	23.81			
2018	1.67	2.18	3.82		12.65	16.02	27.63			
2019	1.63	2.12	3.78		14.28	18.14	31.41			

	i		Neighborhood Ener	gy Saver		
	Summer Demand	Winter Demand	Annual Energy	Cumulative	Cumulative	Cumulative
a and a	(MW)	(MW)	(GWh)	Summer Demand	Winter Demand	Annual Energy
2011	2.59	1.95	5.94	2.59	1.95	5.94
2012	2.71	2.04	6.21	5.29	3.99	12.16
2013	2.87	2.16	6.58	8.16	6.15	18.74
2014	2.98	2.25	6.85	11.14	8.40	25.59
2015	2.19	1.65	5.02	13.33	10.05	30.61
2016	2.17	1.64	4.99	15.50	11.69	35.60
2017	1.93	1.50	4.62	17.42	13.18	40.22
2018	1.76	1.40	4.35	19.18	14.58	44.57
2019	1.67	1.34	4.21	20.85	15.92	48.78

			Low Income Weat	herization		
	Summer Demand	Winter Demand	Annual Energy	Cumulative	Cumulative	Cumulative
	(MW)	(MW)	(GWh)	Summer Demand	Winter Demand	Annual Energy
2011	0.30	0.35	0.66	0.30	0.35	0.66
2012	0.33	0.33	0.74	0.63	0.67	1.40
2013	0.32	0.30	0.75	0.94	0.97	2.15
2014	0.31	0.29	0.77	1.25	1.26	2.92
2015	0.33	0.36	0.80	1.58	1.62	3.73
2016	0.36	0.46	0.83	1.95	2.08	4.55
2017	0.37	0.48	0.84	2.32	2.56	5.40
2018	0.38	0.52	0.89	2.69	3.08	6.29
2019	0.40	0.59	0.93	3.09	3.68	7.22

	Residential Energy Management									
3013	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)	Cumulative Summer Demand	Cumulative Winter Demand	Cumulative Annual Energ				
2011	9.11	17.55	0.00	9.11	17.55	0.00				
2012	9.11	17.55	0.00	18.21	35.11	0.00				
2013	9.11	17.55	0.00	27.32	52.66	0.00				
2014	9.11	17.55	0.00	36.42	70.22	0.00				
2015	9.11	17.55	0.00	45.53	87.77	0.00				
2016	16.50	31.80	0.00	62.02	119.57	0.00				
2017	16.50	31.80	0.00	78.52	151.37	0.00				
2018	16.50	31.80	0.00	95.01	183.18	0.00				
2019	11.53	22.23	0.00	106.54	205.40	0.00				

			Residential Lig	ghtii	ng		
	Summer Demand	Winter Demand	Annual Energy	Π	Cumulative	Cumulative	Cumulative
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy
2011	2.25	0.00	22.46		2.25	0.00	22.46
2012	2.24	0.00	22.37		4.48	0.00	44.83
2013	1.88	0.00	18.84		6.37	0.00	63.67
2014	1.55	0.00	15.52		7.92	0.00	79.19
2015	1.52	0.00	15.15		9.43	0.00	94.34
2016	1.47	0.00	14.69		10.90	0.00	109.03
2017	1.14	0.00	11.39	,,	12.04	0.00	120.43
2018	1.10	0.00	10.96		13.14	0.00	131.39
2019	1.10	0.00	10.96		14.23	0.00	142.35

			R	esidential Applianc	e R	ecycling		
	Summer Demand	Winter Demand		Annual Energy		Cumulative	Cumulative	Cumulative
	(MW)	(MW)		(GWh)		Summer Demand	Winter Demand	Annual Energy
2011	0.73	0.73		6.20		0.73	0.73	6.20
2012	1.11	1.11		9.43		1.84	1.84	15.64
2013	1.13	1.13		9.56		2.97	2.97	25.20
2014	1.13	1.13		9.63		4.10	4.10	34.82
2015	1.16	1.16		9.82		5.25	5.25	44.64
2016	1.18	1.18		10.01		6.43	6.43	54.65
2017	1.20	1.20		10.20	",	7.63	7.63	64.85
2018	1.22	1.22		10.33		8.85	8.85	75.18
2019	1.23	1.23	į	10.46		10.08	10.08	85.64

		F	Residential Behavior	Mo	dification		
	Summer Demand	Winter Demand	Annual Energy	\Box	Cumulative	Cumulative	Cumulative
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy
2011	3.20	3.20	13.32		3.20	3.20	13.32
2012	3.20	3.20	13.32		6.39	6.39	26.63
2013	3.20	3.20	13.32		9.59	9.59	39.95
2014	3.20	3.20	13.32		12.78	12.78	53.27
2015	3.20	3.20	13.32		15.98	15.98	66.58
2016	3.20	3.20	13.32		19.18	19.18	79.90
2017	3.20	3.20	13.32	**	22.37	22.37	93.21
2018	3.20	3.20	13.32		25.57	25.57	106.53
2019	3.20	3.20	13.32		28.76	28.76	119.85

Commercial Programs

The tables below indicate the total annual and cumulative saving impacts (Summer Demand MW, Winter Demand MW, and Annual Energy (GWh) for the Commercial Programs included in the Revised Goal, for years 2011 - 2019.

- Business Energy Check
- Better Business
- Commercial/Industrial New Construction
- Business Energy Saver
- Commercial Green Building New Construction
- Innovation Incentive
- Standby Generation
- Interruptible Service
- Curtailable Service
- Business Energy Response

			Business Energy	Check		
	Summer Demand	Winter Demand	Annual Energy	Cumulative	Cumulative	Cumulative
	(MW)	(MW)	(GWh)	Summer Demand	Winter Demand	Annual Energy
2011	0.82	0.34	1.37	0.82	0.34	1.37
2012	0.86	0.36	1.44	1.67	0.69	2.81
2013	0.90	0.37	1.51	2.57	1.07	4.32
2014	0.93	0.39	1.56	3.50	1.45	5.88
2015	0.41	0.22	1.01	3.90	1.67	6.89
2016	0.40	0.22	0.99	4.30	1.89	7.89
2017	0.39	0.21	0.97	4.69	2.10	8.86
2018	0.38	0.21	0.95	5.08	2.31	9.81
2019	0.38	0.21	0.95	5.46	2.52	10.76

			Better Busine	ess		
	Summer Demand	Winter Demand	Annual Energy	Cumulative	Cumulative	Cumulative
	(MW)	(MW)	(GWh)	Summer Demand	Winter Demand	Annual Energy
2011	19.53	8.51	60.10	19.53	8.51	60.10
2012	18.01	7.31	55.80	37.54	15.82	115.90
2013	14.04	4.50	44.95	51.58	20.32	160.85
2014	13.65	3.76	44.41	65.23	24.08	205.26
2015	10.74	2.94	34.98	75.97	27.02	240.24
2016	9.22	2.52	30.02	85.18	29.54	270.26
2017	6.14	1.68	20.01	91.33	31.22	290.26
2018	5.67	1.56	18.48	97.00	32.78	308.74
2019	5.22	1.43	17.01	102.22	34.21	325.75

	Commercial/Industrial New Construction									
	Summer Demand	Winter Demand	Annual Energy	П	Cumulative	Cumulative	Cumulative			
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy			
2011	1.66	0.62	4.24		1.66	0.62	4.24			
2012	1.52	0.57	3.87		3.18	1.19	8.11			
2013	1.78	0.96	4.31		4.96	2.15	12.42			
2014	1.87	1.01	4.47		6.82	3.16	16.89			
2015	1.46	0.80	3.41		8.29	3.96	20.30			
2016	1.33	0.74	3.12		9.62	4.70	23.42			
2017	1.31	0.77	2.95		10.93	5.47	26.37			
2018	1.22	0.72	2.74		12.14	6.20	29.12			
2019	1.19	0.72	2.69		13.33	6.92	31.81			

	Business Energy Saver									
	Summer Demand	Winter Demand	Annual Energy	Cumulative	Cumulative	Cumulative				
	(MW)	(MW)	(GWh)	Summer Demand	Winter Demand	Annual Energy				
2011	0.17	0.04	0.24	0.17	0.04	0.24				
2012	0.21	0.05	0.29	0.38	0.10	0.54				
2013	0.21	0.05	0.29	0.59	0.15	0.83				
2014	0.21	0.05	0.29	0.79	0.20	1.12				
2015	0.21	0.05	0.29	1.00	0.25	1.41				
2016	0.21	0.05	0.29	1.21	0.30	1.70				
2017	0.21	0.05	0.29	1.42	0.36	2.00				
2018	0.21	0.05	0.29	1.62	0.41	2.29				
2019	0.21	0.05	0.29	1.83	0.46	2.58				

			Commercial Green	ı Bı	uilding		
	Summer Demand	Winter Demand	Annual Energy	П	Cumulative	Cumulative	Cumulative
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy
2011	0.22	0.14	0.51		0.22	0.14	0.51
2012	0.36	0.22	0.82		0.58	0.35	1.33
2013	0.44	0.27	1.02		1.02	0.63	2.35
2014	0.51	0.31	1.16		1.53	0.93	3.51
2015	0.51	0.31	1.18		2.04	1.25	4.69
2016	0.46	0.28	1.06		2.50	1.53	5.75
2017	0.49	0.30	1.13		2.99	1.83	6.88
2018	0.47	0.29	1.07		3.46	2.11	7.95
2019	0.52	0.32	1.20		3.98	2.43	9.15

TO be	451		Innovation Ince	ntive	0.2	
70 Fd 70 Fd	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)	Cumulative Summer Demand	Cumulative Winter Demand	Cumulative Annual Energy
2011	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00
2017	0.00	0.00	0.00	0.00	0.00	0.00
2018	0.00	0.00	0.00	0.00	0.00	0.00
2019	0.00	0.00	0.00	0.00	0.00	0.00

	Standby Generation							
	Summer Demand	Winter Demand	Annual Energy	Π	Cumulative	Cumulative	Cumulative	
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy	
2011	4.25	4.25	0.00		4.25	4.25	0.00	
2012	4.25	4.25	0.00		8.50	8.50	0.00	
2013	4.25	4.25	0.00		12.75	12.75	0.00	
2014	4.25	4.25	0.00		17.00	17.00	0.00	
2015	4.25	4.25	0.00		21.26	21.26	0.00	
2016	4.25	4.25	0.00		25.51	25.51	0.00	
2017	4.25	4.25	0.00		29.76	29.76	0.00	
2018	4.25	4.25	0.00		34.01	34.01	0.00	
2019	4.25	4.25	0.00		38.26	38.26	0.00	

	Interruptible Service								
	Summer Demand	Winter Demand	Annual Energy	Cumulative	Cumulative	Cumulative			
	(MW)	(MW)	(GWh)	Summer Demand	Winter Demand	Annual Energy			
2011	0.32	0.34	0.00	0.32	0.34	0.00			
2012	0.32	0.34	0.00	0.64	0.67	0.00			
2013	0.32	0.34	0.00	0.96	1.01	0.00			
2014	0.32	0.34	0.00	1.28	1.35	0.00			
2015	0.32	0.34	0.00	1.61	1.69	0.00			
2016	0.32	0.34	0.00	1.93	2.02	0.00			
2017	0.32	0.34	0.00	2.25	2.36	0.00			
2018	0.32	0.34	0.00	2.57	2.70	0.00			
2019	0.32	0.34	0.00	2.89	3.03	0.00			

			Curtailable Se	rvic	ce		
	Summer Demand	Winter Demand	Annual Energy		Cumulative	Cumulative	Cumulative
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy
2011	0.20	0.30	0.00		0.20	0.30	0.00
2012	0.20	0.30	0.00		0.40	0.60	0.00
2013	0.20	0.30	0.00		0.60	0.90	0.00
2014	0.20	0.30	0.00		0.80	1.20	0.00
2015	0.20	0.30	0.00		1.01	1.50	0.00
2016	0.20	0.30	0.00		1.21	1.80	0.00
2017	0.20	0.30	0.00		1.41	2.10	0.00
2018	0.20	0.30	0.00		1.61	2.40	0.00
2019	0.20	0.30	0.00		1.81	2.70	0.00

			Business Energy R	esponse	10)	7 (6)
	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)	Cumulative Summer Demand	Cumulative Winter Demand	Cumulative Annual Energy
2011	0.87	0.00	0.00	0.87	0.00	0.00
2012	6.80	0.00	0.00	7.67	0.00	0.00
2013	10.19	3.39	10.97	17.86	3.39	10.97
2014	11.88	5.08	16.45	29.74	8.47	27.42
2015	15.27	8.47	27.42	45.01	16.94	54.84
2016	15.27	8.47	27.42	60.28	25.40	82.25
2017	15.27	8.47	27.42	75.54	33.87	109.67
2018	15.27	8.47	27.42	90.81	42.34	137.09
2019	12.00	5.65	18.28	102.81	47.99	155.37

Other Programs

The tables below indicate the total annual and cumulative saving impacts (Summer Demand MW, Winter Demand MW, and Annual Energy (GWh) for the Other Programs included in the Revised Goal, for years 2011 - 2019.

- Technology Development
- Qualifying Facilities
- Demand Side Renewable Portfolio¹

¹ Previously approved in Order No. PSC-10-0605-PAA-EG

			Technology Deve	lopment		<u>i</u>
	Summer Demand	Winter Demand	Annual Energy	Cumulative	Cumulative	Cumulative
	(MW)	(MW)	(GWh)	Summer Demand	Winter Demand	Annual Energy
2011	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00
2017	0.00	0.00	0.00	0.00	0.00	0.00
2018	0.00	0.00	0.00	0.00	0.00	0.00
2019	0.00	0.00	0.00	0.00	0.00	0.00

			Qualifying Fac	ilities		
	Summer Demand	Winter Demand	Annual Energy	Cumula	tive Cumulative	Cumulative
	(MW)	(MW)	(GWh)	Summer D	emand Winter Demand	Annual Energy
2011	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00
2017	0.00	0.00	0.00	0.00	0.00	0.00
2018	0.00	0.00	0.00	0.00	0.00	0.00
2019	0.00	0.00	0.00	0.00	0.00	0.00

	Demand Side Renewable Portfolio							
	Summer Demand	Winter Demand	Annual Energy	Π	Cumulative	Cumulative		Cumulative
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand		Annual Energy
2011	3.11	5.17	6.48		3.11	5.17		6.48
2012	3.11	5.17	6.48		6.21	10.33		12.96
2013	3.11	5.17	6.48		9.32	15.50		19.43
2014	3.11	5.17	6.48		12.42	20.66		25.91

Table IX-2: Penetration Rates

Residential Programs

The tables below indicate the penetration rates assumed for each program compared to historic rates for similar programs for the Residential Programs included in the Revised Goal, for years 2011 - 2019.

- Home Energy Check
- Home Energy Improvement
- Residential New Construction
- Neighborhood Energy Saver
- Low Income Weatherization Assistance
- Residential Energy Management
- Residential Lighting
- Residential Behavior Modification
- Residential Appliance Recycling

Historical penetration rates were based on the period 2007-2009.

	Home	e Energy Check	
	Eligible		
78.4	Customers	Participants	% Participation
2011	1,473,688	62,755	4.3%
2012	1,495,098	64,561	4.3%
2013	1,521,451	64,840	4.3%
2014	1,548,531	65,151	4.2%
2015	1,575,167	65,492	4.2%
2016	1,600,448	65,866	4.1%
2017	1,624,503	65,151	4.0%
2018	1,647,724	66,269	4.0%
2019	1,671,277	66,706	4.0%
% Histori	c Participation		
High	3.8%		
Low	2.9%		

	Home H	Energy Improvement	
	Eligible		
	Customers	Participants	% Participation
2011	1,473,688	36,883	2.5%
2012	1,495,098	40,137	2.7%
2013	1,521,451	37,705	2.5%
2014	1,548,531	40,674	2.6%
2015	1,575,167	42,019	2.7%
2016	1,600,448	42,842	2.7%
2017	1,624,503	35,061	2.2%
2018	1,647,724	34,308	2.1%
2019	1,671,277	35,025	2.1%
% Histor	ric Participation		
High	3.0%		
Low	1.5%		

6-46-7K-1	Residentia	l New Construction	pilione estimate esta a management
	Eligible Customers	Participants	% Participation
2011	16,273	3,301	16.8%
2012	21,410	3,167	12.6%
2013	26,353	3,580	10.5%
2014	27,080	5,083	11.7%
2015	26,636	4,880	11.9%
2016	25,281	4,686	11.6%
2017	24,055	3,981	11.3%
2018	23,221	3,305	10.5%
2019	23,553	3,206	9.7%
% Histori	c Participation		
High	62.1%		
Low	31.5%		

	Neighbor	hood Energy Saver	
	Eligible Customers	Participants	% Participation
2011	45,718	3,251	7.1%
2012	43,382	3,401	7.8%
2013	40,848	3,601	8.8%
2014	38,064	3,750	9.9%
2015	35,076	2,750	7.8%
2016	33,027	2,750	8.3%
2017	30,938	2,750	8.9%
2018	28,807	2,750	9.5%
2019	26,633	2,750	10.3%
% Histori	c Participation		
High	9.4%		
Low	9.4%		

	Low Inco	ome Weatherization	
	Eligible		
and the latest of the latest o	Customers	Participants	% Participation
2011	1,011	337	33.3%
2012	1,026	342	33.3%
2013	1,044	348	33.3%
2014	1,062	354	33.3%
2015	1,081	360	33.3%
2016	1,098	366	33.3%
2017	1,115	372	33.3%
2018	1,131	377	33.3%
2019	1,147	382	33.3%
% Histori	c Participation	***************************************	
High	50.0%		
Low	50.0%		

	Residential	Energy Management	
	Eligible		
	Customers	Participants	% Participation
2011	941,530	7,700	0.8%
2012	955,209	7,700	0.8%
2013	972,046	7,700	0.8%
2014	989,347	7,700	0.8%
2015	1,006,365	7,700	0.8%
2016	1,022,517	13,950	1.4%
2017	1,037,885	13,950	1.3%
2018	1,052,721	13,950	1.3%
2019	1,067,769	9,750	0.9%
% Historie	c Participation	***************************************	2.7
High	0.9%		
Low	0.7%		

	Resid	ential Lighting	and the same of th
i apin ingga	Eligible Customers	Participants	% Participation
2011	1,473,688	147,350	10.0%
2012	1,495,098	149,450	10.0%
2013	1,521,451	132,000	8.7%
2014	1,548,531	112,500	7.3%
2015	1,575,167	115,000	7.3%
2016	1,600,448	112,500	7.0%
2017	1,624,503	88,000	5.4%
2018	1,647,724	85,000	5.2%
2019	1,671,277	85,000	5.1%
% Histori	c Participation	- contrade	ajji is o tot deel
High	N/A		
Low	N/A		

	Residential.	Appliance Recycling	-
o really one to their — probability	Eligible Customers	Participants	% Participation
2011	1,473,688	7,251	0.5%
2012	1,495,098	11,025	0.7%
2013	1,521,451	11,175	0.7%
2014	1,548,531	11,251	0.7%
2015	1,575,167	11,475	0.7%
2016	1,600,448	11,700	0.7%
2017	1,624,503	11,925	0.7%
2018	1,647,724	12,075	0.7%
2019	1,671,277	12,225	0.7%
% Histori	c Participation		
High	N/A		
Low	N/A		

	Residential E	Behavior Modification	1
	Eligible		
	Customers	Participants	% Participation
2011	1,473,688	50,000	3.4%
2012	1,495,098	50,000	3.3%
2013	1,521,451	50,000	3.3%
2014	1,548,531	50,000	3.2%
2015	1,575,167	50,000	3.2%
2016	1,600,448	50,000	3.1%
2017	1,624,503	50,000	3.1%
2018	1,647,724	50,000	3.0%
2019	1,671,277	50,000	3.0%
% Histori	c Participation		·
High	N/A		
Low	N/A		

Commercial Programs

The tables below indicate the penetration rates assumed for each program compared to historic rates for similar programs for the Commercial Programs included in the Revised Goal, for years 2011 - 2019.

- Business Energy Check
- Better Business
- Commercial/Industrial New Construction
- Business Energy Saver
- Commercial Green Building New Construction
- Innovation Incentive
- Standby Generation
- Interruptible Service
- Curtailable Service
- Business Energy Response

	Busine	ss Energy Check	
	Eligible		
	Customers	Participants	% Participation
2011	170,886	3,000	1.8%
2012	175,147	3,090	1.8%
2013	178,542	3,214	1.8%
2014	182,030	3,375	1.9%
2015	185,461	3,611	1.9%
2016	188,717	3,792	2.0%
2017	191,817	3,906	2.0%
2018	194,809	4,023	2.1%
2019	197,848	4,063	2.1%
% Historic	e Participation		
High	1.7%		
Low	1.2%		

7	Ве	etter Business	
	Eligible		
	Customers	Participants	% Participation
2011	170,886	10,074	5.9%
2012	175,147	9,003	5.1%
2013	178,542	6,610	3.7%
2014	182,030	5,993	3.3%
2015	185,461	4,683	2.5%
2016	188,717	4,019	2.1%
2017	191,817	2,678	1.4%
2018	194,809	2,474	1.3%
2019	197,848	2,276	1.2%
% Histor	ic Participation		
High	1.0%		
Low	0.6%		

Historical participation is based on number of customers, projections are based on measures.

	Commercial/Inc	lustrial New Construc	etion
	Eligible Customers	Participants	% Participation
2011	3,653	398	10.9%
2012	4,261	402	9.4%
2013	3,395	406	11.9%
2014	3,488	410	11.7%
2015	3,431	414	12.1%
2016	3,256	418	12.8%
2017	3,100	422	13.6%
2018	2,992	426	14.2%
2019	3,039	431	14.2%
% Histori	c Participation	1000	
High	1.5%		
Low	1.1%		

Historical participation is based on number of customers, projections are based on measures.

	Busine	ess Energy Saver	Application of the second of t
a squada f	Eligible Customers	Participants	% Participation
2011	1,225	100	8.2%
2012	1,150	120	10.4%
2013	1,154	120	10.4%
2014	1,180	120	10.2%
2015	1,206	120	10.0%
2016	1,232	120	9.7%
2017	1,260	120	9.5%
2018	1,287	120	9.3%
2019	1,315	120	9.1%
% Historic	Participation		
High	N/A		
Low	N/A		

	Commer	cial Green Building	
	Eligible	P 1 40 10 10 10 10 10 10	
	Customers	Participants	% Participation
2011	3,653	140	3.8%
2012	4,261	224	5.3%
2013	3,395	280	8.2%
2014	3,488	318	9.1%
2015	3,431	322	9.4%
2016	3,256	291	8.9%
2017	3,100	308	9.9%
2018	2,992	294	9.8%
2019	3,039	329	10.8%
% Histori	e Participation		
High	N/A		
Low	N/A		

	Inno	vation Incentive	
	Eligible		
San Commission of the Commissi	Customers	Participants	% Participation
2011	170,886	2	0.0%
2012	175,147	2	0.0%
2013	178,542	2	0.0%
2014	182,030	2	0.0%
2015	185,461	2	0.0%
2016	188,717	2	0.0%
2017	191,817	2	0.0%
2018	194,809	2	0.0%
2019	197,848	2	0.0%
% Histori	ic Participation		- 1 v v v
High	0.0%		
Low	0.0%		

	Stane	dby Generation	in in	plane - magazine
	Eligible Customers	Participants		% Participation
2011	547	10		1.8%
2012	560	10		1.8%
2013	571	10		1.8%
2014	582	10		1.7%
2015	593	10		1.7%
2016	604	10		1.7%
2017	614	10		1.6%
2018	623	10		1.6%
2019	633	10		1.6%
% Histori	c Participation	i incom	10.1	
High	14.2%			
Low	4.4%			

	Intern	ruptible Service	
negrans (Eligible Customers	Participants	% Participation
2011	459	1 000	0.2%
2012	470	- 1	0.2%
2013	479	-1	0.2%
2014	489	1	0.2%
2015	498	1	0.2%
2016	507	1	0.2%
2017	515	1	0.2%
2018	523		0.2%
2019	531	1	0.2%
% Histori	c Participation	10000	
High	0.3%		
Low	0.0%		

	Cur	tailable Service	
	Eligible		
	Customers	Participants	% Participation
2011	906	1	0.1%
2012	928	1	0.1%
2013	946	1	0.1%
2014	965	1	0.1%
2015	983	1	0.1%
2016	1,000	1	0.1%
2017	1,017	1	0.1%
2018	1,032	1	0.1%
2019	1,049	1	0.1%
% Histori	c Participation		*
High	0.0%		
Low	0.0%		

	Business	s Energy Response	
	Eligible		
	Customers	Participants	% Participation
2011	170,886	7	0.0%
2012	175,147	904	0.5%
2013	178,542	6,905	3.9%
2014	182,030	9,904	5.4%
2015	185,461	15,904	8.6%
2016	188,717	15,905	8.4%
2017	191,817	15,904	8.3%
2018	194,809	15,904	8.2%
2019	197,848	10,814	5.5%
% Histori	c Participation		,
High	N/A		
Low	N/A		

Other Programs

The tables below indicate the penetration rates assumed for each program compared to historic rates for similar programs for the Residential Programs included in the Revised Goal, for years 2011 - 2019.

- Technology Development
- Qualifying Facilities
- Demand Side Renewable Portfolio²

² Previously approved in Order No. PSC-10-0605-PAA-EG

	Techno	logy Development	
	Eligible		
	Customers	Participants	% Participation
2011	0.00	0.00	0.0%
2012	0.00	0.00	0.0%
2013	0.00	0.00	0.0%
2014	0.00	0.00	0.0%
2015	0.00	0.00	0.0%
2016	0.00	0.00	0.0%
2017	0.00	0.00	0.0%
2018	0.00	0.00	0.0%
2019	0.00	0.00	0.0%
% Histori	e Participation		
High	0.0%		
Low	0.0%		

	Qua	lifying Facilities	
	Eligible Customers	Participants	% Participation
2011	0.00	0.00	0.0%
2012	0.00	0.00	0.0%
2013	0.00	0.00	0.0%
2014	0.00	0.00	0.0%
2015	0.00	0.00	0.0%
2016	0.00	0.00	0.0%
2017	0.00	0.00	0.0%
2018	0.00	0.00	0.0%
2019	0.00	0.00	0.0%
% Histori	e Participation	***************************************	
High	0.0%		
Low	0.0%		

Demand-Side Renewable Portfolio

CHECKS 133 E U.	Eligible	200	
10.1	Customers	Participants	% Participation
2011	896	30	3.3%
2012	864	30	3.5%
2013	817	30	3.7%
2014	753	30	4.0%
N. C.	Solar Water Heatin	ng with Energy Manag	gement
and a l	Eligible (1)		
1 1 11	Customers	Participants	% Participation
2011	1,223,161	2,250	0.2%
2012	1,240,931	2,250	0.2%
2013	1,262,804	2,250	0.2%
2014	1,285,281	2,250	0.2%
2011		l Solar Photovoltaic	
T	Eligible	1	
	Customers	Participants	% Participation
2011	1,473,688	100	0.0%
2012	1,495,098	100	0.0%
2013	1,521,451	100	0.0%
2014	1,548,531	100	0.0%
monte 9 of		al Solar Photovoltaic	562 B.
	Eligible		100
N.2125.41	Customers	Participants	% Participation
2011	7,524	23	0.3%
2012	7,562	23	0.3%
2013	7,600	23	0.3%
2014	7,638	23	0.3%
- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	Photovolta	aic for Schools Pilot	Our L. A.C.
YALL A	Eligible		
650 V	Customers	Participants	% Participation
2011	100	10	10.0%
2012	101	10	9.9%
2013	102	10	9.8%
2014	103	10	9.7%
	Photovoltaic for So	chools Pilot Post Seco	ondary
	Eligible)	33. (3
	Customers	Participants	% Participation
2011	11	1	9.0%
2012	_ 11	1	8.9%
2013	11	1	8.8%
2014	11	1	8.7%

Note that Historic Participation does not exist as these are new programs

Table IX-3: Total Cost

Residential Programs

The tables below indicate the total cost (by program) for administrative, incentive and marketing costs for the Residential Programs included in the Revised Goal, for years 2011 - 2019.

- Home Energy Check
- Home Energy Improvement
- Residential New Construction
- Neighborhood Energy Saver
- Low Income Weatherization Assistance
- Residential Energy Management
- Residential Lighting
- Residential Behavior Modification
- Residential Appliance Recycling

		Home Energy Ch	neck	The state of the s
	Total Cost	Admin	Incentives	Marketing
2011	\$13,802,290	\$8,809,624	\$846,960	\$4,145,706
2012	\$14,399,836	\$9,154,319	\$937,602	\$4,307,915
2013	\$14,841,383	\$9,407,725	\$1,006,494	\$4,427,164
2014	\$15,286,837	\$9,663,101	\$1,076,394	\$4,547,342
2015	\$15,762,607	\$9,938,331	\$1,147,414	\$4,676,862
2016	\$16,244,843	\$10,217,124	\$1,219,661	\$4,808,058
2017	\$16,754,468	\$10,513,690	\$1,293,159	\$4,947,619
2018	\$17,271,525	\$10,814,321	\$1,368,112	\$5,089,092
2019	\$17,796,315	\$11,119,221	\$1,444,519	\$5,232,575

	Home Energy Improvement					
	Total Cost	Admin	Incentives	Marketing		
2011	\$10,591,826	\$3,281,644	\$5,765,879	\$1,544,303		
2012	\$12,292,292	\$3,926,419	\$6,518,147	\$1,847,726		
2013	\$14,287,739	\$4,030,004	\$8,361,263	\$1,896,473		
2014	\$18,530,852	\$4,708,958	\$11,605,914	\$2,215,980		
2015	\$20,206,351	\$5,249,663	\$12,486,258	\$2,470,430		
2016	\$21,671,335	\$5,693,933	\$13,297,905	\$2,679,498		
2017	\$18,582,548	\$4,940,788	\$11,316,683	\$2,325,077		
2018	\$19,013,745	\$5,076,308	\$11,548,586	\$2,388,851		
2019	\$20,108,832	\$5,420,052	\$12,138,167	\$2,550,613		

		Residential New Con	struction	
	Total Cost	Admin	Incentives	Marketing
2011	\$2,142,916	\$1,020,877	\$1,033,267	\$88,772
2012	\$1,953,228	\$874,901	\$1,002,249	\$76,078
2013	\$2,567,456	\$941,166	\$1,544,450	\$81,840
2014	\$3,528,788	\$1,200,874	\$2,223,490	\$104,424
2015	\$3,698,671	\$1,280,193	\$2,307,157	\$111,321
2016	\$4,056,510	\$1,437,571	\$2,493,932	\$125,006
2017	\$3,755,837	\$1,394,349	\$2,240,240	\$121,248
2018	\$3,295,740	\$1,235,176	\$1,953,158	\$107,407
2019	\$3,302,225	\$1,226,836	\$1,968,708	\$106,681

		Neighborhood Energ	gy Saver	
	Total Cost	Admin	Incentives	Marketing
2011	\$3,536,330	\$1,011,516	\$2,460,249	\$64,565
2012	\$3,789,062	\$1,090,157	\$2,629,321	\$69,584
2013	\$4,106,923	\$1,188,114	\$2,842,972	\$75,837
2014	\$4,376,269	\$1,272,525	\$3,022,519	\$81,225
2015	\$3,285,361	\$961,620	\$2,262,361	\$61,380
2016	\$3,341,350	\$990,055	\$2,288,100	\$63,195
2017	\$3,171,416	\$1,018,490	\$2,087,916	\$65,010
2018	\$3,065,221	\$1,049,510	\$1,948,721	\$66,990
2019	\$3,040,805	\$1,080,530	\$1,891,305	\$68,970

_	Total Cost	Admin	Incentives	Marketing
2011	\$594,316	\$215,847	\$346,216	\$32,253
2012	\$551,555	\$183,193	\$340,988	\$27,374
2013	\$467,751	\$139,798	\$307,064	\$20,889
2014	\$483,652	\$151,258	\$309,791	\$22,602
2015	\$530,533	\$163,490	\$342,613	\$24,430
2016	\$557,935	\$176,488	\$355,076	\$26,372
2017	\$600,689	\$190,319	\$381,932	\$28,438
2018	\$648,404	\$205,037	\$412,730	\$30,638
2019	\$712,439	\$220,696	\$458,765	\$32,978

		Residential Energy Ma	anagement	
	Total Cost	Admin	Incentives	Marketing
2011	\$33,475,651	\$11,839,545	\$20,770,000	\$866,105
2012	\$39,130,400	\$17,087,316	\$21,155,001	\$888,083
2013	\$70,440,081	\$47,976,761	\$21,540,002	\$923,318
2014	\$105,832,766	\$82,946,707	\$21,925,003	\$961,056
2015	\$136,046,502	\$113,085,327	\$21,974,500	\$986,675
2016	\$129,805,898	\$106,120,903	\$22,672,000	\$1,012,995
2017	\$124,973,965	\$100,564,987	\$23,369,500	\$1,039,479
2018	\$109,573,901	\$84,451,121	\$24,067,000	\$1,055,779
2019	\$94,969,990	\$69,135,391	\$24,764,500	\$1,070,100

	Residential Lighting				
317	Total Cost	Admin	Incentives	Marketing	
2011	\$1,764,000	\$403,200	\$1,204,000	\$156,800	
2012	\$1,942,500	\$453,600	\$1,312,500	\$176,400	
2013	\$2,445,000	\$432,000	\$1,845,000	\$168,000	
2014	\$2,287,500	\$396,000	\$1,737,500	\$154,000	
2015	\$2,725,000	\$432,000	\$2,125,000	\$168,000	
2016	\$3,162,500	\$468,000	\$2,512,500	\$182,000	
2017	\$2,880,000	\$403,200	\$2,320,000	\$156,800	
2018	\$3,350,000	\$432,000	\$2,750,000	\$168,000	
2019	\$3,390,000	\$460,800	\$2,750,000	\$179,200	

	Total Cost	Admin	Incentives	Marketing
2011	\$1,399,443	\$498,869	\$775,857	\$124,717
2012	\$2,182,950	\$784,980	\$1,201,725	\$196,245
2013	\$2,268,525	\$822,480	\$1,240,425	\$205,620
2014	\$2,340,208	\$855,076	\$1,271,363	\$213,769
2015	\$2,444,175	\$899,640	\$1,319,625	\$224,910
2016	\$2,550,600	\$945,360	\$1,368,900	\$236,340
2017	\$2,659,275	\$992,160	\$1,419,075	\$248,040
2018	\$2,753,100	\$1,033,620	\$1,461,075	\$258,405
2019	\$2,860,650	\$1,085,580	\$1,503,675	\$271,395

	Total Cost	Admin	Incentives	Marketing
2011	\$850,000	\$824,500	\$0	\$25,500
2012	\$900,000	\$873,000	\$0	\$27,000
2013	\$950,000	\$921,500	\$0	\$28,500
2014	\$1,000,000	\$970,000	\$0	\$30,000
2015	\$1,050,000	\$1,018,500	\$0	\$31,500
2016	\$1,100,000	\$1,067,000	\$0	\$33,000
2017	\$1,150,000	\$1,115,500	\$0	\$34,500
2018	\$1,200,000	\$1,164,000	\$0	\$36,000
2019	\$1,250,000	\$1,212,500	\$0	\$37,500

Commercial Programs

The tables below indicate the total cost (by program) for administrative, incentive and marketing costs for the Commercial Programs included in the Revised Goal, for years 2011 - 2019.

- Business Energy Check
- Better Business
- Commercial/Industrial New Construction
- Business Energy Saver
- Commercial Green Building New Construction
- Innovation Incentive
- Standby Generation
- Interruptible Service
- Curtailable Service
- Business Energy Response

	Business Energy Check					
	Total Cost	Admin	Incentives	Marketing		
2011	\$3,829,500	\$3,388,500	\$64,500	\$376,500		
2012	\$4,073,175	\$3,604,905	\$67,725	\$400,545		
2013	\$4,363,748	\$3,863,518	\$70,950	\$429,280		
2014	\$4,712,220	\$4,168,665	\$80,370	\$463,185		
2015	\$4,970,934	\$4,418,558	\$61,425	\$490,951		
2016	\$5,333,028	\$4,743,835	\$62,100	\$527,093		
2017	\$5,617,710	\$5,001,507	\$60,480	\$555,723		
2018	\$5,926,236	\$5,277,182	\$62,700	\$586,354		
2019	\$6,148,760	\$5,477,454	\$62,700	\$608,606		

	Better Business					
	Total Cost	Admin	Incentives	Marketing		
2011	\$12,362,207	\$6,071,375	\$5,616,235	\$674,597		
2012	\$12,048,777	\$6,042,124	\$5,335,305	\$671,347		
2013	\$14,395,751	\$6,753,300	\$6,892,084	\$750,367		
2014	\$17,226,403	\$7,352,257	\$9,057,228	\$816,917		
2015	\$13,956,666	\$5,980,672	\$7,311,476	\$664,519		
2016	\$12,297,689	\$5,294,866	\$6,414,504	\$588,318		
2017	\$8,426,128	\$3,642,450	\$4,378,961	\$404,717		
2018	\$7,984,476	\$3,469,195	\$4,129,814	\$385,466		
2019	\$7,556,488	\$3,296,788	\$3,893,391	\$366,310		

	Commercial/Industrial New Construction					
	Total Cost	Admin	Incentives	Marketing		
2011	\$1,398,474	\$572,137	\$762,766	\$63,571		
2012	\$1,319,655	\$541,854	\$717,595	\$60,206		
2013	\$1,875,861	\$684,490	\$1,115,317	\$76,054		
2014	\$2,327,569	\$752,434	\$1,491,531	\$83,604		
2015	\$1,939,907	\$626,093	\$1,244,248	\$69,566		
2016	\$1,824,611	\$587,201	\$1,172,166	\$65,245		
2017	\$1,943,909	\$612,452	\$1,263,407	\$68,050		
2018	\$1,859,158	\$585,098	\$1,209,049	\$65,011		
2019	\$1,876,529	\$587,851	\$1,223,361	\$65,317		

	Business Energy Saver					
	Total Cost	Admin	Incentives	Marketing		
2011	\$107,600	\$38,813	\$64,475	\$4,313		
2012	\$134,076	\$48,438	\$80,256	\$5,382		
2013	\$139,032	\$50,301	\$83,142	\$5,589		
2014	\$144,012	\$52,164	\$86,052	\$5,796		
2015	\$148,992	\$54,027	\$88,962	\$6,003		
2016	\$153,972	\$55,890	\$91,872	\$6,210		
2017	\$158,952	\$57,753	\$94,782	\$6,417		
2018	\$164,052	\$59,616	\$97,812	\$6,624		
2019	\$169,272	\$61,479	\$100,962	\$6,831		

	Commercial Green Building				
	Total Cost	Admin	Incentives	Marketing	
2011	\$435,050	\$99,225	\$324,800	\$11,025	
2012	\$701,120	\$163,296	\$519,680	\$18,144	
2013	\$882,840	\$209,916	\$649,600	\$23,324	
2014	\$1,010,286	\$245,273	\$737,760	\$27,253	
2015	\$1,030,722	\$255,314	\$747,040	\$28,368	
2016	\$938,766	\$237,281	\$675,120	\$26,365	
2017	\$1,001,616	\$258,350	\$714,560	\$28,706	
2018	\$963,732	\$253,487	\$682,080	\$28,165	
2019	\$1,087,345	\$291,659	\$763,280	\$32,407	

	Innovation Incentive					
11 11 11 11	Total Cost	Admin	Incentives	Marketing		
2011	\$232,197	\$227,553	\$0	\$4,644		
2012	\$237,422	\$232,674	\$0	\$4,748		
2013	\$246,919	\$241,981	\$0	\$4,938		
2014	\$256,796	\$251,660	\$0	\$5,136		
2015	\$267,067	\$261,726	\$0	\$5,341		
2016	\$280,421	\$274,813	\$0	\$5,608		
2017	\$294,442	\$288,553	\$0	\$5,889		
2018	\$312,108	\$305,866	\$0	\$6,242		
2019	\$330,835	\$324,218	\$0	\$6,617		

	Standby Generation Service					
	Total Cost	Admin	Incentives	Marketing		
2011	\$2,988,000	\$813,000	\$2,170,000	\$5,000		
2012	\$3,006,405	\$831,405	\$2,170,000	\$5,000		
2013	\$3,025,224	\$850,224	\$2,170,000	\$5,000		
2014	\$3,044,466	\$869,466	\$2,170,000	\$5,000		
2015	\$3,044,467	\$869,467	\$2,170,000	\$5,000		
2016	\$3,064,142	\$889,142	\$2,170,000	\$5,000		
2017	\$3,084,260	\$909,260	\$2,170,000	\$5,000		
2018	\$3,104,831	\$929,831	\$2,170,000	\$5,000		
2019	\$3,125,865	\$950,865	\$2,170,000	\$5,000		

e in the sale	Interruptible Service					
AND COMPANIES	Total Cost	Admin	Incentives	Marketing		
2011	\$19,239,525	\$1,112,525	\$18,125,000	\$2,000		
2012	\$19,264,602	\$1,137,602	\$18,125,000	\$2,000		
2013	\$19,290,243	\$1,163,243	\$18,125,000	\$2,000		
2014	\$19,316,460	\$1,189,460	\$18,125,000	\$2,000		
2015	\$19,316,461	\$1,189,461	\$18,125,000	\$2,000		
2016	\$19,343,269	\$1,216,269	\$18,125,000	\$2,000		
2017	\$19,370,680	\$1,243,680	\$18,125,000	\$2,000		
2018	\$19,398,708	\$1,271,708	\$18,125,000	\$2,000		
2019	\$19,427,366	\$1,300,366	\$18,125,000	\$2,000		

	Curtailable Service				
3 13-132 1-37	Total Cost	Admin	Incentives	Marketing	
2011	\$842,025	\$90,025	\$750,000	\$2,000	
2012	\$844,096	\$92,096	\$750,000	\$2,000	
2013	\$846,213	\$94,213	\$750,000	\$2,000	
2014	\$848,377	\$96,377	\$750,000	\$2,000	
2015	\$848,377	\$96,377	\$750,000	\$2,000	
2016	\$850,591	\$98,591	\$750,000	\$2,000	
2017	\$852,854	\$100,854	\$750,000	\$2,000	
2018	\$855,169	\$103,169	\$750,000	\$2,000	
2019	\$857,535	\$105,535	\$750,000	\$2,000	

X. TARIFF REVISION

Exhibit A Legislative Copy Format Tariffs

Eight Revised Tariff Sheet No. 2.0

Fourth Revised Tariff Sheet No. 2.6

Twenty-first Revised Tariff Sheet No. 6.100

Second Revised Tariff Sheet no. 6.226

Original Tariff Sheet No. 6.228

Original Tariff Sheet No. 6.229



MISCELLANEOUS INDEX

DESCRIPTION	SHEET NO.
Home Energy Check-up	2.3
Non-Residential Energy Audit	2.4
Florida Energy Gauge Ratings	2.6
Load Energy Profiler Online	2.7
Remote Access	2.8

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning-Florida Mark A. Myers, Vice President, Finance EFFECTIVE: April 12, 2004



Florida Energy Gauge Ratings Energy Gauge

Availability:

Available throughout the entire territory served by the Company.

Applicable:

To residential customers with single family homes (mobile, manufactured homes excluded). Upon request a state certified Home Energy Rating System (HERS) rater will perform an on-site energy inspection on an existing home and provide a rating certificate. New homes with completed Florida Energy Code Whole Building Performance Method A will-requires a review of code calculations to be eligible for a rating certificate.

Schedule of Fees:

The following fees are based on a home equal to or less than 1,850 air conditioned square feet and one (1) air handler.

Rating	* New Home	* New Home (With Energy Code Compliance Form Provided)	* Existing Home
Class I On-Site_1	\$ <u>550</u> 195	N/A	\$ <u>550</u> 195
Class II On-Site_2	\$ <u>315</u> 145	N/A	\$ <u>315</u> 145
Class III From Plans_2	\$1 <u>2</u> 40	\$35	N/A

^{*} Includes electronic registration fees charged by the State of Florida.

Definitions:

Existing home: is a completed residential occupancy building for which a certificate of occupancy or equivalent approval for occupancy, has been issued.

Florida Energy Code Whole Building Performance Method A: Required by the State listing building components, dimensions and system efficiencies.

Energy Gauge Ratings are Categorized in Three Classes:

Class I: Energy rating requiring an on-site energy audit with specialized performance testing for air infiltration and duct leakage. Class I ratings have the highest level of confidence.

Class II: Energy rating requiring an on-site energy audit. Class II ratings have a good level of confidence.

Class III: Energy rating reserved for new buildings only and uses construction plans to generate data for ratings. Class III ratings have a fair level of confidence.

Terms of Payment:

The fee shall be payable at the time the rating is completed and delivered. The Company reserves the right to withhold the rating certificate until the fee is paid.

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning- Florida Mark A. Myers, Vice President, Finance

EFFECTIVE: December 23, 2003

A \$35 fee will be added for each additional air handler.

For homes with greater than 1,850 square feet of air conditioned space, an additional \$0.09 per square foot will be added.



SECTION NO. VI TWENTY-FIRSTIETH REVISED SHEET NO. 6.100 CANCELS TWENTIETHNINETEENTH REVISED SHEET

NO 6 100

	INDEX OF RATE SCHEDULES	*
FPSC UNIFORM RATE SCHEDULE DESIGNATION		BEGINS ON SHEET NO.
BA-1	Billing Adjustments	6.105
SC-1	Service Charges	6.110
RS-1	Residential Service	6.120
RSL-1	Residential - Load Management (Optional)	6.130
RSL-2	Residential - Load Management - Winter Only - (Optional)	6.135
RST-1	Residential Service (Optional Time of Use) (Closed to New Customers as of 02/10/10)	6.140
GS-1	General Service - Non-Demand	6.150
GST-1	General Service - Non-Demand (Optional Time of Use)	6.160
GS-2	General Service - Non-Demand (100% Load Factor Usage)	6.165
GSD-1	General Service - Demand	6.170
GSDT-1	General Service - Demand (Optional Time of Use)	6.180
GSLM-1	General Service - Load Management (Optional)	6.220
GSLM-2	General Service - Load Management - Standby Generation	6.225
GSDR-1	General Service Demand Response	6.228
CS-1	Curtailable General Service (Closed to New Customers as of 04/16/96)	6.230
CS-2	Curtailable General Service	6.235
CS-3	Curtailable General Service Fixed Curtailable Demand	6.2390
CST-1	Curtailable General Service (Optional Time of Use) (Closed to New Customers as of 04/16/96)	6.240
CST-2	Curtailable General Service (Optional Time of Use)	6.245
CST-3	Curtailable General Service (Optional Time of Use) Fixed Curtailable Demand	6.2490
IS-1	Interruptible General Service (Closed to New Customers as of 04/16/96)	6.250
IS-2	Interruptible General Service	6.255
IST-1	Interruptible General Service (Optional Time of Use) (Closed to New Customers as of 04/16/96)	6.260
IST-2	Interruptible General Service (Optional Time of Use)	6.265
LS-1	Lighting Service	6.280
SS-1	Firm Standby Service	6.310
SS-2	Interruptible Standby Service	6.315
SS-3	Curtailable Standby Service	6.320
TS-1	Temporary Service	6.330
RSS-1	Residential Seasonal Service Rider	6.350
CISR-1	Commercial/Industrial Service Rider	6.360
PPS-1	General Service – Premier Power Service Rider	6.370

ISSUED BY: Lori J. Cross, Manager, Uitility Regulatory Planning - Florida

EFFECTIVE: February 10, 2010

SECTION NO. VI <u>SECOND</u>FIRST REVISED SHEET NO. 6.226 CANCELS FIRST REVISEDORIGINAL SHEET NO.

0.220

Page 2 of 2

RATE SCHEDULE GSLM-2 GENERAL SERVICE LOAD MANAGEMENT – STANDBY GENERATION (Continued from Page No. 1)

Schedules:

Requests by the Company for the customer to reduce facility demand by operation of the standby generation can occur at any time during the day. The GSLM-2 will not be operated more than twice each day with the total operation not exceeding twelve (12) hours. Under extreme emergency conditions, the Company may request the Customer to voluntarily operate their standby generation for longer than twelve (12) hours a day.

Term of Service:

Service under this rate schedule shall be for a minimum initial term of twelve (12) months from completion of Company acceptance testing of customer's equipment and shall continue thereafter until terminated by either party by written notice sixty (60) days prior to termination.

Special Provisions:

- The Company shall be allowed reasonable access to the customer's premises to install, maintain, inspect, test and remove the
 equipment associated with this rate.
- 2. Prior to the installation of the equipment, the Company may inspect the customer's electrical equipment (including standby generator) to ensure good repair and working condition, but the Company shall not be responsible for the repair or maintenance of the electrical equipment (including standby generator). The Company may, at its option, require a commercial energy audit as a prerequisite to receiving service under this rate. The audit may be used to establish or confirm equipment capacity, operating hours, or to determine the ability of the Company to control electric demand.
- If the Company determines that the equipment installed as part of this rate by the Company has been tampered with, the Company may discontinue service under this rate and bill the customer for prior credits received under this rate for that fiscal year.
- 4. Customers taking service under this Standby Generation rate schedule who desire to transfer to a firm rate schedule after the initial term of service will be required to provide the Company with written notice at least 12 months prior to such transfer. Such notice shall be irrevocable unless the Company and the customer agree to void the notice.
- 5. The Company reserves the right, at its option, to remove Customers from this rate who, during any consecutive 12 month period, do not participate in at least 75% of Company requests to reduce their demand by operation of their standby generation equipment.

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning - Florida Mark A. Myers, Vice President, Finance

EFFECTIVE: October 1, 2003



Page 1 of 2

RATE SCHEDULE GSDR-1 GENERAL SERVICE DEMAND RESPONSE

Availability:

Available only within the range of the Company's two-way communications capability to the "smart" billing meter.

Applicable:

To customers who are eligible for service under Rate Schedules GS, GST-1, GSD-1, or GSDT-1 who have qualified equipment that will allow for a demand reduction during a Company Control Event. The customer must have a Business Energy Check that pre-qualifies and identifies the tons of air-conditioning (A/C) eligible for Direct Load Control (DLC) or the subscribed demand reduction kW by customer's Energy Management System (EMS) under this rate schedule. Customers cannot be on this rate schedule and also the General Service Load Management (GSLM-1) or General Service Load Management – Standby Generation (GSLM-2) rate schedule.

Limitation of Service:

Load control of the customer's equipment will occur at the Company's request or by the Company if the equipment is directly connected to the Company's two-way demand response system.

Standby or resale service not permitted hereunder. Service under this rate is subject to the Company's currently effective and filed "General Rules and Regulations for Electric Service."

Rate Per Company Control Event:

The rates and all other terms and conditions of Company rate schedules GS, GST-1, GSD-1 or GSDT-1 (whichever shall otherwise be applicable) shall be applicable to service under this rate schedule, subject to the following:

GSDR-1 CRITICAL PEAK REBATE AMOUNT

Rebate (Credit)

\$1.20 per Ton of air conditioning load reduced per Control Event
OR

\$2.86 per kW reduced per Control Event (EMS customers only)

April through October

The customer's Critical Peak Rebate (CPR) per Company Control Event will be a calculated value based upon the following formulas depending on the type of participation and will only be credited for actual participation in a Company Control Event:

Direct Load Control Switch:

CPR = (Tons of A/C load confirmed during Business Energy Check) times \$1.20

Interconnection to Existing Energy Management System:

CPR = Average demand reduction kW times \$2.86, where

- Average demand reduction kW = control baseline kW actual average kW demand during the Company Control Event period, where
 - Control baseline kW = the average kW demand from the most recent prior three non-control days during hours corresponding to the Company Control Event period.
- Customer must submit a subscribed demand reduction kW. The subscribed demand reduction kW = the kW reduction that will be achieved by customer's EMS control during a Company Control Event period.
- The subscribed demand reduction kW must be at least 20 kW and at least 10% of the customer's average monthly peak demand.
- Actual average kW demand during Company Control Event period = average kW measured during the Company Control Event period. (minimum of 50% and maximum of 150% of the subscribed demand reduction kW).
- Upon Company notification, the customer will be given 15 minutes to initiate demand reduction of 50% to 150% of subscribed demand reduction kW to qualify for CPR.

*Non-Control days exclude weekend days and observed holidays as defined in the otherwise applicable rate.

Definitions:

CPR = Critical Peak Rebate (credit) amount provided to the customer each time they participate in a Company Control Event.

Tons of

A/C Load = Actual connected tons of air conditioning controlled by the DLC switch.



Page 2 of 2

RATE SCHEDULE GSDR-1 GENERAL SERVICE DEMAND RESPONSE (Continued from Page No. 1)

DLC = Direct Load Control of the customer's air conditioning system using 50% duty cycle for a minimum of 2 consecutive hours during a load control event using a Company supplied control switch. Total operation not to exceed 12 hours per day.

EMS = Energy Management System owned by the customer that reduces a subscribed demand reduction kW during a 2-hour Company Control Event time frame. EMS notification of a Company Control Event can be manual or automatic.

Company

Control Event= Any request by the Company to reduce customer's kW usage as defined by this tariff whether notified electronically, manually, or otherwise.

Schedules:

Requests by the Company for the customer to reduce facility demand by operation of the DLC or EMS equipment can occur at any time during the day. The GSDR will not be operated more than twice each day. Under extreme emergency conditions, the Company may request DLC Customers to voluntarily participate for longer than twelve (12) hours a day.

Special Provisions:

- The Company shall be allowed reasonable access to the customer's premises to install, maintain, inspect, test and remove the equipment associated with this rate.
- 2. Prior to the installation of the equipment, the Company may inspect the customer's electrical equipment to ensure good repair and working condition, but the Company shall not be responsible for the repair or maintenance of the electrical equipment (including Air Conditioning System). The Company may, at its option, require a commercial energy audit as a prerequisite to receiving service under this rate. The audit may be used to establish or confirm equipment capacity, operating hours, or to determine the ability of the Company to control electric demand.
- If the Company determines that the equipment installed as part of this rate by the Company has been tampered with, the Company may discontinue service under this rate and bill the customer for prior credits received under this rate for the previous twelve (12) months.
- 4. If the customer does not participate in three or more Company Control Event periods during the months of April through October during any year, the Company shall be allowed to remove the equipment and/or terminate service under this rate schedule.
- 5. The Company may initiate a minimum of three Company Control Event periods during the months of April through October of each year,

Exhibit B Clean Copy Format Tariffs

Eight Revised Tariff Sheet No. 2.0

Fourth Revised Tariff Sheet No. 2.6

Twenty-First Revised Tariff Sheet No. 6.100

Second Revised Tariff Sheet No. 6.226

Original Tariff Sheet No. 6.228

Original Tariff Sheet No. 6.229



MISCELLANEOUS INDEX

DESCRIPTION	SHEET NO.
Home Energy Check-up	2.3
Non-Residential Energy Audit	2.4
Florida Energy Gauge Ratings	2.6
Load Profiler Online	2.7
Remote Access	2.8

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning - Florida EFFECTIVE:



Florida Energy Gauge Ratings Energy Gauge

Availability:

Available throughout the entire territory served by the Company.

Applicable:

To residential customers with single family homes (mobile, manufactured homes excluded). Upon request a state certified Home Energy Rating System (HERS) rater will perform an on-site energy inspection on an existing home and provide a rating certificate. New homes with completed Florida Energy Code Whole Building Performance Method A will require a review of code calculations to be eligible for a rating certificate.

Schedule of Fees:

The following fees are based on a home equal to or less than 1,850 air conditioned square feet and one (1) air handler.

Rating	* New Home	* Existing Home
Class I On-Site 1	\$550	\$550
Class II On-Site 2	\$315	\$315
Class III From Plans 2	\$120	N/A

- * Includes electronic registration fees charged by the State of Florida.
- A \$35 fee will be added for each additional air handler.
- For homes with greater than 1,850 square feet of air conditioned space, an additional \$0.09 per square foot will be added.

Definitions:

Existing home: is a completed residential occupancy building for which a certificate of occupancy or equivalent approval for occupancy, has been issued.

Florida Energy Code Whole Building Performance Method A: efficiencies.

Required by the State listing building components, dimensions and system

Energy Gauge Ratings are Categorized in Three Classes:

Class I: Energy rating requiring an on-site energy audit with specialized performance testing for air infiltration and duct leakage. Class I ratings have the highest level of confidence.

Class II: Energy rating requiring an on-site energy audit. Class II ratings have a good level of confidence.

Class III: Energy rating reserved for new buildings only and uses construction plans to generate data for ratings. Class III ratings have a fair level of confidence.

Terms of Payment:

The fee shall be payable at the time the rating is completed. The Company reserves the right to withhold the rating certificate until the fee is paid.

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning - Florida



SECTION NO. VI TWENTY-FIRST REVISED SHEET NO. 6.100 CANCELS TWENTIETH REVISED SHEET NO. 6.100

	INDEX OF RATE SCHEDULES	Page 1 of
FPSC UNIFORM RATE SCHEDULE		BEGINS ON
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BA-1	Billing Adjustments	6.105
SC-1	Service Charges	6.110
RS-1	Residential Service	6.120
RSL-1	Residential - Load Management (Optional)	6.130
RSL-2	Residential - Load Management - Winter Only - (Optional)	6.135
RST-1	Residential Service (Optional Time of Use) (Closed to New Customers as of 02/10/10)	6.140
GS-1	General Service - Non-Demand	6.150
GST-1	General Service - Non-Demand (Optional Time of Use)	6.160
GS-2	General Service - Non-Demand (100% Load Factor Usage)	6.165
GSD-1	General Service - Demand	6.170
GSDT-1	General Service - Demand (Optional Time of Use)	6.180
GSLM-1	General Service - Load Management (Optional)	6.220
GSLM-2	General Service - Load Management - Standby Generation	6.225
GSDR-1	General Service Demand Response	6.228
CS-1	Curtailable General Service (Closed to New Customers as of 04/16/96)	6.230
CS-2	Curtailable General Service	6.235
CS-3	Curtailable General Service Fixed Curtailable Demand	6.2390
CST-1	Curtailable General Service (Optional Time of Use) (Closed to New Customers as of 04/16/96)	6.240
CST-2	Curtailable General Service (Optional Time of Use)	6.245
CST-3	Curtailable General Service (Optional Time of Use) Fixed Curtailable Demand	6.2490
IS-1	Interruptible General Service (Closed to New Customers as of 04/16/96)	6.250
IS-2	Interruptible General Service	6.255
IST-1	Interruptible General Service (Optional Time of Use) (Closed to New Customers as of 04/16/96)	6.260
IST-2	Interruptible General Service (Optional Time of Use)	6.265
LS-1	Lighting Service	6.280
SS-1	Firm Standby Service	6.310
SS-2	Interruptible Standby Service	6.315
SS-3	Curtailable Standby Service	6.320
TS-1	Temporary Service	6.330
RSS-1	Residential Seasonal Service Rider	6.350
CISR-1	Commercial/Industrial Service Rider	6.360
PPS-1	General Service - Premier Power Service Rider	6.370

ISSUED BY: Lori J. Cross, Manager, Uitility Regulatory Planning - Florida

SECTION NO. VI SECOND REVISED SHEET NO. 6.226 CANCELS FIRST REVISED SHEET NO. 6.226

Page 2 of 2

RATE SCHEDULE GSLM-2 GENERAL SERVICE LOAD MANAGEMENT – STANDBY GENERATION (Continued from Page No. 1)

Schedules:

Requests by the Company for the customer to reduce facility demand by operation of the standby generation can occur at any time during the day. The GSLM-2 will not be operated more than twice each day with the total operation not exceeding twelve (12) hours. Under extreme emergency conditions, the Company may request the Customer to voluntarily operate their standby generation for longer than twelve (12) hours a day.

Term of Service:

Service under this rate schedule shall be for a minimum initial term of twelve (12) months from completion of Company acceptance testing of customer's equipment and shall continue thereafter until terminated by either party by written notice sixty (60) days prior to termination.

Special Provisions:

- The Company shall be allowed reasonable access to the customer's premises to install, maintain, inspect, test and remove the
 equipment associated with this rate.
- 2. Prior to the installation of the equipment, the Company may inspect the customer's electrical equipment (including standby generator) to ensure good repair and working condition, but the Company shall not be responsible for the repair or maintenance of the electrical equipment (including standby generator). The Company may, at its option, require a commercial energy audit as a prerequisite to receiving service under this rate. The audit may be used to establish or confirm equipment capacity, operating hours, or to determine the ability of the Company to control electric demand.
- If the Company determines that the equipment installed as part of this rate by the Company has been tampered with, the Company may discontinue service under this rate and bill the customer for prior credits received under this rate for that fiscal year.
- 4. Customers taking service under this Standby Generation rate schedule who desire to transfer to a firm rate schedule after the initial term of service will be required to provide the Company with written notice at least 12 months prior to such transfer. Such notice shall be irrevocable unless the Company and the customer agree to void the notice.
- 5. The Company reserves the right, at its option, to remove Customers from this rate who, during any consecutive 12 month period, do not participate in at least 75% of Company requests to reduce their demand by operation of their standby generation equipment.

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning - Florida



Page 1 of 2

RATE SCHEDULE GSDR-1 GENERAL SERVICE DEMAND RESPONSE

Availability:

Available only within the range of the Company's two-way communications capability to the "smart" billing meter.

Applicable:

To customers who are eligible for service under Rate Schedules GS, GST-1, GSD-1, or GSDT-1 who have qualified equipment that will allow for a demand reduction during a Company Control Event. The customer must have a Business Energy Check that pre-qualifies and identifies the tons of air-conditioning (A/C) eligible for Direct Load Control (DLC) or the subscribed demand reduction kW by customer's Energy Management System (EMS) under this rate schedule. Customers cannot be on this rate schedule and also the General Service Load Management (GSLM-1) or General Service Load Management – Standby Generation (GSLM-2) rate schedule.

Limitation of Service:

Load control of the customer's equipment will occur at the Company's request or by the Company if the equipment is directly connected to the Company's two-way demand response system.

Standby or resale service not permitted hereunder. Service under this rate is subject to the Company's currently effective and filed "General Rules and Regulations for Electric Service."

Rate Per Company Control Event:

The rates and all other terms and conditions of Company rate schedules GS, GST-1, GSD-1 or GSDT-1 (whichever shall otherwise be applicable) shall be applicable to service under this rate schedule, subject to the following:

GSDR-1 CRITICAL PEAK REBATE AMOUNT

Rebate (Credit)

Time Period Rate Effective

\$1.20 per Ton of air conditioning load reduced per Control Event
OR

April through October

\$2.86 per kW reduced per Control Event (EMS customers only)

April through October

The customer's Critical Peak Rebate (CPR) per Company Control Event will be a calculated value based upon the following formulas depending on the type of participation and will only be credited for actual participation in a Company Control Event:

Direct Load Control Switch:

CPR = (Tons of A/C load confirmed during Business Energy Check) times \$1.20

Interconnection to Existing Energy Management System:

CPR = Average demand reduction kW times \$2.86, where

- Average demand reduction kW = control baseline kW actual average kW demand during the Company Control Event period, where
 - Control baseline kW = the average kW demand from the most recent prior three non-control days during hours corresponding to the Company Control Event period.
- Customer must submit a subscribed demand reduction kW. The subscribed demand reduction kW = the kW reduction that will be achieved by customer's EMS control during a Company Control Event period.
- The subscribed demand reduction kW must be at least 20 kW and at least 10% of the customer's average monthly peak demand.
- Actual average kW demand during Company Control Event period = average kW measured during the Company Control Event period. (minimum of 50% and maximum of 150% of the subscribed demand reduction kW).
- Upon Company notification, the customer will be given 15 minutes to initiate demand reduction of 50% to 150% of subscribed demand reduction kW to qualify for CPR.

*Non-Control days exclude weekend days and observed holidays as defined in the otherwise applicable rate.

Definitions:

CPR =

Critical Peak Rebate (credit) amount provided to the customer each time they participate in a Company Control Event.

Tons of

A/C Load =

Actual connected tons of air conditioning controlled by the DLC switch.

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning - Florida EFFECTIVE:

SECTION NO. VI **ORIGINAL SHEET NO. 6.229**

Page 2 of 2

RATE SCHEDULE GSDR-1 GENERAL SERVICE DEMAND RESPONSE

(Continued from Page No. 1)

DLC =

Direct Load Control of the customer's air conditioning system using 50% duty cycle for a minimum of 2 consecutive hours during a load control event using a Company supplied control switch. Total operation not to exceed 12 hours per day.

EMS =

Energy Management System owned by the customer that reduces a subscribed demand reduction kW during a 2-hour Company Control Event time frame. EMS notification of a Company Control Event can be manual or automatic.

Company

Control Event= Any request by the Company to reduce customer's kW usage as defined by this tariff whether notified electronically,

manually, or otherwise.

Schedules:

Requests by the Company for the customer to reduce facility demand by operation of the DLC or EMS equipment can occur at any time during the day. The GSDR will not be operated more than twice each day. Under extreme emergency conditions, the Company may request DLC Customers to voluntarily participate for longer than twelve (12) hours a day.

Special Provisions:

- 1. The Company shall be allowed reasonable access to the customer's premises to install, maintain, inspect, test and remove the equipment associated with this rate.
- 2. Prior to the installation of the equipment, the Company may inspect the customer's electrical equipment to ensure good repair and working condition, but the Company shall not be responsible for the repair or maintenance of the electrical equipment (including Air Conditioning System). The Company may, at its option, require a commercial energy audit as a prerequisite to receiving service under this rate. The audit may be used to establish or confirm equipment capacity, operating hours, or to determine the ability of the Company to control electric demand.
- 3. If the Company determines that the equipment installed as part of this rate by the Company has been tampered with, the Company may discontinue service under this rate and bill the customer for prior credits received under this rate for the previous twelve (12) months.
- 4. If the customer does not participate in three or more Company Control Event periods during the months of April through October during any year, the Company shall be allowed to remove the equipment and/or terminate service under this rate schedule.
- 5. The Company may initiate a minimum of three Company Control Event periods during the months of April through October of each year.

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning - Florida

PROPOSED 2010 "ORIGINAL GOAL SCENARIO" DEMAND SIDE MANAGEMENT PROGRAM PLAN

09616 NOV 29 9

FPSC-COMMISSION CLERK

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I. INTRODUCTION

In accordance with Sections 25-17.001 through 25-17.003, Florida Administrative Code, the Florida Public Service Commission (the "Commission") requested numeric conservation goals, testimony and a Demand Side Management (DSM) Program Plan for Progress Energy Florida ("Progress Energy" or "PEF") in Docket No. 080408-EG. On March 30, 2010, Progress Energy submitted a DSM Plan to meet the 2019 cumulative goals in Order No. PSC-09-0855-FOF-EG issued on December 30, 2009, which was later reduced for a double counting error by the Commission on March 31, 2010 in Order No. PSC-10-0198-FOF-EG. On October 4, 2010 the Commission denied Progress Energy's DSM Plan in Order No. PSC-10-0605-PAA-EG, based on the assertion that the submitted Plan met the aggregate or cumulative goal, but not the annual goals as prescribed by the Commission. An Agenda Conference was conducted on September 14, 2010, where PEF demonstrated the need for parity with other Florida utilities, given that its goal was 200-400% higher. As a result, the Commission ordered PEF to file specific program modifications or additions that meet the annual as well as aggregate or cumulative goals stated in Order No. PSC-10-0198-FOF-EG issued on March 31, 2010. Additionally, the Commission requested a revised goal scenario be filed, aiming at approximately 50% of the original Commission goal, a level that achieves closer parity with the other utilities. To meet this request, PEF has designed two distinct plans referred to herein as the "Original Goal Scenario" and a plan being separately filed referred to as the Revised Goal Plan. PEF is filing both plans, but for the reasons set forth below and as included in its filing letter accompanying both plans, the Commission should approve and implement the Revised Goal Plan. The Revised Goal Plan is the appropriate balance between rate impact and energy efficiency.

Given the current anticipated schedule for Commission consideration of these proposed plans, it will not be possible to realize savings impacts in 2010 associated with any new measures or programs included in the "Original Goal Scenario". Additionally, the anticipated schedule for receiving Commission authority to implement new or modified measures and programs will likely impact PEF's ability to meet 2011 goals as efforts to establish new programs, partnerships, infrastructure, etc. are further delayed.

The "Original Goal Scenario" is designed with the assumption that PEF would begin attempting to meet the Commission's annual distribution of goal achievement, beginning in year 2011. It also reflects PEF's solar pilot programs approved in Order No. PSC-10-0605-PAA-EG. In order to meet the Commission's directive with achieving both annual as well as cumulative goals, this "Original Goal Scenario" assumes that the difference between the 2010 goal stated in Order No. PSC-10-0198-FOF-EG and PEF's 2010 demand and energy achievements anticipated to be realized under its currently approved plan will be achieved over the remaining 9 years (2011 – 2019). This new cumulative goal is 16 times PEF's currently approved goal for 2011, and requires the maximization of incentive and participation levels in an attempt to meet the required impacts on both an annual and cumulative basis. Incentive levels have been capped at one hundred percent (100%) of the incremental measure cost pursuant to the Staff's recommendation issued in this proceeding. Finally, this Plan includes the Technical Potential program which was designed to achieve the technical potential, not achievable potential, of certain residential measures that have less than a two-year payback period. As stated in previous filings and agendas, the Commission should not approve this "Original Goal Scenario" for several reasons. First, this scenario will result in significant increases in rates for PEF's customers coupled with a significant chance that PEF would not be able to achieve the extraordinarily aggressive goals under this scenario. To illustrate, the residential rate impact in 2011 under the "Original Goal Scenario" is \$11.28 at 1,200 kWh/hour or a 350% increase over the currently approved ECCR rate in 2010 of \$3.24. In contrast, the rate impact for the same year in the Revised Goal Plan would be \$4.84. Second, this scenario will result in increased base rates for PEF's customers in future years and will provide for significant cross-subsidization between PEF's customers. Further, approval of this plan will most acutely impact PEF's lower income customers who will have both higher rates and the burden of subsidizing higher income customers who can afford to participate in more expensive programs under the plan. Finally, approval of this plan will continue to place PEF out of parity with its peer utilities by imposing a goal that is 200% to 400% higher than all other utilities in the state.

As a result, approval of this "Original Goal Scenario" will result in immediate and significant increases in rate impacts for customers.

In contrast, the Revised Goal Plan (being filed separately) is designed to be achievable, cost effective, and more in line with peer Florida utilities both in terms of energy savings and in cost to customers. While the Revised Goal Plan will result in a greater than 700% increase over PEF's currently approved goals it will minimize cross-subsidization and cost impacts to PEF's customers. This plan was designed to be consistent with the Achievable Potential for cost-effective measures under E-TRC, and incorporates certain measures from the previously mentioned Technical Potential program in a manner that is reasonable and cost effective.

This document is organized into ten sections:

- Section I provides an introduction of the "Original Goal Scenario" Demand Side
 Management (DSM) Program Plan
- Section II presents an Executive Summary of Progress Energy's proposed "Original Goal Scenario" DSM Plan, summarizing the goals and cumulative impacts of the proposed plan and includes the impacts of PEF's solar pilot programs previously approved in Order No. PSC-10-0605-PAA-EG
- Section III discusses general issues associated with demand-side management planning and implementation: including program operation, cost-effectiveness, program monitoring and evaluation, and cost-recovery
- Section IV presents Progress Energy's proposed Residential programs
- Section V presents Progress Energy's proposed Commercial/Industrial programs
- Section VI presents Progress Energy's Demand Side Renewable Portfolio
- Section VII presents Progress Energy's Technology Development program
- Section VIII presents Progress Energy's Qualifying Facilities program
- Section IX presents Staff Requested Tables
- Section X presents Progress Energy's Tariff Revisions.

Section IX referenced above has been developed in response to a request made by Staff in a letter dated October 28, 2010

II. EXECUTIVE SUMMARY

The "Original Goal Scenario" plan consists of seven residential programs, ten commercial and industrial (C/I) programs, and a demand side renewable portfolio consisting of six pilot programs approved on October 4, 2010 in Order No. PSC-10-0605-PAA-EG. Included in these programs and pilots are three focused on low-income families and one specifically focused on businesses located in low-income neighborhoods. Additionally, the "Original Goal Scenario" includes a technology research and development program and a qualifying (small power production or cogeneration) facilities program.

RESIDENTIAL PROGRAMS	COMMERCIAL/INDUSTRIAL PROGRAMS
Home Energy Check	Business Energy Check
Home Energy Improvement	Better Business
Residential New Construction	Commercial/Industrial New Construction
Neighborhood Energy Saver	Business Energy Saver
Low-Income Weatherization Assistance	Commercial Green Building New Construction
Residential Energy Management	Innovation Incentive
Technical Potential	Standby Generation
	Interruptible Service
	Curtailable Service
	Business Energy Response
Demand Side Renew	vable Portfolio ¹
Technology Dev	velopment
Qualifying Fa	acilities

¹ Previously approved in Order No. PSC-10-0605-PAA-EG

Summary of the Portfolio

The "Original Goal Scenario" represents the Company's best attempt at meeting the aggressive savings levels mandated by the PSC in its December 30, 2009 Order, reduced for a double counting error recognized and voted upon by the Commission on March 16, 2010. The implementation of these goals represents a greater than 16 times increase over the current approved goals and will have an immediate and significant customer rate impact.

Tables II-1 and II-2 present the demand and energy impacts assumed to be achieved by this "Original Goal Scenario" in order to meet the Commission-established goals for each year during the planning period 2011-2019, for the Residential and Commercial/Industrial sectors, respectively.

Table II-1

	Projected Summer De	emand Savings (MW)	Projected Winter De	mand Savings (MW)	Projected Annual Energy Savings (GWI	
Year	Incremental	Cumulative	Incremental	Cumulative	Incremental	Cumulative
2011	107.41	107.41	103.83	103.83	286.43	286.43
2012	108.00	215,41	107.49	211.32	295.48	581.91
2013	108.77	324.18	111.45	322.76	301.51	883.42
2014	108.55	432.73	113.10	435.87	307.55	1190.98
2015	117.50	550.23	124.09	559.96	328.69	1519.67
2016	118.74	668.98	123.64	683.60	316.58	1836.25
2017	118.40	787.37	121.88	805.47	310.55	2146.80
2018	111.05	898.43	112.85	918.32	298.48	2445.28
2019	100.58	999.01	97.21	1015.53	289.42	2734.70

Table II-2

	Projected Summer De	emand Savings (MW)	Projected Winter De	mand Savings (MW)	Projected Annual Energy Savings (GWh	
Year	Incre me ntal	Cumulative	Incre me ntal	Cumulative	Incremental	Cumulative
2011	17.66	17.66	9.83	9.83	33.04	33.04
2012	24.60	42.26	10.18	20.00	35.92	68.96
2013	24.88	67.14	12.44	32.44	37.80	106.76
2014	25.30	92.44	13.55	45.99	39.69	146.45
2015	27.07	119.51	16.42	62.41	46.29	192.74
2016	25.76	145.28	15.91	78.32	42.52	235.26
2017	25.10	170.37	15.65	93.97	40.63	275.89
2018	25.53	195.90	15.81	109.77	41.87	317.77
2019	22.70	218.61	13.15	122.92	34.04	351.80

Proposed Residential and Commercial/Industrial Segment Demand and Energy Data provided in Tables II-1 and II-2 include the Demand Side Renewable Demand and Energy Data provided in Table 1I-3

Table II-3, presents the demand and energy impacts projected associated with the demand side renewable portfolio, which was previously approved by the Commission in Order No. PSC-10-0605-PAA-EG.

Table II-3

Proposed Demand Side Renewable Plan 2010 DSM Filing (Savings at the Generator)							
	Projected Summer De	emand Savings (MW)	Projected Winter Demand Savings (MW)		Projected Annual Energy Savings (GW		
Year	Incre me ntal	Cumulative	Incre me ntal	Cumulative	Incre me ntal	Cumulative	
2011	3.11	4.54	5.17	7.75	6.48	9.06	
2012	3.11	7.64	5.17	12.91	6.48	15.54	
2013	3.11	10.75	5.17	18.08	6.48	22.01	
2014	3.11	13.85	5.17	23.24	6.48	28.49	

Table II-4, summarizes the energy goals (GWh) over the life of the plan, the program costs broken out for DSM and renewable, the residential ECCR at 1,200 KWh/month and the base (non-fuel) revenue impacts for the 9 year (2011-2019) period of the plan.

Table II-4

Progress Energy Florida DSM Cost Estimates - "Original Goal Scenario"

	DSM Plan Reductions (GWh @ Generator) (1)			(GWh @ Generator) DSM Plan Cost		Residential ECCR Impacts	Lost Base 3	DSM Plan Cost + Lost Base
Year	Annual (1a)	Cumulative (1b)	Energy Efficiency and Demand Response	Renewables (2b)	@ 1200 kWh (3)	Revenue (4)	Revenue (5) (2a +2b + 4)	
Current	118				\$3.24			
2011	319	437	\$314,316,565	\$4,802,365	\$11.28	\$17,279,219	\$336,398,149	
2012	331	769	\$353,686,582	\$5,351,773	\$12.60	\$31,016,675	\$390,055,031	
2013	339	1,108	\$405,004,367	\$5,856,400	\$14.45	\$45,056,170	\$455,916,937	
2014	347	1,455	\$456,661,457	\$6,316,251	\$16.52	\$59,452,525	\$522,430,234	
2015	375	1,830	\$543,325,287	\$1,967,282	\$19.72	\$74,965,534	\$620,258,103	
2016	359	2,190	\$538,987,267	\$1,702,371	\$19.56	\$89,815,120	\$630,504,758	
2017	351	2,541	\$557,452,701	\$1,280,014	\$20.00	\$104,316,612	\$663,049,327	
2018	340	2,881	\$539,963,853	\$902,775	\$19.03	\$118,268,171	\$659,134,800	
2019	323	3,205	\$525,329,895	\$570,656	\$18.20	\$131,622,475	\$657,523,027	
TOTALS	3,205	3,205	\$4,234,727,977	\$28,749,889	\$16.79 ⁴	\$671,792,501	\$4,935,270,366	

Reflects revenue requirements associated with renewable expenditures of \$1.78 million in 2010 and \$6.47 million in each of the years 2011-2014.

² Residential Class ECCR impacts of the program costs in 2a and 2b based on PEF's standard ECCR calculation, calculated by applying those program costs to the residential class ECCR demand and energy allocation factors, summing the resulting costs, dividing that sum by the kWh energy sales for that customer class, and multiplying by 1,200.

³ Average residential and commercial base rates multiplied against respective residential and commercial lost GWh (at the meter).

⁴ Average of 2011 - 2019.

Table II-5, below, is the estimated annual program costs and residential bill impact per 1,200 KWh, relative to PEF Revised Goal Plan (being filed separately). Included are the lost base revenues and average impacts over the 9-year (2011-2019) period of the plan. The costs and lost base revenue impacts associated with Revised Goal Plan, as indicated in Table II-5, would have a lesser impact on customers.

Revised Goal Plan

Table II-5

	Revised Goal Plan						
Year	Program Costs	Residential Bill Impacts per 1,200 KWh	Cumulative Lost Base Revenues				
2011	\$130,895,837	\$4.84	\$10,023,955				
2012	\$147,946,367	\$5.39	\$16,201,843				
2013	\$191,241,985	\$6.90	\$22,307,148				
2014	\$234,332,491	\$8.47	\$28,577,881				
2015	\$258,399,313	\$9.43	\$34,585,020				
2016	\$252,320,761	\$9.11	\$40,502,574				
2017	\$237,528,968	\$8.45	\$45,838,987				
2018	\$219,088,687	\$7.58	\$51,060,015				
2019	\$203,417,730	\$6.86	\$56,053,797				
Total	\$1,875,172,140	N.A.	\$305,151,220				
9 year Average	\$208,352,460	\$7.49	\$33,905,691				

III. PROGRAM INTRODUCTION

A. PROGRAM OBJECTIVES

This "Original Goal Scenario" has been designed with the assumption of meeting the following objectives:

- Achieve, to the extent reasonably possible, the aggressive annual and cumulative conservation goals for 2011-2019 established in Order no. PSC-10-0198-FOF-EG
- Fulfill the requirements of Section 366.82(3)(b), F.S.
- Reduce and control the growth rates of electric consumption and weather sensitive peak demand
- Provide enhanced efficiency measures in all end-use sectors across all customer segments
- Offer enhanced energy efficiency options for low-income customers
- Offer demand side renewable pilot programs previously approved in Order No. PSC-10-0605-PAA-EG with consideration of the expenditure cap placed on the development of these technologies
- Attempt to achieve the technical potential of certain residential measures that have less than a two-year payback
- Influence customer behaviors through energy efficiency education initiatives

The "Original Goal Scenario" is designed with the assumption of attempting to meet the aggressive goals with the recognition that PEF will need to establish the infrastructure to incorporate new and emerging technologies that are necessary for meeting the aggressive Technical Potential portion of the goals. Additionally, as the market for a product matures and early adopters have been exhausted, customer adoption is expected to become more difficult to achieve through standard marketing practices such as advertising and promotion strategies. Customer incentives will be a key market driver that will impact the adoption of program offerings. Thus, PEF expects to analyze and re-file adjustments to its program incentives and participation estimates as needed.

B. PORTFOLIO OVERVIEW

PEF recognizes that significant and sustained customer participation is critical to achieving the aggressive goals shared by the Company and its customers. Therefore, PEF has strived to design a comprehensive portfolio with a wide variety of energy efficiency, demand response, renewable, and educational opportunities for all of its customers. This portfolio design leverages and expands the successful program and marketplace infrastructure resulting from PEF's extensive experience, and incorporates new innovative programs that provide further energy saving opportunities for customers. PEF will continue to encourage customers to participate in its audit programs. The audit tools, specifically the on-line and phone assisted tools are being redesigned to encourage participation in no and low-cost energy savings measures and to promote program participation. The Business Energy Check is being enhanced to include an energy savings kit similar to the kit provided to residential customers.

Residential Program Programs

Residential EE & DR Programs			
Home Energy Check	Residential Energy Management		
Home Energy Improvement	Technical Potential*		
Residential New Construction	A Company from the control of the co		
Neighborhood Energy Saver	transpersor (for each or each		
Low-income Weatherization Assistance	To a state of the		

Technical Potential

Targets the residential customer segment, designed to promote measures that have a payback period of two years or less.

Commercial/Industrial Programs

Commercial/Industrial EE & DR Programs				
Business Energy Check	Innovation Incentive			
Better Business	Standby Generation			
Commercial/Industrial New Construction	Interruptible Service			
Business Energy Saver*	Curtailable Service			
Commercial Green Building New Construction*	Business Energy Response*			

Business Energy Saver	Reduces the energy consumption of businesses located in low-income areas by means of educating business owners and installing energy conservation measures.
Commercial Green Building New Construction	Encourages energy efficient construction of new commercial facilities according to guidelines set forth by LEED-NC.
Business Energy Response	Reduces electric energy consumption and expands demand response opportunities of participating non-residential customers through enabling two-way communication technologies

Demand Side Renewable Program Portfolio

An additional enhancement to PEF's program offerings is the Demand Side Renewable Portfolio, which was previously approved by the Commission in Order No. PSC-10-0605-PAA-EG. This subcomponent of the portfolio is a comprehensive group of pilot programs designed to emphasize the benefits of solar photovoltaic technology, encourage development of renewable programs, and place an added emphasis on low-income and education pilots.

Renewable Programs (Residential)	Renewable Programs (Commercial)
Residential Solar Photovoltaic	Commercial Solar Photovoltaic
Solar Water Heating with Energy Management	Photovoltaic for Schools (Pilot)
Solar Water Heating (Low-Income)	
Research and De	monstration

Technology Development and Qualifying Facilities Programs

Technology Development Pursues research, development, and demonstration projects of

energy saving technologies and concepts to further the investigation and understanding for potential inclusion in future program offerings

Qualifying facilities Administers, negotiates, enters into, amends, and restructures firm

energy and capacity contracts entered into with qualifying

cogeneration and small power production facilities.

C. COST-EFFECTIVENESS TESTS

Proposed programs have been analyzed for cost-effectiveness using the Commission-approved tests described in Rule 25-17.008, Florida Administrative Code, with the exception of the following programs:

Program	Reason for Exception
Home Energy Check	Mandated in 25-17.003(3)(b)
Technical Potential	Mandated in Order No. PSC-09-0855-FOF-EG
Business Energy Check	Mandated in 25-17.003(3)(d)
Innovation Incentive	Cost effectiveness tests will be conducted at project consideration
Research and Development of the Demand Side Renewable Portfolio	Mandated in 25-17.001(5)(f) ²
Technology Development	Mandated in 25-17.001(5)(f)
Qualifying Facilities	Mandated in 25-17.082(1)

Strategist, an energy planning and analytics software, was used to evaluate the applicable Demand Side Management programs against avoidable supply-side capacity. In contrast to static models, Strategist is a more sophisticated dynamic model which more closely simulates the operation of the power system. For example, Strategist is directly integrated with other supply-side planning models, thereby allowing variables such as marginal fuel costs, hourly production costs, and generation equivalency to be computed and applied.

² Previously approved in Order No. PSC-10-0605-PAA-EG

A summary of the cost-effectiveness results for each of the applicable Demand Side Management programs included in this Demand Side Management Plan is shown in Table III-1. In addition, detailed program cost-effectiveness results are presented at the end of each applicable program discussion in Sections IV through VI of this document. These detailed results consist of one page each for the Rate Impact Measure (RIM), Participant and Total Resource Cost (TRC) tests.

Summary of Demand Side Management Programs Included in "Original Goal Scenario"

Period 2011-2019

Table III-1

	Rate Impact Measure Test		Participant Test			Total Resource Cost Test				
DSM Measure	NPV Total Benefits (\$000)	NPV Total Costs (\$000)	Costs B/C	NPV Total Benefits (\$000)	Total Costs (\$000)	B/C Ratio	NPV Total Benefits (\$000)	Total Costs (\$000)	B/C Ratio	Program Status
Residential Conservation Prog	rams									
Home Energy Check	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Modified
Home Energy Improvement	\$1,017,140	\$1,350,508	0.75	\$1,213,696	\$487,514	2.49	\$1,017,140	\$624,326	1.63	Modified
Residential New Construction	\$105,668	\$137,298	0.77	\$126,643	\$55,138	2.30	\$105,668	\$65,793	1.61	Modified
Neighborhood Energy Saver	\$69,352	\$90,095	0.77	\$77,508	\$28,350	2.73	\$69,352	\$40,937	1.69	Modified
Low Income Weatherization	\$12,066	\$15,691	0.77	\$12,599	\$4,906	2.57	\$12,066	\$7,997	1.51	Modified
Residential Energy Mgmt	\$950,529	\$810,825	1.17	\$263,082	\$0	9999	\$950,529	\$531,381	1.79	Existing
Technical Potential	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N.A.	New
Commercial/Industrial Conser	vation Prog	rams								
Business Energy Check	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Modified
Better Business	\$135,407	\$158,076	0.86	\$139,582	\$33,617	4.15	\$135,407	\$52,111	2.60	Modified
Commercial/Industrial New	\$28,376	\$36,607	0.78	\$32,117	\$13,738	2.34	\$28,376	\$18,228	1.56	Modified
Business Energy Saver	\$1,841	\$1,869	0.99	\$1,518	\$447	3.40	\$1,841	\$797	2.31	New
Commercial Green Building	\$5,355	\$7,467	0.72	\$6,670	\$2,466	2.70	\$5,355	\$3,264	1.64	New
Innovation Incentive	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Modified
Standby Generation	\$80,510	\$11,584	6.95	\$10,235	\$0	9999	\$80,510	\$1,349	59.68	Modified
Interruptible Service	\$6,187	\$1,315	4.70	\$1,127	\$0	9999	\$6,187	\$187	33.09	Modified
Curtailable Service	\$4,508	\$720	6.26	\$663	\$0	9999	\$4,508	\$57	78.80	Modified
Business Energy Response	\$338,403	\$297,608	1.14	\$6,944	\$0	9999	\$338,403	\$131,405	2.58	New
Demand Side Renewable Port		Ψ257,000		1 4-7						
Solar Water Heating for Low- income Residential Customers	\$359	\$906	0.40	\$745	\$392	1.90	\$359	\$553	0.65	New
Solar Water Heating with Energy Management	\$34,097	\$28,707	1.19	\$33,388	\$28,811	1.16	\$41,138	\$31,171	1.32	Modified
Residential Solar Photovoltaic	\$4,469	\$8,761	0.51	\$11,361	\$13,958	0.81	\$7,511	\$14,400	0.52	New
Commercial Solar Photovoltaic	\$5,119	\$8,809	0.58	\$10,904	\$12,714	0.86	\$7,713	\$13,213	0.58	New
Photovoltaics for Schools	\$1,681	\$7,913	0.21	\$4,550	\$1,042	4.37	\$5,100	\$7,824	0.65	New
Research & Development	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	New
Technology Development	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Modified
Oualifying Facilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Existing

Previously approved in Order No. PSC-10-0605-PAA-EG

D. PROGRAM MONITORING AND EVALUATION

Program monitoring and evaluation are important components of Demand Side Management implementation. Specifically, program monitoring includes tracking program accomplishments and ensuring quality control. Program evaluation documents the energy and demand impacts of the program and also recommends how the program can be improved through program modifications.

The program monitoring and evaluation methodologies that Progress Energy intends to use will leverage a variety of data sources including but not limited to: customer-specific audits, billing usage, customer surveys, engineering and building simulation modeling, demographics, weather information, and end-use load research metering. Progress Energy will determine and employ evaluation methodologies specific to each program based on factors such as dollars invested (or program budget), participation levels, program impacts, and measure performance uncertainties.

E. Cost-Recovery

Progress Energy submits the programs herein described for approval and for inclusion as cost recoverable Conservation and Energy Efficiency programs under current Commission-approved procedures pursuant to Rule 25-17.015, Florida Administrative Code ("F.A.C."), and will seek recovery of all prudent costs associated with the development, implementation, and administration of all programs and pilots submitted with this Demand Side Management Plan.

Progress Energy seeks cost recovery for previously closed programs that have ongoing costs associated with grandfathered participants. These programs include Commercial Energy Management, Interruptible Service (IS-1) and (IST-1), and Curtailable Service (CS-1) and (CST-1).

Additionally, Progress Energy seeks cost recovery for the programs contained within the Demand Side Renewable Portfolio approved in Order No. PSC-10-0605-PAA-EG.

PEF's September 17, 2010 ECCR Projection Filing (Docket No. 100002-EG), which proposes ECCR rates for 2011, was based on PEF's currently approved programs and, thus, does not reflect the increased cost commensurate with this "Original Goal Scenario". PEF may seek a mid-course correction of the ECCR rate during 2011 to mitigate rate impacts for any material difference (larger than ten percent) between the cost recovery charges approved in Docket No. 100002-EG and the cost needed to implement any new DSM Plan approved by the Commission.

IV. RESIDENTIAL CONSERVATION PROGRAMS

The "Original Goal Scenario" includes seven residential programs:

- Home Energy Check program focused on residential energy audits
- Home Energy Improvement program focused on retrofitting energy efficiency into existing homes (single family, multi-family and manufactured homes)
- Residential New Construction program promoting energy efficiency for new construction, multi-family, and manufactured homes
- Neighborhood Energy Saver program designed to assist low-income families with energy costs by making energy efficiency improvements
- Low-Income Weatherization Assistance program designed for the weatherization of the homes of low-income families
- Residential Energy Management program focused on residential load control to reduce peak demands and defer generation needs
- Technical Potential program designed to achieve the technical potential of certain residential measures that have a payback period of two years or less

Each program is described in detail in the following sections.

A. HOME ENERGY CHECK PROGRAM

Program Start Date:

1995

Modifications proposed in 2010

Program Description

The Home Energy Check is an energy audit program that provides residential customers with an

analysis of their energy use as well as recommendations on how they can save on their electricity

bill. The audit focuses on education and encouraging customers to implement minimal cost

energy-saving practices and measures. The audit also provides Progress Energy the opportunity

to promote cost effective measures in customers' homes. The Home Energy Check program

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serves as the foundation other residential Demand Side Management programs.

The Home Energy Check program offers the following types of energy audits:

• Type 1: Free Walk-Through

Type 2: Customer-completed Mail-In

• Type 3: Customer Online (Internet Option)

• Type 4: Customer Phone Assisted

• Type 5: Home Energy Check for Kids

• Type 6: Paid Walk-Through

• Type 7: Home Energy Rating (Class I, II)

Customers participating in all audit types will be provided with energy efficiency tips and examples of easily installed energy efficiency measures. The program promotes continued customer involvement by demonstrating sustainable and measurable energy reductions in energy usage through the implementation of low cost energy efficiency measures.

The customer will receive a residential Energy Efficiency Kit via the following methods:

- At the time of the onsite Home Energy Check
- Through the mail following completion of all other types of Home Energy Checks

The kit provides items that are easily implemented for energy efficiency. The contents of the kit will change as needed to achieve high savings impacts while recognizing changes in technology and customer habits. Items that may be included in the kit are energy efficient lighting, thermometers, weatherization items, low-flow devices, as well as education for the customer on the savings associated with the installation of the items in the kit.

The Free Walk Through audit has been enhanced to include a mobile delivery method that will help guide the company's improvements in its residential energy audits. This enhanced delivery of the Free Walk-Through provides the energy auditor with a more effective way to input information about the customer's home. The mobile device will address customer needs immediately through online information, and it may print a copy of the report while at the customer's home emphasizing the steps that the customer should focus on for improving energy efficiency. The mobile audit also allows the upload of the energy audit results to the company's customer database. The company intends to build on the benefits of this platform to increase the value it provides as well as to ensure customer satisfaction with this energy audit.

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Policies and Procedures

All residential customers of Progress Energy are eligible to receive any of the above energy audits conducted on residentially metered buildings, located in Progress Energy's service territory. There is no charge for Type 1 through Type 5 home energy checks, while there is a \$15 customer charge for the Type 6 Home Energy Check. When a customer requests a Home Energy Check, they will be given the option of receiving a Type 2 Home Energy Check survey in the mail, a Type 4 Phone Assisted Home Energy Check or the option of scheduling a Type 1 or Type 6 Walk-through Home Energy Check. A Progress Energy auditor will usually conduct the Walk-through Home Energy Check, although Progress Energy reserves the option to work with other agencies and/or utilities as an extension of the Home Energy Check service. An approved energy auditor from another organization may conduct the Home Energy Check. The Home Energy Rating as outlined in Progress Energy's "Florida Energy Gauge Ratings" tariff is available to all eligible Progress Energy customers upon request.

Program Participation

Annual participation estimates for the Home Energy Check program are shown in the following table:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾	
2011	1,473,688	1,473,688	70,303	4.8%	
2012	1,495,098	1,495,098	71,521	9.5%	
2013	1,521,451	1,521,451	71,492	14.0%	
2014	1,548,531	1,548,531	71,585	18.4%	
2015	1,575,167	1,575,167	72,093	22.7%	
2016	1,600,448	1,600,448	70,715	26.7%	
2017	1,624,503	1,624,503	71,585	30.7%	
2018	1,647,724	1,647,724	70,936	34.6%	
2019	1,671,277	1,671,277	71,025	38.4%	

^{1.} The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan.

The entire residential class is eligible for participation.

^{3.} Number of participants represents the customers that Progress Energy expects to reach through this program annually.

^{4.} Cumulative penetration is the ratio of cumulative participating customers to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and, annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	386	0.09	0.15	27,108,880	6,296	10,225
2012	383	0.09	0.14	27,418,540	6,305	10,305
2013	382	0.09	0.14	27,321,096	6,249	10,249
2014	381	0.09	0.14	27,271,386	6,204	10,211
2015	380	0.09	0.14	27,379,715	6,196	10,232
2016	379	0.09	0.14	26,774,740	6,026	9,987
2017	374	0.08	0.14	26,777,622	5,995	9,970
2018	377	0.08	0.14	26,732,232	5,954	9,934
2019	376	0.08	0.14	26,687,237	5,913	9,900

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	411	0.10	0.15	28,879,090	6,707	10,893
2012	408	0.09	0.15	29,208,971	6,716	10,978
2013	407	0.09	0.15	29,105,164	6,657	10,918
2014	406	0.09	0.15	29,052,208	6,609	10,877
2015	405	0.09	0.15	29,167,610	6,600	10,900
2016	403	0.09	0.15	28,523,131	6,420	10,639
2017	398	0.09	0.15	28,526,200	6,387	10,621
2018	401	0.09	0.15	28,477,847	6,342	10,583
2019	400	0.09	0.15	28,429,913	6,299	10,546

Impact Evaluation Plan

The range of possible recommendations resulting from the audit and the inclusion of both technological and behavioral recommendations suggests the need to survey Home Energy Check participants to determine what specific conservation actions have been implemented within each

market segment due to the completed audit. Survey results combined with the participant-specific data gathered during the audit will be used to determine the savings which can be attributed to the Home Energy Check program. The impact evaluation plan for this program may use engineering simulation and statistical billing analysis to estimate demand and energy impacts.

B. HOME ENERGY IMPROVEMENT PROGRAM

Program Start Date:

1995

Program modified in 2000, 2006, 2007

Modifications proposed in 2010

Program Description

The Home Energy Improvement program is designed for the existing single family, multi-family and manufactured home customers who want to retrofit with high energy efficiency improvements. All residential customers are eligible to participate in one or more measures included in this program. The program builds on customer awareness by utilizing various audit types, contractor participation and Progress Energy influence to educate customers on cost-effective measures relevant to their residence.

The program seeks to meet the following overall goals:

- Provide a cost-effective and comprehensive program portfolio of measures across all housing types
- Improve customer energy savings and demand reduction through the installation of energy efficient equipment and thermal envelope upgrades
- Obtain energy and demand impacts that are significant, accurate and measurable

 Educate the residential retrofit market about best practices, innovative technologies and opportunities to leverage participation in all applicable incentives for managing energy consumption.

Policies and Procedures

Program participation must be influenced by one of Progress Energy's educational opportunities.

The program provides incentives for high efficiency HVAC equipment including installation and maintenance, duct repair, attic and wall insulation upgrades, reflective roofing, high performance windows, window film and heat pump water heaters to residential customers in Progress Energy's service territory.

Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions, such as baseline or code revisions, updated measure and verification analysis or technological advances.

Progress Energy is proposing to include the following measures with this program:

High Efficiency HVAC Systems

The High Efficiency HVAC System measure will provide customers an incentive to install a high efficiency HVAC system when their existing system fails. The incentive will be awarded on

a per unit basis according to efficiency rating and tonnage, regardless of the system type (*PTAC*, *Mini-Split, Multi-Split, Geothermal Heat Pumps, etc.*). Measure requirements will be outlined in the Program Participation Standards.

HVAC Early Replacement

This measure provides customers an incentive for replacing their low efficiency HVAC system, prior to it failing, with a high efficiency HVAC system. The incentive will be awarded on a per unit basis according to efficiency rating and tonnage regardless of the system type (*PTAC*, *Mini-Split*, *Multi-Split*, *Geothermal Heat Pumps*, *etc.*). Measure requirements will be outlined in the Program Participation Standards.

Proper Sizing of High Efficiency HVAC Systems

This portion of the program encourages the customer to have a new replacement air conditioning system properly sized by the HVAC contractor using industry accepted sizing protocol. The Proper Sizing of High Efficiency HVAC Systems measure is performed in conjunction with the installation of a new HVAC system.

Supply and Return Plenum Seal

This measure encourages the HVAC contractor to seal the supply and return portion of the plenum to a new air handler with mastic. The Supply and Return Plenum Seal measure is performed in conjunction with the installation of a new HVAC system.

HVAC Commissioning

An incentive will be provided for the Commissioning of HVAC system(s) in accordance with Progress Energy standards and requirements, eligible on all Florida Energy Code compliant HVAC systems. The requirements and incentives will be outlined in the Program Participation Standards. The HVAC Commissioning measure is performed in conjunction with the installation of a new HVAC system.

Duct Repair

This portion of the program is designed to promote energy efficiency through improved duct sealing. A customer must have electric heating and a centrally-ducted cooling system, either air conditioning or heat pump, to be eligible for this program. The requirements and incentives will be outlined in the Program Participation Standards.

Attic Insulation Upgrade

This program measure encourages customers to upgrade their attic insulation by paying a portion of the installed cost. Eligible residences must have whole house electric air conditioning and/or whole house electric heating. The residence must meet the requirements of the Program Participation Standards to qualify for this measure.

Wall Insulation Upgrade

This program measure encourages customers to upgrade the insulation value of the exterior walls of the home by paying a portion of the installed cost. The requirements and incentives will be outlined in the Program Participation Standards.

Reflective Roof Coating

This measure will provide incentives to install an ENERGY STAR ® or Cool Roof Rating Council approved reflective roof coating product to a manufactured home's roof. The product must meet initial reflectance specifications as outlined in the Program Participation Standards.

Reflective Roof

This measure provides an incentive to install an ENERGY STAR ® or Cool Roof Rating Council reflective roof, on Single family, Multi-family, and applicable manufactured homes. The product must meet initial reflectance specifications as outlined in the Program Participation Standards.

Window Film

The measure awards an incentive for installing high performance window film. Qualifying residences will install window film that meets the specifications as outlined in the Program Participation Standards.

Replacement Windows

This measure awards an incentive for installing high performance windows. Qualifying residences will install windows that meet the specifications as outlined in the Program Participation Standards.

HVAC Tune-up

An HVAC contractor performs a tune-up on the customers' existing HVAC system(s) to include: verifying proper refrigerant charge, proper air flow to the residence, and cleaning indoor/outdoor coils and fan blades. During the performance assessment of the HVAC system, eligible customers will be encouraged to consider participating in the HVAC Early Replacement measure. The contractor must adhere to all requirements as outlined in the Program Participation Standards.

HVAC Quality Installation

The HVAC Quality Installation measure includes a requirement for the proper selection of equipment that is designed to perform efficiently in Florida's hot, humid climate. The Quality Installation measure also includes right-sizing of the equipment, supply and return plenum sealing, air flow verification and correct refrigerant charging. The contractor must adhere to all requirements as outlined in the Program Participation Standards.

Heat Pump Water Heater

Progress Energy will offer an incentive to install a new heat pump water heater that meets the ENERGY STAR ® electric water heater qualifications. This appliance must also meet the specifications as outlined in the Program Participation Standards.

Financing

Financing assistance is an alternative to the direct incentive payment. Progress Energy may explore opportunities to collaborate with 3rd party financing institutions to offer eligible program participants a financing option that focuses on achieving a low monthly payment. A potential financing option could be longer amortization schedules that would be utilized to create a monthly payment that corresponds with the monthly energy savings. Another potential feature of financing assistance would be to apply the customer's applicable incentive(s) for the measure(s) installed to the loan to buy-down the amount of the monthly payment.

Program Participation

Annual participation estimates for the Home Energy Improvement program are shown in the following table.

Year	Total Number of	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾	
2011	1,473,688	1,473,688	95,088	6.5%	
2012	1,495,098	1,495,098	106,024	13.5%	
2013	1,521,451	1,521,451	113,502	20.7%	
2014	1,548,531	1,548,531	121,797	28.2%	
2015	1,575,167	1,575,167	157,357	37.7%	
2016	1,600,448	1,600,448	141,480	45.9%	
2017	1,624,503	1,624,503	133,785	53.5%	
2018	1,647,724	1,647,724	117,942	59.9%	
2019	1,671,277	1,671,277	106,111	65.4%	

The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan.

The entire residential class is eligible for participation in at least one measure.
 Number of program participants represents the number of individual measure participants projected in a given year.

^{4.} Cumulative penetration is the ratio of cumulative measure participants to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and, annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	646	0.46	0.29	61,448,060	43,292	28,006
2012	651	0.46	0.29	69,032,446	48,284	31,261
2013	656	0.46	0.29	74,468,479	52,679	33,134
2014	656	0.46	0.29	79,887,709	56,324	35,605
2015	657	0.46	0.29	103,389,362	72,947	46,375
2016	656	0.46	0.30	92,804,528	65,772	41,975
2017	654	0.47	0.30	87,526,958	62,353	39,933
2018	652	0.47	0.30	76,908,813	55,099	35,404
2019	650	0.47	0.30	68,936,174	49,683	32,025

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	688	0.49	0.31	65,460,618	46,119	29,834
2012	694	0.49	0.31	73,540,264	51,437	33,302
2013	699	0.49	0.31	79,331,270	56,119	35,298
2014	699	0.49	0.31	85,104,377	60,002	37,930
2015	700	0.49	0.31	110,140,687	77,710	49,404
2016	699	0.50	0.32	98,864,664	70,067	44,716
2017	697	0.50	0.32	93,242,468	66,425	42,541
2018	695	0.50	0.32	81,930,959	58,697	37,716
2019	692	0.50	0.32	73,437,706	52,928	34,116

Impact Evaluation Plan

The Home Energy Improvement program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels. These analyses are supported by end-use metering data, where feasible.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

	NPV Benefits	NPV Costs \$	NPV Net	111
Cost-Effectiveness Test	\$(000)	(000)	Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$1,017,140	\$1,350,508	-\$333,369	0.75
Participant	\$1,213,696	\$487,514	\$726,182	2.49
Total Resource Cost	\$1,017,140	\$624,326	\$392,814	1.63

PROGRAM: Home Energy Improvement - RIM

	70		BENEFITS						COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	TOTAL	A VOIDED	A VOIDED			TOTAL	INCREASED	INCREA SED	UTILITY				
	FUEL & O&M	T&D CAP	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP.	GEN, CAP,	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SA VINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	7,200	640	0	0	7,839	0	0	0	12,812	55,089	8,832	76,733	-68,894
2012	13,398	1,356	0	0	14,754	0	0	0	15,700	65,758	18,333	99,791	-85,036
2013	27,263	2,125	9,973	0	39,360	0	0	0	18,359	76,756	30,220	125,335	-85,975
2014	26,923	2,950	21,792	0	51,665	0	0	0	21,355	86,820	43,520	151,696	-100,031
2015	40,026	4,022	30,191	0	74,239	0	0	0	29,979	118,912	64,281	213,171	-138,932
2016	53,868	4,990	44,279	0	103,137	0	0	0	29,036	112,662	78,554	220,253	-117,116
2017	75,198	5,908	85,304	0	166,410	0	0	0	29,490	112,057	81,897	223,443	-57,034
2018	80,334	6,719	59,353	0	146,406	0	0	0	27,863	103,765	89,395	221,023	-74,617
2019	88,788	7,450	67,186	0	163,424	0	0	0	26,785	97,962	102,938	227,686	-64,262
2020	89,523	7,450	68,593	0	165,565	0	0	0	0	0	105,436	105,436	60,130
2021	89,294	7,450	70,041	0	166,785	0	0	0	0	0	113,013	113,013	53,771
2022	110,325	7,450	39,680	0	157,456	0	0	0	0	0	113,812	113,812	43,643
2023	114,159	7,366	50,828	0	172,353	0	0	0	0	0	113,151	113,151	59,202
2024	92,680	7,271	64,974	0	164,924	0	0	0	0	0	111,607	111,607	53,317
2025	90,067	7,164	65,023	0	162,254	0	0	0	0	0	109,754	109,754	52,500
2026	104,055	6,598	39,452	0	150,104	0	0	0	0	0	101,359	101,359	48,745
2027	78,543	5,950	64,300	0	148,793	0	0	0	0	0	90,617	90,617	58,176
2028	69,784	5,295	58,710	0	133,788	0	0	0	0	0	79,686	79,686	54,102
2029	69,839	4,613	37,710	0	112,162	0	0	0	0	0	68,440	68,440	43,722
2030	62,373	3,776	44,258	0	110,407	0	0	0	0	0	54,815	54,815	55,592
2031	48,623	2,937	38,664	0	90,223	0	0	0	0	0	40,944	40,944	49,280
2032	37,801	2,206	31,502	0	71,508	0	0	0	0	0	31,216	31,216	40,292
2033	27,439	1,534	24,377	0	53,350	0	0	0	0	0	22,097	22,097	31,253
2034	16,872	904	16,273	0	34,049	0	0	0	0	0	13,065	13,065	20,984
2035	14,471	746	13,822	0	29,039	0	0	0	0	0	11,266	11,266	17,773
2036	12,251	604	11,448	0	24,302	- 0	0	0	0	0	9,556	9,556	14,747
2037	9,953	468	9,004	0	19,425	0	0	0	0	0	7,844	7,844	11,581
2038	7,803	347	6,685	0	14,834	0	0	0	0	0	6,235	6,235	8,599
OMINAL	1,558,846	116,289	1,073,421	0	2,748,556	0	0	0	211,379	829,781	1,721,883	2,763,043	-14,487
PV	577,361	45,603	394,176	0	1,017,140	0	0	0	136,812	542,349	671,348	1,350,508	-333,369

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.753

PROGRAM: Home Energy Improvement - Participant

		BENI	EFITS		·	COSTS			
	(1) SA VINGS IN	(2)	(3) OTHER	(4)	(5)	(6) PARTICIPANT'S	(7)		(8)
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	BILL	TOTAL		NET
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS		BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)		\$(000)
2010	0	0	0	0	0	0	0	-	0
2011	8,832	55,089	0	63,921	49,809	0	49,809		14,112
2012	18,333	65,758	0	84,091	59,297	0	59,297		24,794
2013	30,220	76,756	0	106,976	69,006	0	69,006		37,970
2014	43,520	86,820	0	130,340	77,941	0	77,941		52,399
2015	64,281	118,912	0	183,192	106,659	0	106,659		76,534
2016	78,554	112,662	0	191,217	101,099	0	101,099		90,117
2017	81,897	112,057	0	193,954	100,609	0	100,609		93,344
2018	89,395	103,765	0	193,160	93,217	0	93,217		99,943
2019	102,938	97,962	0	200,900	88,043	0	88,043		112,857
2020	105,436	0	0	105,436	0	0	0		105,436
2021	113,013	.0	0	113,013	0	0	0		113,013
2022	113,812	0	0	113,812	0	0	0		113,812
2023	113,151	0	0	113,151	0	0	0		113,151
2024	111,607	0	0	111,607	0	0	0		111,607
2025	109,754	0	0	109,754	0	0	0		109,754
2026	101,359	0	0	101,359	0	0	0		101,359
2027	90,617	0	0	90,617	0	0	0		90,617
2028	79,686	0	0	79,686	0	0	0		79,686
2029	68,440	0	0	68,440	0	0	0		68,440
2030	54,815	0	0	54,815	0	0	0		54,815
2031	40,944	0	0	40,944	0	0	0		40,944
2032	31,216	0	0	31,216	0	0	0		31,216
2033	22,097	0	0	22,097	0	0	0		22,097
2034	13,065	0	0	13,065	0	0	0		13,065
2035	11,266	0	0	11,266	0	0	0		11,266
2036	9,556	0	0	9,556	0	0	0		9,556
2037	7,844	0	0	7,844	0	0	0		7,844
2038	6,235	0	0	6,235	0	0	0		6,235
NOMINAL	1,721,883	829,781	0	2,551,664	745,681	0	745,681		1,805,983
NPV	671,348	542,349	0	1,213,696	487,514	0	487,514		726,182

Utility Discount Rate = 8.48

Benefit Cost Ratio = 2.490

PROGRAM: Home Energy Improvement - TRC

			BENEFI	15				COSTS				
	(1) TOTAL FUEL & O&M SAVINGS	(2) A VOIDED T&D CAP. COSTS	(3) A VOIDED GEN CAP. COSTS	(4) OTHER PARTICIPANT'S BENEFITS	(5) TOTAL BENEFITS	(6) PARTICIPANT'S	(7) TOTAL FUEL & O&M	(8) INCREA SED T&D CA P.	(9) INCREA SED GEN. CAP.	(10) UTILITY PROGRAM	(11) TOTAL	(12) NET
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	COST \$(000)	INCREASE \$(000)	COSTS \$(000)	COSTS \$(000)	COSTS	COSTS	BENEFITS
2010	0	0	0	0	0	0	0	0	\$(000)	\$(000)	\$(000)	\$(000)
2011	7,200	640	0	0	7,839	49,809	0	0	0	12,812	0	0
2012	13,398	1,356	0	0	14,754	59.297	0	0	0		62,621	-54,781
2013	27,263	2,125	9,973	0	39,360	69,006	ő	0		15,700	74,997	-60,243
2014	26,923	2,950	21.792	0	51,665	77,941	0	0	0	18,359	87,365	-48,005
2015	40,026	4,022	30,191	0	74,239	106.659	0	0	0	21,355	99,297	-47,632
2016	53,868	4,990	44,279	0	103,137	101,099			0	29,979	136,638	-62,399
2017	75.198	5,908	85,304	0	166,410		0	0	0	29,036	130,136	-26,998
2018	80,334	6,719	59,353	0	2	100,609	0	0	0	29,490	130,099	36,311
2019	88,788	7,450	67,186	0	146,406	93,217	0	0	0	27,863	121,080	25,326
2020	89,523	7,450	68,593	0	163,424	88,043	0	0	0	26,785	114,828	48,595
2021	89.294	7,450	70,041	0	165,565	0	0	0	0	0	0	165,565
2022	110,325	7,450			166,785	0	0	0	0	0	0	166,785
2023	114,159		39,680	0	157,456	0	0	0	0	0	0	157,456
2023		7.366	50,828	0	172,353	0	0	0	0	0	0	172,353
2025	92,680	7,271	64,974	0	164,924	0	0	0	0	0	0	164,924
	90,067	7,164	65,023	0	162,254	.0	0	0	0	0	0	162,254
2026	104,055	6,598	39,452	0	150,104	0	0	.0	0	0	- 0	150,104
2027	78,543	5,950	64,300	0	148,793	0	0	0	0	0	0	148,793
2028	69,784	5,295	58,710	0	133,788	0	0	0	0	0	0	133,788
2029	69,839	4,613	37.710	0	112,162	0	0	0	0	0	0	112,162
2030	62,373	3,776	44,258	.0	110,407	0	0	.0	0	0	0	110,407
2031	48,623	2.937	38,664	0	90,223	0	0	0	0	0	0	90,223
2032	37,801	2,206	31,502	0	71,508	0	0	0	0	0	0	71,508
2033	27,439	1,534	24,377	0	53,350	0	0	0	0	0	0	
2034	16,872	904	16,273	0	34,049	0	0	0	0	0	0	53,350
2035	14,471	746	13,822	0	29,039	0	0	0	0	0	0	34,049
2036	12,251	604	11,448	0	24,302	0	0	0	0	0		29,039
2037	9,953	468	9,004	D.	19,425	0	0	0	0		0	24,302
2038	7,803	347	6,685	0	14,834	0	0	0	0	0	0	19,425
MINAL	1,558,846	116,289	1,073,421	0	2,748,556	745,681	0	0	0	211,379	957,060	14,834
V	577,361	45,603	394,176	0	1,017,140	487,514	0	0	0	136,812	624,326	1,791,497 392,814

Utility Discount Rate = 8.48

Benefit Cost Ratio = 1.629

C. RESIDENTIAL NEW CONSTRUCTION PROGRAM

Program Start Date:

1995

Program modified in 2000, 2004, 2006, 2007

Modifications proposed in 2010

Program Description

The Residential New Construction program (RNC) is designed to improve the energy efficiency of newly constructed residences in the single family, multi-family and manufactured homes segments.

The program seeks to meet the following overall goals:

- Provide a cost-effective comprehensive program portfolio of measures across all housing types
- Educate and promote energy efficient building design in the residential new construction industry
- Obtain energy and demand impacts that are significant, measurable and accurate
- Evaluate and recommend energy efficient building envelope and equipment measures for the new construction market

Policies and Procedures

Program participation must be influenced by one of Progress Energy's educational opportunities.

The Residential New Construction program will provide financial incentives and education to builders and developers for incorporating energy efficient measures into the construction process. To qualify for the program, the residence must be a new metered residence in Progress Energy territory

Renovations and additions will be governed by the current FL Building Code for eligibility as new construction. Additions do not qualify for the residential manufactured and the multi-family home segment.

Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions, such as baseline or code revisions, updated measurement and valuation analysis, or technological advances.

Progress Energy is proposing to include the following measures with this program:

High Efficiency HVAC Systems

High efficiency heat pumps will be expanded to 3 tiers of classification; 15 to 19+ SEER (*or equivalent EER*). Systems will qualify based on efficiency rating and tonnage regardless of the system type (*PTAC*, *Mini-Splits*, *Multi-Splits*, *Geothermal Heat Pumps*, etc.).

High Performance Windows

An incentive will be provided for the installation of high performance windows. The product must meet the specifications as outlined in the Program Participation Standards.

High Performance Exterior Wall Insulation

An incentive will be provided for the installation of high performance exterior wall insulation that exceeds the current Florida Energy Code by a factor of two. The product must meet the specifications as outlined in the Program Participation Standards.

HVAC Commissioning

An incentive will be provided for the commissioning of HVAC system(s) in accordance with Progress Energy standards and requirements, eligible on all Florida Energy Code compliant HVAC systems. The requirements and incentives will be outlined in the Program Participation Standards.

ENERGY STAR ® Certification

Progress Energy will offer the builder an incentive to help offset the cost to have a residence rated to meet the ENERGY STAR ® certification. The incentive is paid if the residence achieves ENERGY STAR ® 's qualifications and at least two Residential New Construction measures are installed. The builder who qualifies for this incentive is not eligible for any other RNC program incentives. The requirements and incentives will be outlined in the Program Participation Standards.

Code Plus 20 Construction

Progress Energy will offer an incentive to builders that construct a residence exceeding the current Florida Energy Code by at least 20% provided they install at least three Residential New Construction program measures. The builder who qualifies for this incentive is not eligible for any other RNC program incentives. The requirements and incentives will be outlined in the Program Participation Standards.

Multi-Family Complexes with Heat Pumps

Multi-family builders and developers that can verify a change in design from A/C systems with electric resistance heat to heat pumps will qualify for a per heat pump system incentive to offset the costs associated with the design change. The requirements and incentives will be outlined in the Program Participation Standards.

HVAC Quality Installation

The Quality Installation measure requires the proper selection of equipment and includes the right-sizing of the equipment, supply and return plenum sealing, air flow verification and correct refrigerant charging. The contractor must adhere to all requirements as outlined in the Program Participation Standards.

Heat Pump Water Heaters

Progress Energy will offer builders an incentive to install new heat pump water heaters that meet the ENERGY STAR ® electric water heater qualifications. This appliance must also meet the specifications as outlined in the Program Participation Standards.

Program Participation

Annual participation estimates for the Residential New Construction program are shown in the following table.

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	1,473,688	16,273	3,292	20.2%
2012	1,495,098	21,410	3,286	17.5%
2013	1,521,451	26,353	3,265	15.4%
2014	1,548,531	27,080	3,847	15.0%
2015	1,575,167	26,636	3,936	15.0%
2016	1,600,448	25,281	3,638	14.9%
2017	1,624,503	24,055	3,457	14.8%
2018	1,647,724	23,221	3,196	14.7%
2019	1,671,277	23,553	3,009	14.5%

The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan.

Eligible Customers is the number of qualifying new homes built in Progress Energy's territory in the given year. Number of program participants represents the number of individual participants projected in a given year.

Cumulative penetration is the ratio of cumulative participants to the accumulated eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and, annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	2159	1.03	0.89	7,109,013	3,400	2,926
2012	2232	1.10	0.91	7,333,726	3,608	3,002
2013	2292	1.14	0.93	7,483,534	3,727	3,040
2014	1984	1.00	0.88	7,633,343	3,828	3,369
2015	2073	1.02	0.89	8,157,673	4,020	3,506
2016	2160	1.05	0.91	7,858,055	3,810	3,293
2017	2230	1.07	0.92	7,708,247	3,692	3,169
2018	2318	1.09	0.93	7,408,630	3,498	2,976
2019	2388	1.12	0.94	7,183,918	3,355	2,834

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	2300	1.10	0.95	7,573,232	3,622	3,117
2012	2378	1.17	0.97	7,812,618	3,843	3,198
2013	2442	1.22	0.99	7,972,209	3,971	3,239
2014	2114	1.06	0.93	8,131,800	4,078	3,589
2015	2208	1.09	0.95	8,690,369	4,282	3,735
2016	2301	1.12	0.96	8,371,186	4,058	3,509
2017	2376	1.14	0.98	8,211,596	3,933	3,376
2018	2469	1.17	0.99	7,892,413	3,726	3,171
2019	2544	1.19	1.00	7,653,027	3,574	3,019

Impact Evaluation Plan

The Residential New Construction program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$105,668	\$137,298	-\$31,630	0.77
Participant	\$126,643	\$55,138	\$71,505	2.3
Total Resource Cost	\$105,668	\$65,793	\$39,875	1.61

PROGRAM: Residential New Construction - RIM

			BENEFITS			COSTS							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	TOTAL	A VOIDED	A VOIDED			TOTAL	INCREASED	INCREASED	UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP	GEN. CAP.	PROGRA M	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PA YMENTS	LOSSES	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	849	75	O	0	925	0	0	0	1,199	8,154	1,019	10,372	-9,448
2012	1,514	152	0	0	1,666	0	0	0	1,345	8,748	2,024	12,117	-10,451
2013	2,952	230	1,026	0	4,207	0	0	0	1,491	9,337	3,225	14,053	-9,846
2014	2,877	316	2,219	0	5,412	0	0	0	1,710	9,670	4,506	15,886	-10,474
2015	4,008	407	2,895	0	7,310	0	0	0	1,958	10,876	6,231	19,065	-11,755
2016	5,236	492	7,532	0	13,260	0	0	0	2,020	11,002	7,434	20,456	-7,197
2017	7,637	575	9,237	0	17,449	0	0	0	2,136	11,368	7,659	21,163	-3,714
2018	7,738	654	5,459	0	13,851	0	0	0	2,203	11,507	8,388	22,098	-8,247
2019	8,649	729	6,208	0	15,586	0	0	0	2,297	11,747	9,759	23,804	-8,218
2020	8,726	729	6,338	0	15,793	0	0	0	0	0	9,996	9,996	5,798
2021	8,727	729	6,472	0	15,928	0	0	0	0	0	10,712	10,712	5,215
2022	10,718	729	3,537	0	14,983	0	0	0	0	0	10,790	10,790	4,193
2023	11,147	721	5,825	0	17,694	0	0	0	0	0	10,704	10,704	6,990
2024	9,044	713	5,996	0	15,753	0	0	0	0	0	10,562	10,562	5,190
2025	8,816	705	6,006	0	15,526	0	0	0	0	0	10,421	10,421	5,105
2026	10,021	645	3,610	0	14,275	0	0	0	0	0	9,652	9,652	4,623
2027	7,694	582	5,869	0	14,145	0	0	0	0	0	8,783	8,783	5,362
2028	6,895	520	5,328	0	12,743	0	0	0	0	0	7,831	7,831	4,912
2029	7,426	445	3,705	0	11,575	0	0	0	0	0	6,704	6,704	4,871
2030	7,088	368	7,348	0	14,804	0	0	0	0	0	5,476	5,476	9,328
2031	5,792	289	6,770	0	12,851	0	0	0	0	0	4,149	4,149	8,701
2032	4,589	222	5,467	0	10,277	0	0	0	0	0	3,282	3,282	6,994
2033	3,389	158	4,083	0	7,631	0	0	0	0	0	2,460	2,460	5,170
2034	2,208	98	2,632	0	4,937	0	0	0	0	0	1,612	1,612	3,325
2035	2,108	90	2,497	0	4,695	0	0	0	0	0	1,570	1,570	3,125
2036	2,031	84	2,368	0	4,482	0	0	0	0	0	1,528	1,528	2,954
2037	1,962	77	2,237	0	4,276	0	0	0	0	0	1,484	1,484	2,792
2038	1,892	71	2,111	0	4,074	0	0	0	0	0	1,435	1,435	2,640
MINAL	161,729	11,604	122,775	0	296,107	0	0	0	16,359	92,410	169,400	278,168	17,938
V	58,480	4,551	42,637	0	105,668	0	0	0	10,655	61,315	65,328	137,298	-31,630

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.770

PROGRAM: Residential New Construction - Participant

		BENI	EFITS			COSTS		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SAVINGS IN		OTHER			PARTICIPANT'S		
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	BILL	TOTAL	NET
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	BENEFTIS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0
2011	1,019	8,154	0	9,173	7,327	0	7,327	1,847
2012	2,024	8,748	0	10,772	7,865	0	7,865	2,907
2013	3,225	9,337	0	12,562	8,398	0	8,398	4,164
2014	4,506	9,670	0	14,176	8,705	0	8,705	5,471
2015	6,231	10,876	0	17,107	9,789	0	9,789	7,318
2016	7,434	11,002	0	18,437	9,898	0	9,898	8,538
2017	7,659	11,368	0	19,027	10,224	0	10,224	8,803
2018	8,388	11,507	0	19,895	10,343	0	10,343	9,553
2019	9,759	11,747	0	21,507	10,547	0	10,547	10,960
2020	9,996	0	0	9,996	0	0	0	9,996
2021	10,712	0	0	10,712	0	0	0	10,712
2022	10,790	0	0	10,790	0	0	0	10,790
2023	10,704	0	0	10,704	0	0	0	10,704
2024	10,562	0	0	10,562	0	0	0	10,562
2025	10,421	0	0	10,421	0	0	0	10,421
2026	9,652	0	0	9,652	0	0	0	9,652
2027	8,783	0	0	8,783	0	0	0	8,783
2028	7,831	0	0	7,831	0	0	0	7,831
2029	6,704	0	0	6,704	0	0	0	6,704
2030	5,476	0	0	5,476	0	0	0	5,476
2031	4,149	0	0	4,149	0	0	0	4,149
2032	3,282	0	0	3,282	0	0	0	3,282
2033	2,460	0	0	2,460	0	0	0	2,460
2034	1,612	0	0	1,612	0	0	0	1,612
2035	1,570	0	0	1,570	0	0	0	1,570
2036	1,528	0	0	1,528	0	0	0	1,528
2037	1,484	0	0	1,484	0	0	0	1,484
2038	1,435	0	0	1,435	0	0	0	1,435
OMINAL	169,400	92,410	0	261,809	83,096	0	83,096	178,714
PV	65,328	61,315	0	126,643	55,138	0	55,138	71,505

Utility Discount Rate = 8.48
Benefit Cost Ratio = 2.297

PROGRAM: Residential New Construction - TRC

			BENEFT	ΓS				COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL	A VOIDED	A VOIDED	OTHER			TOTAL	INCREASED	INCREASED	UTILITY		
	FUEL & O&M		GEN. CAP.	PARTICIPANT'S	TOTAL	PARTICIPANT'S	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	TOTAL	NET
	SA VINGS	COSTS	COSTS	BENEFITS	BENEFTIS	COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	849	75	0	0	925	7,327	0	0	0	1,199	8,526	-7,601
2012	1,514	152	0	0	1,666	7,865	0	0	0	1,345	9,210	-7,544
2013	2,952	230	1,026	0	4,207	8,398	0	0	0	1,491	9,889	-5,682
2014	2,877	316	2,219	0	5,412	8,705	0	0	0	1,710	10,415	-5,004
2015	4,008	407	2,895	0	7,310	9,789	0	0	0	1,958	11,747	-4,437
2016	5,236	492	7,532	0	13,260	9,898	0	0	0	2,020	11,918	1,342
2017	7,637	575	9,237	0	17,449	10,224	0	0	0	2,136	12,360	5,089
2018	7,738	654	5,459	0	13,851	10,343	0	0	0	2,203	12,545	1,305
2019	8,649	729	6,208	0	15,586	10,547	0	0	0	2,297	12,844	2,742
2020	8,726	729	6,338	0	15,793	0	0	0	0	0	0	15,793
2021	8,727	729	6,472	0	15,928	0	0	0	0	0	0	15,928
2022	10,718	729	3,537	0	14,983	0	0	0	0	0	0	14,983
2023	11,147	721	5,825	0	17,694	0	0	0	0	0	0	17,694
2024	9,044	713	5,996	0	15,753	0	0	0	0	0	0	15,753
2025	8,816	705	6,006	0	15,526	0	0	0	0	0	0	15,526
2026	10,021	645	3,610	0	14,275	0	.0	0	0	0	0	14,275
2027	7,694	582	5,869	0	14,145	0	0	0	0	0	0	14,145
2028	6,895	520	5,328	0	12,743	0	0	0	0	0	0	12,743
2029	7,426	445	3,705	0	11,575	0	0	0	0	0	0	11,575
2030	7,088	368	7,348	0	14,804	0	0	0	0	0	0	14,804
2031	5,792	289	6,770	0	12,851	0	0	0	0	0	0	12,851
2032	4,589	222	5,467	0	10,277	0	.0	0	0	0	0	10,277
2033	3,389	158	4,083	0	7,631	0	0	0	0	0	0	7,631
2034	2,208	98	2,632	0	4,937	0	0	0	0	0	0	4,937
2035	2,108	90	2,497	0	4,695	0	0	0	0	0	0	4,695
2036	2,031	84	2,368	0	4,482	0	0	0	0	0	0	4,482
2037	1,962	77	2,237	0	4,276	0	0	0	0	0	0	4,276
2038	1,892	71	2,111	0	4,074	0	0	0	0	0	0	4,074
NOMINAL	161,729	11,604	122,775	0	296,107	83,096	0	0	0	16,359	99,455	196,652
NPV	58,480	4,551	42,637	0	105,668	55,138	0	0	0	10,655	65,793	39,875

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.606

D. NEIGHBORHOOD ENERGY SAVER PROGRAM

Program Start Date:

2007

Modifications proposed in 2010

Program Description

Progress Energy's Neighborhood Energy Saver program is a custom energy conservation

program designed to assist low-income families with escalating energy costs by making energy

efficiency improvements at their residence. Trained professional surveyors and installers

representing Progress Energy will offer low-income families in targeted neighborhoods a home

energy assessment followed by the installation of specified electric energy conservation

measures. While in the home, residents will be provided energy saving tips for improving and

sustaining household energy efficiency. The energy conservation measures installed and energy

efficiency education provided will be at no cost to the participants.

The Neighborhood Energy Saver program seeks to achieve the following goals:

• Conduct a home energy assessment to identify energy efficiency opportunities within the

customer's home

• Implement a comprehensive package of electric conservation measures to increase the

efficiency in the resident's home

Provide one-on-one customer education on energy efficiency techniques and energy

54

conservation measures

• Promote behavioral changes to assist customers in controlling their energy usage.

Policies and Procedures:

Progress Energy's Neighborhood Energy Saver program participation is based on the median income guidelines and minimum percentage of households within the Census Block Group meeting those guidelines as calculated from the 2000 and 2010 U.S. Census reports. In the absence of Census data that meets the afore mentioned guidelines, Progress Energy will utilize local municipality defined low-income neighborhood data. Additional requirements are as follows:

- The residence must be a residentially-metered customer in Progress Energy territory
- Customer must reside in a selected Progress Energy qualifying Census Block Group that meets the definition of a Low-income neighborhood as stated above
- Multi-family dwellings that meet the above definition, are located in the Neighborhood
 Energy Saver city, but not within the census block may also be eligible to participate in
 the Neighborhood Energy Saver program if they meet guidelines as presented in the
 Program Participation Standards.

Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions such as baseline or code revisions, updated measurement and valuation analysis, or technological advances.

Progress Energy is proposing to include the following measures with this program:

Compact Fluorescent Bulbs

This portion of the program will provide for the installation of a maximum of five (5) compact fluorescent lamps (CFL's) which are in use for an average of at least four (4) hours per day.

Refrigerator Coil Brush

This portion of the program will provide the customer with a coil brush to remove dust and debris from condenser coils to improve the refrigerator efficiency.

Refrigerator Thermometer

This measure will provide for the installation of one thermometer in the food compartment and one thermometer in the freezer of the refrigerator.

Change Filter Calendar

This portion of the program will provide each homeowner a Progress Energy magnetic calendar to help remind them to clean or change HVAC filter monthly.

Weatherization Measures

This portion of the program will provide weather stripping, door sweeps, caulk, foam sealant, and clear patch tape which will be used to reduce or stop air infiltration around doors, windows, and where pipes enter the home. Air infiltration reduction is significant to saving energy and customer comfort.

Water heater insulation wrap and insulation for water pipes

This portion of the program will furnish and install a hot water heater wrap and pipe insulation as identified by the Neighborhood Energy Saver program Home Energy Evaluation.

Water conservation shower head and faucet aerators

This portion of the program will provide a maximum of three (3) aerators and two (2) low flow showerheads per household

Water heater temperature check and adjustment

The portion of the program will provide a temperature check of the hot water heater and perform the turn down adjustment if the customer elects to do so

HVAC filters

This portion of the program will allow each customer to receive a one year supply of filters (12); one filter may be installed at time of evaluation if needed

Indoor wall thermometer

This portion of the program will provide the installation of one wall plate thermometer per home

HVAC winterization kit

This measure will provide for the installation of a winterization HVAC kit for wall/window AC units, if seasonably applicable. The resident will receive or have installed a maximum of three

(3) kits. The customer will be educated on the proper use and value of the weatherization kit as a method of stopping air infiltration in the home

Attic Insulation Upgrade

This portion of the program will upgrade the customer's insulation from R-0/4 to R-19 if required

HVAC Maintenance

This portion of the program requires performing basic maintenance on the indoor and outdoor components of the central air and heating unit

Window Film/Solar Screen

This portion of the program provides installing window film or solar screen on east, west and south oriented windows

Program Participation

Annual participation estimates for the Neighborhood Energy Saver program are shown in the following table:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants ⁽³⁾	Cumulative Penetration Level (%) (4)
2011	1,473,688	45,718	4,680	10.2%
2012	1,495,098	41,953	4,828	20.4%
2013	1,521,451	37,964	4,926	30.4%
2014	1,548,531	33,797	5,025	40.3%
2015	1,575,167	29,448	5,370	50.8%
2016	1,600,448	24,667	5,173	60.6%
2017	1,624,503	19,987	5,074	70.2%
2018	1,647,724	15,313	4,877	79.3%
2019	1,671,277	10,742	4,729	88.1%

The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan. Eligible customers represents the count of homes in Progress Energy service territory that are at or below program qualifying income levels based on current US Census block data with a 2% growth rate per year.

Number of participants represents the customers that Progress Energy expects to reach through direct offerings in each year. Cumulative penetration is the ratio of cumulative participants to the remaining eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and annual projected participation. The total projected program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

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Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1715	0.56	0.75	8,025,741	2,635	3,494
2012	1715	0.56	0.75	8,279,431	2,717	3,605
2013	1715	0.56	0.75	8,448,557	2,773	3,678
2014	1715	0.56	0.75	8,617,684	2,828	3,752
2015	1715	0.56	0.75	9,209,628	3,023	4,010
2016	1715	0.56	0.75	8,871,374	2,912	3,862
2017	1715	0.56	0.75	8,702,248	2,856	3,789
2018	1715	0.56	0.75	8,363,994	2,745	3,642
2019	1715	0.56	0,75	8,110,304	2.662	3,531

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1827	0.60	0.80	8,549,822	2,807	3,723
2012	1827	0.60	0.80	8,820,078	2,895	3,840
2013	1827	0.60	0.80	9,000,248	2,954	3,919
2014	1827	0.60	0.80	9,180,418	3,013	3,997
2015	1827	0.60	0.80	9,811,016	3,220	4,272
2016	1827	0.60	0.80	9,450,675	3,102	4,115
2017	1827	0.60	0.80	9,270,504	3,043	4,036
2018	1827	0.60	0.80	8,910,162	2,924	3,879
2019	1827	0.60	0.80	8,639,906	2,836	3,762

Impact Evaluation Plan

The Neighborhood Energy Saver program includes the installation of varied types of measures.

As such, the impact evaluation plan addresses interactive effects of multiple measures. In order

to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels.

Cost Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$69,352	\$90,095	-\$20,743	0.77
Participant	\$77,508	\$28,350	\$49,158	2.73
Total Resource Cost	\$69,352	\$40,937	\$28,415	1.69

PROGRAM Neighborhood Energy Saver - RIM

			BENEFITS					1	COSTS				
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)	(6) TOTAL	(7) INCREASED	(8) INCREASED	(9) UTILITY	(10)	(11)	(12)	(13)
	FUEL & O&M		GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP.	GEN, CAP.	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
YZEA D	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFIT
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	934	75	0	0	1,009	0	0	0	1,591	3,648	1,154	6,393	-5,384
2012	1,645	149	0	0	1,795	0	0	0	1,733	3,954	2,259	7,946	-6,151
2013	3,243	225	1,189	0	4,657	0	0	0	1,867	4,239	3,582	9,688	-5,031
2014	3,010	287	2,406	0	5,703	0	0	0	2,010	4,544	4,856	11,410	-5,707
2015	4,121	354	3,030	0	7,504	0	0	0	2,266	5,107	6,595	13,967	-6,463
2016	5,329	417	4,009	0	9,755	0	0	0	2,307	5,169	7,756	15,233	-5,478
2017	6,696	478	4,767	0	11,941	0	0	0	2,390	5,329	7,918	15,636	-3,696
2018	7,342	515	5,222	0	13,080	0	0	0	2,424	5,380	8,197	16,001	-2,921
2019	7,820	550	5,686	0	14,056	0	0	0	2,483	5,481	9,077	17,041	-2,985
2020	7,329	509	5,385	0	13,222	0	0	0	0	0	8,658	8,658	4,565
2021	6,430	447	4,818	0	11,694	0	0	0	0	0	8,134	8,134	3,560
2022	6,742	383	2,248	0	9,374	0	0	0	0	0	6,993	6,993	2,380
2023	6,173	336	3,248	0	9,756	0	0	0	0	0	6,091	6,091	3,664
2024	4,281	288	2,862	0	7,431	0	0	0	0	0	5,126	5,126	2,305
2025	3,398	240	2,362	0	5,999	0	0	0	0	0	4,111	4,111	1,888
2026	3,176	192	1,203	0	4,571	0	0	0	0	0	3,043	3,043	1,528
2027	2,176	164	1,813	0	4,153	0	0	0	0	0	2,463	2,463	1,690
2028	1,705	138	1,506	0	3,348	0	0	0	0	0	1,889	1,889	1,459
2029	1.678	101	1,294	0	3.072	0	0	0	0	0	1,198	1,198	1,875
2030	1,561	88	1.881	0	3,530	0	0	0	0	0	1,063	1,063	2,467
2031	1,358	75	1,658	0	3,091	0	0	0	0	0	914	914	2,177
2032	1.135	62	1.411	0	2.609	0	0	0	0	0	756	756	1,853
2033	881	48	1,125	0	2,054	Ö	0	o o	0	0	587	587	1,466
2034	634	35	826	0	1,494	0	0	0	0	0	412	412	1,083
2035	423	23	561	0	1.007	0	0	0	0	0	276	276	731
2036	214	11	287	0	512	0	0	0	0	Ö	139	139	373
2037	0	0	0	0	0	0	0	0	0	0	0	0	- 0
2037	0	0	0	0	0	0	0	0	0	0	0	0	0
OMINA		6,189	60,796	0	156,416	0	0	0	19,071	42,850	103,248	165,170	-8,754
	€.								1				
PV	40,496	2,910	25,946	0	69,352	0	0	0	12,587	28,350	49,158	90,095	-20,743

Utility Discount Rate = 8.48

Benefit Cost Ratio = 0.770

PROGRAM: Neighborhood Energy Saver - Participant

		BENI	EFTTS			COSTS		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SAVINGS IN		OTHER			PARTICIPANT'S		
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	BILL	TOTAL	NET
	BILL	PAYMENTS	BENEFITS	BENEFIIS	COST	INCREASE	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0
2011	1,154	3,648	0	4,802	3,648	0	3,648	1,154
2012	2,259	3,954	0	6,213	3,954	0	3,954	2,259
2013	3,582	4,239	0	7,821	4,239	0	4,239	3,582
2014	4,856	4,544	0	9,400	4,544	0	4,544	4,856
2015	6,595	5,107	0	11,701	5,107	0	5,107	6,595
2016	7,756	5,169	0	12,926	5,169	0	5,169	7,756
2017	7,918	5,329	0	13,247	5,329	0	5,329	7,918
2018	8,197	5,380	0	13,577	5,380	0	5,380	8,197
2019	9,077	5,481	0	14,558	5,481	0	5,481	9,077
2020	8,658	0	0	8,658	0	0	0	8,658
2021	8,134	0	0	8,134	0	0	0	8,134
2022	6.993	.0	0	6,993	0	0	0	6,993
2023	6,091	0	0	6,091	0	0	0	6,091
2024	5,126	0	0	5,126	0	0	0	5,126
2025	4,111	0	0	4,111	0	0	0	4,111
2026	3,043	0	0	3,043	0	0	0	3,043
2027	2,463	0	0	2,463	0	0	0	2,463
2028	1,889	0	0	1,889	0	0	0	1,889
2029	1,198	0	0	1,198	0	0	0	1,198
2030	1,063	0	0	1,063	0	0	0	1,063
2031	914	0	0	914	0	0	0	914
2032	756	0	0	756	0	0	0	756
2033	587	0	0	587	0	0	0	587
2034	412	0	0	412	0	0	0	412
2035	276	0	0	276	0	0	0	276
2036	139	0	0	139	0	0	0	139
2037	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0
OMINAL	103,248	42,850	0	146,098	42,850	0	42,850	103,248
νV	49,158	28,350	0	77,508	28,350	0	28,350	49,158

Utility Discount Rate = 8.48 Benefit Cost Ratio = 2.734

PROGRAM: Neighborhood Energy Saver - TRC

			BENEFT	rs_					COSTS				
	(1) TOTAL FUEL & O&M	(2) A VOIDED T&D CAP.	(3) A VOIDED GEN. CAP.	(4) OTHER PARTICIPANT'S	(5)	PA	(6) RTICIPANT'S	(7) TOTAL FUEL & O&M	(8) INCREA SED T&D CAP.	(9) INCREASED GEN, CAP.	(10) UTILITY PROGRAM	(11) TOTAL	(12) NET
	SA VINGS	COSTS	COSTS	BENEFITS	BENEFITS		COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)		\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0		0	0	0	0	0	0	0
2011	934	75	0	0	1,009		3,648	0	0	0	1,591	5,239	-4,230
2012	1,645	149	0	0	1,795		3,954	0	0	0	1,733	5,687	-3,892
2013	3,243	225	1,189	0	4,657		4,239	0	0	0	1,867	6,106	-1,449
2014	3,010	287	2,406	0	5,703		4,544	0	0	0	2,010	6,554	-851
2015	4,121	354	3,030	0	7,504		5,107	0	0	0	2,266	7,373	132
2016	5,329	417	4,009	0	9,755		5,169	0	0	0	2,307	7,476	2,278
2017	6,696	478	4.767	0	11,941		5,329	0	0	0.	2,390	7,718	4,223
2018	7,342	515	5,222	0	13,080		5,380	0	0	0	2,424	7,804	5,276
2019	7,820	550	5,686	0	14,056		5,481	0	0	0	2,483	7,964	6,092
2020	7,329	509	5,385	0	13,222		0	0	0	0	0	0	13,222
2021	6,430	447	4,818	0	11,694		0	0	0	0	0	0	11,694
2022	6,742	383	2,248	0	9,374		0	0	0	0	0	0	9,374
2023	6,173	336	3,248	0	9,756		0	0	0	0	0	0	9,756
2024	4,281	288	2,862	0	7,431		0	0	0	0	0	O	7,431
2025	3,398	240	2,362	0	5,999		0	0	0	0	0	0	5,999
2026	3,176	192	1,203	0	4,571		0	0	0	0	0	0	4,571
2027	2,176	164	1,813	0	4,153		0	0	.0	0	0	0	4,153
2028	1,705	138	1,506	0	3,348		0	0	0	0	0	0	3,348
2029	1,678	101	1,294	0	3,072		0	0	.0	0	0	0	3,072
2030	1,561	88	1,881	0	3,530		0	0	0	0	0	0	3,530
2031	1,358	75	1,658	0	3,091		0	0	0	0	0	0	3,091
2032	1,135	62	1,411	0	2,609		0	0	0	0	0	0	2,609
2033	881	48	1,125	0	2,054		0	0	0	0	0	0	2,054
2034	634	35	826	0	1,494		0	0	0	0	0	0	1,494
2035	423	23	561	0	1,007		0	0	0	0	0	0	1,007
2036	214	11	287	0	512		0	0	0	0	0	0	512
2037	O	0	0	0	0		0	0	0	0	0	0	0
2038	0	0	0	0	0		0	0	0	0	0	0	0
MINAL	89,430	6,189	60,796	0	156,416	- 1	42,850	0	0	0	19,071	61,922	94,494

Utility Discount Rate = 8.48

Benefit Cost Ratio = 1.694

E. LOW-INCOME WEATHERIZATION ASSISTANCE PROGRAM

Program Start Date:

2000

Program modified in 2006

Modifications proposed in 2010

Program Description

The Low-Income Weatherization Assistance program is designed to leverage working relationships with providers to integrate Demand Side Management measures and offer energy efficiency with an education component. The Low-income Weatherization Assistance program combines weatherization provider partnerships with energy education and energy efficiency improvements to benefit low-income families. The program seeks to meet the following goals:

- Integrate Progress Energy 's Low-income Weatherization Assistance program procedures
 with the Department of Community Affairs and local home improvement providers to
 deliver energy efficiency measures to low-income families
- Identify and educate contractors and low-income customers regarding energy saving opportunities to improve home energy efficiency
- Increase low-income families' participation in Progress Energy's Demand Side
 Management programs
- Educate low-income families on achievable, sustainable strategies to reduce individual energy bills

Policies and Procedures

The program provides incentives for attic insulation upgrades, duct testing and repair, reduced air infiltration, water heater wrap, HVAC maintenance, high efficiency heat pumps, high efficiency electric water heater, low flow showerheads, compact fluorescent light bulbs, faucet aerators, refrigerator coil brush, dedicated heat pump water heaters, window screen/film, reflective roof coating, window air conditioning replacement with window unit winterization kit, and a community energy education component.

The program eligibility requirements to qualify for participation are as follows:

- The residence must be a residentially-metered customer in Progress Energy territory
- Must meet Florida's weatherization and local home improvement provider low-income criteria, in addition to income requirements determined by the Department of Community Affairs (DCA)
- Homes must be greater than two years old
- A DCA approved provider or local provider's approved contractors must perform all work.

Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on

changes in market conditions, such as baseline or code revisions, updated measurement and valuation analysis, or technological advances.

Progress Energy is proposing to include the following measures with this program:

Attic Insulation Upgrade

This portion of the program encourages customers to add insulation to the ceiling area by paying a portion of the installed cost. The customer must have either whole house electric cooling or electric heating to be eligible for this program.

Duct Test and Repair

This portion of the program is designed to encourage eligible customers to improve their central duct system by reducing the air leakage rate. This is accomplished by performing a duct leakage test, then offering to repair the leakage that is discovered by the duct test. The home must have central ducted electric cooling and electric heat to participate in this measure.

Reduced Air Infiltration

The provider must demonstrate a minimum reduction of air infiltration into the home of 1500 cfm at 50 pascal's to receive an incentive. The home must not exceed ASHRAE Standard 62 for acceptable indoor air quality.

Water Heater Wrap

This portion of the program will provide and install a water heater wrap as identified in the Program Participation Standards.

High-Efficiency Electric Heat Pumps

For high efficiency electric heat pumps, Progress Energy will provide an incentive per unit. The specific incentive available is dependent upon the efficiency level of the unit installed and the type of electric heat the new equipment is replacing. In order to qualify for an incentive, both the air handler and the outdoor condensing unit shall be replaced, and both units shall be new.

High Efficiency Electric Water Heating

The high efficiency water heating portion of this program promotes technologies that heat water more efficiently than a standard electric water heater and save energy. The incentive depends on the type of technology being installed.

Heating and Air Conditioning Maintenance

To maximize efficiency an incentive will be provided for a heating & air conditioning contractor to perform service/tune-up maintenance on existing electric central heating and air conditioning systems.

Low Flow Showerhead - Aerators

This measure will improve energy efficiency for low-income customers in existing homes. Progress Energy will pay an incentive per showerhead for a maximum of two (2) per home, and an additional incentive per aerator for a maximum of three (3) per home.

Compact Fluorescent Light

This measure will help low-income customers reduce their energy costs by installing up to three (3) compact fluorescent lamps (CFLs) per home.

Refrigerator Coil Brush

This portion of the program will encourage low-income customers to clean the coils on their refrigerator. The local provider will demonstrate coil cleaning techniques and leave one brush with the customer for future use.

Window Film/Screen

The local provider will be responsible for meeting manufacturer's instructions and specifications, and installing this measure on west, southwest and northwest oriented windows only. Jalousie, double/triple pane, frosted/plastic windows and skylights are not eligible.

Roof Coating for Manufactured Homes

This portion of the program can lower cooling cost and extend roof life for manufactured homes by providing an incentive to install an ENERGY STAR® or Cool Roof Rating Council approved reflective roof coating product.

Window AC Replacement/Recycle with HVAC Window Unit Winterization Kit

This measure will provide an incentive for replacement/recycle of one window A/C unit per home. Customer will receive a HVAC window winterization kit. The window A/C unit to be replaced must be in operating condition and the provider must be sure the window A/C unit is removed from the premise and recycled appropriately.

Community Energy Connection

This part of the program will provide low-income residents with energy education training and interactive workstations that focus on assisting low-income families with developing achievable, sustainable strategies to reduce individual energy bills. Each attendee will receive an Energy Conservation Kit. The energy education training will provide a series of Community Energy Connection workshops in low-income communities, designed to partner with low-income providers. These educational workshops will include three stations: Energy Education Presentation, Social Service Agency Presentation, and Expo/Interactive Workstation. The interactive display station will consist of the following: A/C Thermostat, Lighting, Attic Insulation, Air Handler, and Refrigerator Coil Cleaning.

Program Participation

Annual participation estimates for the Low-income Weatherization Assistance program are shown in the following table:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Participants	Cumulative Penetration Level (%) ⁽⁴⁾
2011	1,473,688	1,011	506	50.0%
2012	1,495,098	1,026	513	50.0%
2013	1,521,451	1,044	522	50.0%
2014	1,548,531	1,062	531	50.0%
2015	1,575,167	1,081	541	50.0%
2016	1,600,448	1,098	549	50.0%
2017	1,624,503	1,115	557	50.0%
2018	1,647,724	1,131	565	50.0%
2019	1,671,277	1,147	573	50.0%

The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan.

Eligible customers is the count that State agencies expects to participate in low-income programs in PEF Area
Number of participants represents the eligible customers that Progress Energy expects to reach via partnership with State agencies

Cumulative penetration is the ratio of cumulative participants to the eligible customer pool

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables:

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1757	1.03	0.81	888,113	523	411
2012	2140	1.20	1.01	1,097,879	614	517
2013	2309	1:31	1.03	1,205,518	684	538
2014	2288	1.20	0.96	1,215,257	637	509
2015	2360	1.45	1.00	1,275,326	782	541
2016	2349	1.84	1.11	1,289,503	1,008	610
2017	2190	1.67	1.02	1,220,536	928	568
2018	2105	1.54	0.91	1,189,761	869	517
2019	2068	1.59	0.90	1,185,440	910	517

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1872	1.10	0.87	946,107	557	438
2012	2280	1.27	1.07	1,169,571	654	550
2013	2460	1.40	1.10	1,284,239	729	573
2014	2437	1.28	1.02	1,294,613	679	542
2015	2514	1.54	1.07	1,358,605	833	576
2016	2502	1.96	1.18	1,373,707	1,074	650
2017	2333	1.77	1.09	1,300,237	989	605
2018	2242	1.64	0.97	1,267,453	926	550
2019	2203	1.69	0.96	1,262,849	970	551

Impact Evaluation Plan

The Low income Weatherization program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio	
Rate Impact Measure	\$12,066	\$15,691	-\$3,625	0.77	
Participant	\$12,599	\$4,906	\$7,693	2.57	
Total Resource Cost	\$12,066	\$7,997	\$4,069	1.51	

PROGRAM: Low Income Weatherization Assistance - RIM

		-		BENEFITS		}				COSTS					
		(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)	(6) TOTAL	(7) INCREA SED	(8) INCREASED	(9) UTILITY	(10)	(11)	(12)	(13)	
		FUEL & O&M	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET	
		SA VINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFTIS	
1	YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2011	107	9	0	0	116	0	0	0	424	569	127	1,120	-1,004	
	2012	209	20	0	0	228	0	0	0	486	724	279	1,489	-1,261	
	2013	435	31	163	0	629	0	0	0	481	803	470	1,754	-1,126	
	2014	426	43	350	0	818	0	0	0	505	793	673	1,971	-1,152	
	2015	599	55	456	0	1,110	. 0	0	0	539	889	941	2,369	-1,259	
	2016	802	68	746	0	1,615	0	0	0	568	908	1,139	2,615	-1,000	
	2017	1,069	80	931	0	2,079	0	0	0	555	906	1,180	2,641	-562	
	2018	1,138	87	828	0	2,053	0	0	0	523	878	1,229	2,629	-576	
	2019	1,195	93	888	0	2,176	0	0	0	524	928	1,344	2,796	-621	
	2020	1,110	87	838	0	2,035	0	0	0	0	0	1,261	1,261	774	
	2021	1,003	81	786	0	1,870	0	0	0	0	0	1,219	1,219	651	
	2022	1,125	76	395	0	1,595	0	0	0	0	0	1,100	1,100	495	
	2023	1,075	70	599	0	1,744	0	0	0	0	0	998	998	745	
	2024	786	.65	568	0	1,418	0	0	0	0	- 0	895	895	523	
	2025	691	60	526	0	1,277	0	0	0	0	0	796	796	481	
	2026	744	54	303	0	1,101	0	0	0	0	0	669	669	432	
	2027	594	51	523	0	1,168	0	0	0	0	0	648	648	520	
	2028	565	48	504	0	1,117	0	0	0	0	0	614	614	502	
	2029	729	42	527	0	1,297	0	0	0	0	0	548	548	750	
	2030	651	35	736	0	1,422	0	0	0	0	.0	469	469	953	
	2031	534	28	614	0	1,176	0	0	0	0	0	379	379	796	
	2032	421	22	492	0	935	0	0	0	0	0	295	295	640	
	2033	277	14	337	0	628	0	0	0	0	0	193	193	435	
	2034	135	7	174	0	316	0	0	0	0	0	87	87	229	
	2035	88	5	117	0	210	0	0	0	0	0	58	58	152	
	2036	51	3	67	0	120	0	0	0	0	0	33	33	87	
	2037	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2038	0	0	0	0	0	0	0	0	0	0	0	0	0	
N	OMINAL	16,554	1,232	12,465	0	30,252	0	0	0	4,605	7,397	17,645	29,647	604	
N	PV	6,751	524	4,791	0	12,066	0	0	0	3,091	4,906	7,693	15,691	-3,625	

Utility Discount Rate = 8.48

Benefit Cost Ratio = 0.769

PROGRAM: Low Income Weatherization Assistance - Participant

		BENI	EFTIS			COSTS		
	(1) SAVINGS IN	(2)	(3) OTHER	(4)	(5)	(6) PARTICIPANT'S	(7)	(8)
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	BILL	TOTAL	NET
	BILL	PAYMENTS	BENEFITS	BENEFTIS	COST	INCREASE	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0
2011	127	569	0	696	569	0	569	127
2012	279	724	0	1,003	724	0	724	279
2013	470	803	0	1,274	803	0	803	470
2014	673	793	0	1,466	793	0	793	673
2015	941	889	0	1,829	889	0	889	941
2016	1,139	908	0	2,047	908	0	908	1,139
2017	1,180	906	0	2,086	906	0	906	1,180
2018	1,229	878	0	2,106	878	0	878	1,229
2019	1,344	928	0	2,272	928	0	928	1,344
2020	1,261	0	0	1,261	0	0	0	1,261
2021	1,219	0	0	1,219	0	0	0	1,219
2022	1,100	0	0	1,100	0	0	0	1,100
2023	998	0	0	998	0	0	0	998
2024	895	0	0	895	0	0	0	895
2025	796	0	0	796	0	0	0	796
2026	669	0	0	669	0	0	0	669
2027	648	0	0	648	0	0	0	648
2028	614	0	0	614	0	0	0	614
2029	548	0	0	548	0	0	0	548
2030	469	0	0	469	0	0	0	469
2031	379	0	0	379	0	0	0	379
2032	295	0	0	295	0	0	0	295
2033	193	0	0	193	0	0	0	193
2034	87	0	0	87	0	0	0	87
2035	58	0	0	58	0	0	0	58
2036	33	0	0	33	0	0	0	33
2037	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0
NOMINAL	17,645	7,397	0	25,042	7,397	0	7,397	17,645
NPV	7,693	4,906	0	12,599	4,906	0	4,906	7,693

Utility Discount Rate = 8.48
Benefit Cost Ratio = 2.568

PROGRAM: Low Income Weatherization Assistance - TRC

			BENEFT	TS				COSTS				
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4) OTHER	(5)	(6)	(7) TOTAL	(8) INCREASED	(9) INCREASED	(10) UTILITY	(11)	(12)
	FUEL & O&M	T&D CAP.	GEN, CAP.	PARTICIPANT'S	TOTAL	PARTICIPANT'S	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	TOTAL	NET
	SA VINGS	COSTS	COSTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	107	9	0	0	116	569	0	0	0	424	992	-877
2012	209	20	0	0	228	724	0	0	0	486	1,210	-981
2013	435	31	163	0	629	803	0	0	0	481	1,284	-655
2014	426	43	350	0	818	793	0	0	0	505	1,298	-479
2015	599	55	456	0	1,110	889	0	0	0	539	1,428	-318
2016	802	68	746	0	1,615	908	0	0	0	568	1,477	139
2017	1,069	80	931	0	2,079	906	0	0	0	555	1,462	618
2018	1,138	87	828	0	2,053	878	0	0	0	523	1,400	653
2019	1,195	93	888	0	2,176	928	0	0	. 0	524	1,452	724
2020	1,110	87	838	0	2,035	0	0	0	0	0	0	2,035
2021	1,003	81	786	.0	1,870	0	0	0	0	0	0	1,870
2022	1,125	76	395	0	1,595	0	0	0	0	0	0	1,595
2023	1,075	70	599	0	1,744	0	0	0	0	0	0	1,744
2024	786	65	568	0	1,418	0	0	0	0	0	0	1,418
2025	691	60	526	0	1,277	0	0	0	0	0	0	1,277
2026	744	54	303	0	1,101	0	0	0	0	0	0	1,101
2027	594	51	523	0	1,168	0	0	0	0	0	0	1,168
2028	565	48	504	0	1,117	0	0	0	0	0	0	1,117
2029	729	42	527	0	1,297	0	0	0	0	0	0	1,297
2030	651	35	736	0	1,422	0	0	0	0	0	0	1,422
2031	534	28	614	0	1,176	0	0	0	0	0	0	1,176
2032	421	22	492	0	935	0	0	0	0	0	0	935
2033	277	14	337	0	628	0	0	0	0	0	0	628
2034	135	7	174	0	316	0	0	0	0	0	0	316
2035	88	5	117	0	210	0	0	0	0	0	0	210
2036	51	3	67	0	120	0	0	0	0	0	0	120
2037	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	.0	0	0	0	0	0	0	0
MINAL	16,554	1,232	12,465	0	30,252	7,397	0	0	0	4,605	12,003	18,249
V	6,751	524	4,791	Ö	12,066	4,906	0	0	0	3,091	7.997	4.069

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.509

F. RESIDENTIAL ENERGY MANAGEMENT PROGRAM

Program Start Date:

1981

Program Modified in 1995, 2000, 2007

Modifications proposed in 2010

Program Description

Residential Energy Management is a voluntary customer program that allows Progress Energy to reduce peak demand and defer generation construction. Peak demand is reduced by interrupting service to selected electrical equipment with radio controlled switches installed on the customers' premises. These controlled interruptions are at Progress Energy's option during specified time periods and coincident with hours of peak demand.

Policies and Procedures

It continues to be cost-effective to add new participants to the Residential Year Round Energy Management (RSL-1) and Winter Only (RSL-2) Rate Schedules. Continuing the Residential Energy Management program will increase the summer and winter load control capabilities. In addition to increasing the program's winter effectiveness, the 100% strip control will continue to be offered to any new participants and existing participants requesting a change with heat pump equipment.

This program has grown to be one of the largest direct load control programs in the nation today.

Progress Energy will continue to offer this program to residential customers, but major

infrastructure maintenance procedures are required to maintain a reliable program. The current direct load control one-way communications and home appliance switching infrastructure that allows Progress Energy to load shed over 700 MW of winter peak demand is becoming obsolete due to the end-of-life of major components in the near future. Major infrastructure maintenance and system upgrades are necessary to continue to ensure the availability of the existing 700 MW of direct load control capacity and support additional capacity in the future.

Program Participation

Annual program participation estimates beginning in the year 2010 are shown in the table below. The estimates reflect continuing the year round program, maintaining a winter only option, 100% strip control, and adding new participants.

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	1,473,688	941,530	7,700	0.8%
2012	1,495,098	955,209	7,700	1.6%
2013	1,521,451	972,046	7,700	2.4%
2014	1,548,531	989,347	7,700	3.1%
2015	1,575,167	1,006,365	7,700	3.8%
2016	1,600,448	1,022,517	13,950	5.1%
2017	1,624,503	1,037,885	13,950	6.4%
2018	1,647,724	1,052,721	13,950	7.6%
2019	1,671,277	1,067,769	9,750	8.4%

^{1.} The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan.

^{2.} Estimate of the eligible customers are based on customers that are not presently on Energy Management and have electric heat.

^{3.} New participants of winter only or year round Energy Management Schedule.

^{4.} Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

The total program savings shown in the following tables reflect the demand and energy savings associated with the new program participants projected for the Residential Energy Management Program.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	173,183	2.14	1.11	Distriction of the control of the co	16,478	8,547
2012		2.14	1.11		16,478	8,547
2013		2.14	1.11	attemperature street and a supplemental and the	16,478	8,547
2014	73.0	2.14	1.11	60, -	16,478	8,547
2015	1 - 1	2.14	1.11	24212546	16,478	8,547
2016		2.14	1.11		29,853	15,485
2017		2.14	1.11		29,853	15,485
2018		2.14	1.11	V 94	29,853	15,485
2019		2.14	1.11		20,865	10,823

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	. Order Industria	2.28	1.18		17,554	9,105
2012	-	2.28	1.18	CONTRACTOR OF	17,554	9,105
2013	-	2.28	1.18	-	17,554	9,105
2014	-	2.28	1.18	-	17,554	9,105
2015		2.28	1.18	-	17,554	9,105
2016		2.28	1.18	-	31,802	16,496
2017		2.28	1.18	-	31,802	16,496
2018		2.28	1.18	-	31,802	16,496
2019		2.28	1.18	-	22,227	11,529

Impact Evaluation Plan

Progress Energy is conducting a residential end-use metering study that will be used to estimate the appliance level and duty-cycle impacts of residential load control. This end-use metering data will be used to perform engineering and statistical analysis to calculate the impacts of the program.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

	NPV Benefits	NPV Costs \$	NPV Net	
Cost-Effectiveness Test	\$(000)	(000)	Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$950,529	\$810,825	\$139,704	1.17
Participant	\$263,082	\$0	\$263,082	9999
Total Resource Cost	\$950,529	\$531,381	\$419,148	1.79

PROGRAM: Residential Energy Management - RIM

			BENEFITS							COSTS				
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)	(6) TOTAL	INC	(7) REA SED	(8) INCREA SED	(9) UTILITY	(10)	(11)	(12)	
	FUEL & O&M		GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&	D CAP.	GEN. CAP.	PROGRA M	INCENTIVE	REVENUE	TOTAL	
	SA VINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	C	OSTS	COSTS	COSTS	PAYMENTS	LOSSES	COSTS	
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$	(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	
2010		0	24,095	0	42,163	0		0	0	14,663	20,385	783	35,830	
2011	16,995	0	24,864	0	41,859	0		0	0	15,594	20,770	888	37,252	
2012	20,049	0	25,849	0	45,898	0		0	0	20,678	21,155	956	42,789	
2013	20,247	0	37,713	0	57,961	0		0	0	51,400	21,540	1,270	74,210	
2014	10,580	0	38,662	0	49,242	748		0	0	86,236	20,996	829	108,808	
2015	0	O	64,114	0	64,114	14,256		0	0	116,400	21,975	1,492	154,123	
2016	0	0	74,989	0	74,989	3,262		0	0	109,266	22,672	1,601	136,800	
2017	41,029	0	138,858	0	179,887	0		0	0	103,536	23,370	1,495	128,400	
2018	18,217	0	83,569	0	101,786	0		0	0	87,234	24,067	1,302	112,602	
2019	12,907	0	87,782	0	100,689	0		0	0	71,723	24,765	1,391	97,878	
2020	11,535	0	90,312	0	101,848	0		0	0	44,303	24,765	1,458	70,525	
2021	1,999	0	92,926	0	94,925	0		0	0	41,690	24,765	1,884	68,338	
2022	27,501	0	64,346	0	91,847	0		0	0	40,952	24,765	1,555	67,271	
2023	36,212	0	65,153	0	101,365	0		0	0	37,514	24,765	1,725	64,004	
2024	7,724	0	90,921	0	98,644	0		0	0	32,173	24,765	1,843	58,780	
2025	1,994	0	93,165	0	95,159	0		0	0	25,873	24,765	1,819	52,457	
2026	26,493	0	73,667	0	100,160	0		0	0	18,648	24,765	1,866	45,278	
2027	10,415	0	112,704	0	123,119	0		0	0	15,418	24,765	1,888	42,070	
2028	8,654	0	116,169	0	124,822	0		0	0	13,784	24,765	1,934	40,483	
2029	16,099	0	104,848	0	120,947	0		0	0	11,632	24,765	2,069	38,466	
2030	25,618	0	107,591	0	133,209	0		0	0	12,569	24,765	2,576	39,910	
2031	25,406	0	111,895	0	137,300	0		0	0	14,355	24,765	2,361	41,481	
2032	24,979	0	116,370	0	141,349	0		0	0	18,485	24,765	2,365	45,614	
2033	23,109	0	121,026	0	144,135	0		0	0	17,853	24,765	2,770	45,388	
2034	25,401	0	125,866	0	151,267	0		0	0	18,327	24,765	2,357	45,448	
2035	21,525	0	130,901	0	152,425	0		0	0	18,906	24,765	2,675	46,346	
2036	19,424	0	136,137	0	155,560	0		0	0	18,082	24,765	2,990	45,837	
2037	20,426	0	141,582	0	162,008	0		0	0	40,207	24,765	2,683	67,655	
MINAL	504,317	0	2,519,066	0	3,023,383	18,265		0	0	1,128,540	687,455	51,640	1,885,90	
V	105 672	0	764.957	0	050 520	11.000					232.002		51 15 4 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	
V	185,672	0	764,857	0	950,529	11,090		0	0	520,291	263,082	16,362	810,825	

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.172

PROGRAM: Residential Energy Management - Participant

-	BENEFITS	(2)	(2)		COSTS			
	(1) SA VINGS IN	(2)	(3) OTHER	(4)	(5)	(6)	(7)	(8)
-	PARTICIPANT'S	NCENTRE		TOTAL		PARTICIPANT'S	TOTAL	NET BENEFITS
2.8	BILL	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	BILL	TOTAL	TO
YEA R		PA YMENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	PARTICIPANT
	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	\$20,385	0	20,385	0	0	0	20,385
2011	0	\$20,770	0	20,770	0	0	0	20,770
2012	0	\$21,155	0	21,155	0	0	0	21,155
2013	0	\$21,540	0	21,540	0	0	0	21,540
2014	0	\$20,996	0	20,996	0	0	0	20,996
2015	0	\$21,975	0	21,975	0	0	0	21,975
2016	0	\$22,672	0	22,672	0	0	0	22,672
2017	0	\$23,370	0	23,370	0	0	0	23,370
2018	0	\$24,067	0	24,067	0	0	0	24,067
2019	0	\$24,765	0	24,765	0	0	0	24,765
2020	0	\$24,765	0	24,765	0	0	0	24,765
2021	0	\$24,765	0	24,765	0	0	0	24,765
2022	O	\$24,765	0	24,765	0	0	0	24,765
2023	0 ,	\$24,765	0	24,765	0	0	0	24,765
2024	0	\$24,765	0	24,765	0	0	0	24,765
2025	0	\$24,765	0	24,765	0	0	0	24,765
2026	0	\$24,765	0	24,765	0	0	0	24,765
2027	()	\$24,765	0	24,765	0	0	0	24,765
2028	0	\$24,765	0	24,765	0	0	0	24,765
2029	0	\$24,765	0	24,765	0	0	0	24,765
2030	0	\$24,765	0	24,765	0	0	0	24,765
2031	0	\$24,765	0	24,765	0	0	0	24,765
2032	0	\$24,765	0	24,765	0	0	0	24,765
2033	0	\$24,765	0	24,765	0	0	0	24,765
2034	0	\$24,765	0	24,765	0	0	0	24,765
2035	0	\$24,765	0	24,765	0	0	0	24,765
2036	0	\$24,765	0	24,765	0	0	0	24,765
2037	0	\$24,765	0	24,765	0	0	0	24,765
MINAL	0	687,455	0	687,455	0	0	0	687,455
	0	263,082	0	263,082	0	0	0	263,082

Utility Discount Rate = 8.48

Benefit Cost Ratio = 9999

PROGRAM: Residential Energy Management - TRC

2.0			BENEFITS			1.2.2.			COSTS				
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)	(6) TOTAL	(7) INCREA SED	(8) INCREA SED	(9) UTILITY	(10)	(11)	(12)	(13)
	FUEL & O&M	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	FUEL & O&N	T&D CAP.	GEN. CAP.	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PAYMENTS	LOSSES	COSTS	BENEFIT
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	18,068	0	24,095	0	42,163	0	0	0	14,663	0	0	14,663	27,500
2011	16,995	0	24,864	0	41,859	0		0	15,594	0	0	15,594	26,265
2012	20,049	0	25,849	0	45,898	0	0	0	20,678	0	0	20,678	25,220
2013	20,247	0	37,713	0	57,961	0	0	0	51,400	0	0	51,400	6,561
2014	10,580	0	38,662	0	49,242	748	0	0	86,236	0	0	86,984	(37,742)
2015	0	0	64,114	0	64,114	14,256	. 0	0	116,400	0	0	130,656	(66,542)
2016		0	74,989	0	74,989	3,262	0	0	109,266	0	0	112,528	(37,539)
2017	41,029	0	138,858	0	179,887	0	0	0	103,536	0	0	103,536	76,351
2018	18,217	0	83,569	0	101,786	0	0	0	87,234	0	0	87,234	14,553
2019	12,907	0	87,782	0	100,689	0	0	0	71,723	0	0	71,723	28,966
2020	11,535	0	90,312	0	101,848	0	0	0	44,303	0	0	44,303	57,545
2021	1,999	0	92,926	0	94,925	0	0	0	41,690	0	0	41,690	53,235
2022	27,501	0	64,346	0	91,847	0	0	0	40,952	0	0	40,952	50,895
2023	36,212	0	65,153	0	101,365	0	0	0	37,514	0	0	37,514	63,851
2024	7,724	0	90,921	0	98,644	0	0	0	32,173	0	0	32,173	66,471
2025	1,994	0	93,165	0	95,159	0	0	0	25,873	0	0	25,873	69,285
2026	26,493	0	73,667	0	100,160	0	0	0	18,648	0	0	18,648	81,512
2027	10,415	0	112,704	0	123,119	0	0	0	15,418	0	0	15,418	107,702
2028	8,654	0	116,169	0	124,822	0	0	0	13,784	0	0	13,784	111,038
2029	16,099	0	104,848	0	120,947	0	0	0	11,632	0	0	11,632	109,315
2030	25,618	0	107,591	0	133,209	0	0	0	12,569	0	0	12,569	120,639
2031	25,406	0	111,895	0	137,300	0	0	0	14,355	0	0	14,355	122,945
2032	24,979	0	116,370	0	141,349	0	0	0	18,485	0	0	18,485	122,864
2033	23,109	0	121,026	0	144,135	0	0	0	17,853	0	0	17,853	126,281
2034	25,401	0	125,866	0	151,267	0	0	0	18,327	0	0	18,327	132,940
2035	21,525	0	130,901	0	152,425	0	0	0	18,906	0	0	18,906	133,519
2036	19,424	0	136,137	0	155,560	0	0	0	18,082	0	0	18,082	137,478
2037	20,426	0	141,582	0	162,008	0	0	0	40,207	0	0	40,207	121,801
MINAL	504,317	0	2,519,066	0	3,023,383	0 18,265	0	0	1,128,540	0	0	1,146,805 0	1,876,578
j	185,672	0	764,857	0	950,529	0 11,090	0	0	520,291	0	1 11 0	531,381 0	419,148

Utility Discount Rate = 8.48 Benefit Cost Ratio = 1.789

G. TECHNICAL POTENTIAL PROGRAM

Program Start Date:

Proposed to start in 2011

Program Description

The Technical Potential program will target the residential customer segment and promote measures that have a payback period of two years or less. This program is designed to meet a technical potential goal of 1528 GWh by the end of 2019. The measures within this program include but are not limited to the following:

- Installation of water heater blanket
- HVAC annual maintenance
- Installation of solar window screens
- Electronically commutated motors as part of HVAC replacement 16 SEER or higher
- Pool pump replacement variable speed
- Residential lighting (CFLs)
- Refrigerator and freezer recycling
- Air filter replacement

Progress Energy will continue to pursue measures that will focus on providing savings opportunities for customers who may be unable to make capital investments, but have a desire to

focus on low-cost measures or practices that will enable them to achieve their savings goals. Technical Potential is an unprecedented program, and Progress Energy will employ multiple strategies to support goal achievement including: education, traditional incentives and retail partnerships. Also, since many of the measures in the Technical Potential program share the same general target audience as the Home Energy Improvement program, these measures will be marketed through the Home Energy Improvement Program and other programs as appropriate.

Education

Our educational outreach efforts will consist of multiple delivery channels and will reach all customer segments.

Community Education

• Progress Energy will expand its educational efforts in the local communities. Through local outreach PEF will work with homeowners' associations to provide energy-efficiency workshops. Additionally, the Company will provide energy-related news articles to insert into community newsletters. Technical Potential measures will be included as recommendations during the Home Energy Check, as appropriate. Additionally, community competitions will be developed to raise awareness of energy efficiency among neighbors.

Education Through Behavior Modification

 Progress Energy proposes to incorporate personalized feedback into customer education to motivate customers to adopt behaviors that will support energy efficiency. By using behavior modification tools like those offered by OPOWER and other such vendors, PEF will help the customer better understand their energy usage and help them to see how their energy consumption compares to other similar customers, set personal goals for energy reduction, and obtain feedback on their progress. Studies have shown that similar tools have supported customer's energy usage reductions by about 2%. Energy reductions achieved through these tools will be counted within this program.

• The incorporation of personalized feedback in this tool increases the success of the behavior change. These tools provide customers the opportunity to compare their energy usage to neighbors with similar demographics and similar home size and make informed energy choices. This program gives Progress Energy the opportunity to expand our reach with energy efficiency to all customers segments including low-income and rental communities. All customer groups will be able to take advantage of this education and benefit from it.

Education of Low-Income Customers

Low-income customers are typically the hardest to motivate to participate in energy efficiency measures due to cost barriers and lack of access to energy education information. Progress Energy has successfully utilized its Neighborhood Energy Saver program as a means to weatherize the homes of thousands of low-income Progress Energy customers. Tied in with the weatherization efforts, Progress Energy has also offered in-home energy education at the time of the Neighborhood Energy Saver visit to teach customers about regularly changing their air filters, using CFL bulbs, and the

benefits of insulating their water heaters, as well as many other energy-saving behaviors. To increase our educational outreach efforts, Progress Energy has developed an educational video that highlights simple behavioral changes customers can make to save energy throughout the home. This video will be shown at weatherization agency offices throughout the service territory. In addition, PEF will be conducting energy education workshops that will include seminars, product demonstrations and question and answer sessions for customer to learn about cost-effective ways to save energy now and in the future.

Student Education

Progress Energy will reach out to local schools and youth organizations to expose students to no-cost and low-cost energy-efficient behaviors and improvements that they and their families can do in their homes. As part of this effort, Progress Energy will expand the Home Energy Check for Kids program to incorporate all grade levels. In addition, PEF has started to pilot an after-school program with a YMCA in Clearwater, Florida where high school students will develop a "green club" with the goal of mentoring younger students about energy efficiency. Progress Energy's employees will act as mentors, assist with energy education for the club and participate as guest speakers at student events. Our goal is to expand this program to other YMCAs and youth organizations through our service territory.

Education of External Influencers

Developing partnerships with external parties that help influence our customers is important to ensuring that the energy efficiency message is heard. Contractors, builders, retailers, realtors and local businesses are just a few of those external parties who act as an extension of Progress Energy to help educate our customers about being energy efficient. These partnerships will include training seminars, follow-up communications including newsletters and email blasts, and the development of co-op and joint advertising strategies to ensure the greatest impact.

General Customer Education

Progress Energy will utilize campaigns like the Save-the-Watts themed campaign to educate and inform customers about the energy efficiency programs that PEF offers. Progress Energy will provide online content and mass media messaging to ensure customers have the tools they need to make informed decisions regarding energy efficiency.

Traditional Incentives

Educating our customers will be a strategy that is utilized throughout the life of the program, but in order to move the market and achieve Progress Energy's GWh reduction goal, PEF will also employ the use of traditional customer incentives.

Customer Incentives

As most product adoption bell curves indicate, there is a steep incline in participation early in the lifecycle of the program (participants are called 'early adopters'), a point where participation flattens out ('early and late majority'), followed by a steady decline ('laggards').

Incentives will be offered on measures at some point during the lifecycle of the program, and will be used to drive participation in the measures that may require more motivation due to higher initial out-of-pocket cost to the customer, such as: appliance recycling, HVAC replacement and pool pump replacement.

Contractor Incentives

Progress Energy will also offer financial incentives for contractors who install measures as part of this program. The incentives serve to motivate the contractor to make energy efficient recommendations and encourage them to document installation of the measure for verification.

Retail Partnerships

Many of the measures that make up the Technical Potential program lend themselves naturally to partnerships with retailers.

• Do-it-yourself Measures

Measures such as air filters, water heater blankets and CFL bulbs can be purchased and installed directly by the customer. By developing partnerships with retailers, Progress Energy can ensure that customers who are in stores and in a buying mode receive the education they need about these products. Through ongoing contractor education, PEF will ensure store staff is educated about energy efficiency measures so that they can act as an extension of Progress Energy and answer questions that customers may have about the energy-saving benefits of the measures.

Financial Incentives

Progress Energy will offer financial incentives to the customers when they purchase qualifying measures from the retail store. These incentives will be administered through buy-downs (where Progress Energy pays a portion of the item cost so that it will have a lower price in the store) as well as mail-in rebates where customers will receive money back once proof of purchase has been verified.

Marketing Tactics

Progress Energy will employ a variety of standard marketing strategies to drive customer participation in the Technical Potential program. Some of these marketing tactics include:

- Mass Media
- Market Segmentation
- Direct Marketing

Event Marketing

Implementation Approach

To meet the Commission's aggressive implementation of goal achievement, Progress Energy will attempt to deploy strategies and expenditures to support this achievement. PEF will also continue to research and monitor emerging technologies (like LED lighting) that may offer greater energy savings for our customers versus what is currently available in the market.

The general timeline for the implementation of the Technical Potential Program is noted below:

- Build upon existing contractor relationships and develop relationships for new measures
- Execute contracts with 3rd party vendors for CFL and Appliance Recycling measure rollout and develop turnkey retail partnerships
- Leverage existing infrastructure, relationships, and established baselines to increase adoption
- Continuously monitor the market for the best adaptation strategies and mix of incentives
 and education to move the market to the next level

Policies and Procedures

The program seeks to meet the following overall goals:

- To accelerate the adoption of energy efficiency measures with a short payback period
- Develop cost-effective marketing strategies and strategies that will deliver participation and energy reduction goals
- Obtain energy reductions that are significant and measurable
- Expand the portfolio of energy efficiency offerings for existing residential homes and new home construction

The program eligibility requirements to qualify for participation are as follows:

- The residence must be in Progress Energy's service area and be an active residentiallymetered Progress Energy customer.
- Existing or newly constructed residential single-family, multifamily or manufactured homes.
- Specific eligibility requirements for each item installed in this program will be presented
 in the Program Participation Standards and are subject to revision based on changes in
 market conditions such as baseline, code revisions, updated measure and valuation
 analysis, or technological advances.

The program will encourage customers to implement the following program measures:

Water Heater Blanket

This measure encourages the purchase and installation of water heater blankets on electric waters heaters. This measure will be promoted through the consumer and retail channels in order to generate awareness and participation.

HVAC Annual Maintenance

This measure encourages the annual cleaning of outdoor coils in the HVAC system in order to ensure the system will continue to function as efficiently as possible. Education directly to the customers and through the contractor channels will be used to generate awareness of and participation in this measure.

Installation of Solar Window Screens

Solar window screens are a more affordable alternative to window film and provide the customer with many of the same benefits. This measure will be promoted through education to both consumers and through the contractor channels to generate awareness and participation.

Electronically Commutated Motors as part of HVAC Replacement 16 SEER or Higher

Electronically Commutated Motors are the standard air handler motor on the higher efficiency HVAC systems (typically 16 SEER or higher) and offer significant energy savings compared to other motor types. This measure will be promoted through education to both consumers and through the contractor channels to generate awareness and participation.

Pool Pump Replacement (variable speed)

This measure will encourage customers to upgrade to a variable speed pool pump. Progress Energy will educate consumers, contractors, pool builders, and pool maintenance service companies about the energy savings of variable speed pool pump motors.

Residential Lighting (CFLs)

The residential lighting measure will provide incentives and marketing support through retailers to encourage greater Progress Energy customer adoption of CFL lighting. Progress Energy will partner with various manufacturers and retailers across its service territory to offer a wide selection of products to customers.

Refrigerator and freezer recycling

The refrigerator and freezer recycling measure are designed to remove less efficient refrigerators and freezers that are operating within residences across the Progress Energy service territory. The program will include scheduling and free appliance pick-up at the customer's location, transportation to a recycling facility, and recovery and recycling of appliance materials.

Air filter replacement

Progress Energy will encourage customers to regularly replace air filters on central HVAC systems that have standard air filtration. Continuous education and awareness marketing will play a key role in encouraging customers to adopt this energy-saving behavior.

Program Participation

Annual participation estimates for the Technical Potential program are shown in the following table

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	1,473,688	1,473,688	140,096	9.5%
2012	1,495,098	1,495,098	156,207	19.8%
2013	1,521,451	1,521,451	164,901	30.3%
2014	1,548,531	1,548,531	187,585	41.9%
2015	1,575,167	1,575,167	191,691	53.4%
2016	1,600,448	1,600,448	203,381	65.2%
2017	1,624,503	1,624,503	192,831	76.1%
2018	1,647,724	1,647,724	211,794	87.9%
2019	1,671,277	1,671,277	222,791	100.0%

The total number of customers is the forecast of residential customers in Progress Energy's 2009 Ten Year Site Plan.

The entire residential class is eligible for participation
Number of participants represents the customers that Progress Energy expects to reach through this program annually

Cumulative penetration is the ratio of cumulative participants to the eligible customer pool

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure, based on each measure's per customer savings and annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1139	0.14	0.32	159,502,452	19,992	44,548
2012	1021	0.12	0.27	159,413,022	18,580	41,469
2013	966	0.11	0.24	159,314,367	17,653	40,243
2014	849	0.08	0.20	159,284,578	15,453	37,231
2015	830	0.08	0.19	159,130,399	15,817	37,089
2016	785	0.08	0.18	159,579,461	15,697	36,251
2017	828	0.09	0.20	159,579,461	17,714	38,226
2018	753	0.08	0.17	159,579,461	16,861	36,289
2019	716	0.07	0.16	159,579,461	15,864	34,786

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1213	0.15	0.34	169,917,962	21,297	47,457
2012	1087	0.13	0.28	169,822,692	19,793	44,177
2013	1029	0.11	0.26	169,717,595	18,805	42,871
2014	905	0.09	0.21	169,685,860	16,462	39,662
2015	884	0.09	0.21	169,521,614	16,850	39,511
2016	836	0.08	0.19	170,000,000	16,722	38,618
2017	882	0.10	0.21	170,000,000	18,871	40,722
2018	803	0.08	0.18	170,000,000	17,962	38,658
2019	763	0.08	0.17	170,000,000	16,899	37,058

Impact Evaluation Plan

Progress Energy will measure participation in the program through the use of data from our third party partners as well as market surveys.

V. COMMERCIAL/INDUSTRIAL CONSERVATION PROGRAMS

Progress Energy's Demand Side Management Plan includes ten (10) commercial/industrial programs:

- Business Energy Check Commercial/industrial energy audits
- Better Business program for existing facilities
- Commercial/Industrial New Construction program for new construction facilities
- Business Energy Saver low-income energy conservation program
- Commercial Green Building New Construction new facilities program to achieve optimal energy efficiency
- Innovation Incentive program of custom measures
- Standby Generation Rate Tariff GSLM-2
- Interruptible Service Rate Tariff IS-2
- Curtailable Service Rate Tariff CS-2
- Business Energy Response program designed to reduce system peak demand and increase renewable energy generation on the Progress Energy grid.

BUSINESS ENERGY CHECK PROGRAM A.

Program Start Date:

1995

Modifications proposed in 2010

Program Description

The Business Energy Check is a commercial energy audit program that provides commercial

customers with an analysis of their energy use as well as recommendations on how they can save

on their electricity bill. The audit focuses on education and encouraging customers to implement

minimal cost energy-saving practices and measures. The audit also provides Progress Energy the

opportunity to promote cost effective measures in customers' facilities. The Business Energy

Check program serves as the foundation for participation in other commercial, industrial and

100

governmental Demand Side Management programs.

The Business Energy Check program offers the following types of energy audits:

Type 1: Free Walk-Through

Type 2: Paid Walk-Through

Type 3: Customer Online (Internet Option)

Type 4: Customer Phone Assisted.

Policies and Procedures

All commercial, industrial, and governmental customers of Progress Energy are eligible to receive any of the above mentioned audit types conducted on commercial metered buildings located in Progress Energy's service territory. There is no charge for Type 1, Type 3 and Type 4 audits, while there is a nominal customer charge for the Type 2 energy analysis. When a customer requests a Business Energy Check, they will be given the option of any of the above offered audit types. Progress Energy reserves the option to work with other agencies and/or companies as an extension of the Business Energy Check service. The specific details on the procedures for each type of audit will be presented in the Program Participation Standards.

Customers participating in all audit types will be provided with sustainable educational and behavioral energy saving examples of easily installed energy conservation measures to reduce energy consumption. The program promotes continued customer involvement by demonstrating sustainable and measureable energy reduction in the business' energy consumption by the implementation of low-cost energy conservation measures.

The customer will receive a Commercial Energy Efficiency Kit via the following methods:

- At the time of the onsite Business Energy Check
- Through the mail following completion of the online or phone assisted audit

Progress Energy is proposing to include the following measures with this program:

Energy Conservation Measure Kit

Lighting

This measure will provide customers with up to three (3) compact fluorescent light bulbs to upgrade an existing incandescent fixture located in their facility. This demonstration will encourage additional lighting energy conservation measures changes within the facility.

Indoor room Thermometer

This measure will provide one room thermometer per business. This measure will establish a reference point for customers to select an energy savings setting for the HVAC system thermostat.

Refrigerator Thermometer

This measure will provide one thermometer in the food or freezer compartment of the refrigerator. This measure will establish a reference point for customers to select an energy savings setting for the refrigeration system thermostat.

Power Conservation Strip

This measure will provide a power conservation strip to reduce idle energy use when appliances are not in operation. The ease of installation and the demonstration of immediate energy reduction will encourage additional customer participation.

Change Filter Calendar

This portion of the program will provide each business a Progress Energy magnetic calendar to help remind them to clean or change the HVAC filter monthly to facilitate optimal HVAC performance.

Additional Kit Components

The energy conservation measure kit will also include educational tools that will assist the business owner in making decisions about their energy use. Examples of these educational tools include, but are not limited to the following:

Energy Use Data Sheet

A common appliance and equipment energy use data sheet will be provided to the customer. This will demonstrate to the customer examples where energy is being utilized within their facility, encouraging the customer to make behavior changes to reduce energy consumption.

Facility Setback Procedure

This measure will provide a suggested setback process for relative facilities. The process can be used as behavior modification training for employees or as a poster located at entrances and exits of the facility. It will provide a point of reference to remind employees to choose the best energy saving setting for the facility when shutting down.

Program Participation

Annual participation estimates for the Business Energy Check program are shown in the following table:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	170,886	2,261	1.3%
2012	175,147	172,886	2,330	2.7%
2013	178,542	173,951	2,424	4.0%
2014	182,030	177,276	2,545	5.4%
2015	185,461	180,492	2,723	6.8%
2016	188,717	183,449	2,859	8.3%
2017	191,817	186,235	2,945	9.7%
2018	194,809	189,005	3,034	11.2%
2019	197,848	191,869	3,064	12.6%

The total number of customers is the forecast of commercial/industrial customers in Progress Energy's 2009 Ten Year Site Plan.

All commercial, industrial and governmental rate classes are eligible to participate.
 Number of program participants represents the participants projected.
 Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	575	0.14	0.34	1,300,500	321	773
2012	586	0.14	0.35	1,365,525	337	812
2013	590	0.15	0.35	1,430,550	353	850
2014	583	0.14	0.35	1,482,570	366	881
2015	352	0.08	0.14	958,230	211	386
2016	329	0.07	0.13	941,850	207	380
2017	311	0.07	0.13	917,280	202	370
2018	297	0.07	0.12	900,900	198	363
2019	294	0.06	0.12	900,900	198	363

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	607	0.15	0.36	1,371,637	338	815
2012	618	0.15	0.37	1,440,219	355	856
2013	622	0.15	0.37	1,508,801	372	897
2014	614	0.15	0.37	1,563,667	386	929
2015	371	0.08	0.15	1,010,645	222	407
2016	347	0.08	0.14	993,369	218	400
2017	329	0.07	0.13	967,455	213	390
2018	313	0.07	0.13	950,179	209	383
2019	310	0.07	0.12	950,179	209	383

Impact Evaluation Plan

The range of possible recommendations resulting from the audit, and the inclusion of both technological and behavioral recommendations suggests the need to carefully survey participants to determine what specific actions have been undertaken due to the completed audit. Initially, the

use of site-specific engineering estimates is likely to be the most cost-effective method ofestimating program impacts, although the use of statistical analysis technique may also be considered, depending on the participation levels actually achieved.

B. BETTER BUSINESS PROGRAM

Program Start Date:

1995

Program modified 2000, 2005, 2006 and 2007

Modifications proposed in 2010

Program Description

The Better Business program is designed for existing Commercial, Industrial and Governmental customers who want to retrofit with high efficiency improvements. All business customers are eligible for this program. The Better Business program builds on customer awareness, utilizing the various audit types, contractor participation, and Progress Energy promotion to educate customers on cost effective measures relevant to their businesses.

The program seeks to meet the following overall goals:

- Provide the market place with a cost-effective comprehensive program portfolio of measures across all building types
- Improve customer energy savings and demand reduction through the installation of energy efficient equipment and thermal envelope upgrades
- Obtain energy and demand reductions that are significant, accurate and measurable

 Educate the commercial retrofit market about best practices, innovative technologies and opportunities to participate in other non-Progress Energy incentives for managing energy consumption

Policies and Procedures

The general eligibility requirements are as follows:

- Must have been influenced by one of Progress Energy's educational opportunities
- The facility must be a commercially metered customer in Progress Energy service territory.

Commercial multi-family is defined as commercially metered accounts of multi-family residential apartments or condominiums, or assisted living residential apartment units. Any multi-family residential dwellings that are metered (referred to as "Domestic/Commercial") shall be eligible to participate in this program and will be provided the more appropriate residential energy efficiency kit in lieu of the commercial kit.

Progress Energy reserves the right to inspect the installation of measures and equipment prior to issuing any incentive payments.

Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions such as baseline or code revisions, updated measurement and valuation analysis, or technological advances.

Progress Energy is proposing to include the following measures with this program:

HVAC Equipment & Heat Pump Water Heaters

The HVAC equipment component of Better Business provides customers with information on high efficiency HVAC equipment and financial incentives for the purchase of high efficiency unitary heat pumps and air conditioners including heat pump water heaters, hybrid desiccant and geothermal units, thermal energy storage systems, package terminal heat pumps and package terminal air conditioners, water-cooled chillers, air-cooled chillers, EMS Chiller Optimization, and high efficiency straight cool air conditioners 14 to 19+ SEER. The Better Business HVAC measures also provide PEF customers with a one-time incentive to maintain/recommission and/or repair their current rooftop package DX units. The incentives will be based on a per unit basis. PTAC/PTHP coil cleaning is also a one-time incentive to stimulate the annual maintenance of customer's equipment. Hotel AC sensors for controlling HVAC systems during unoccupied periods in hotel rooms will be offered as a per room incentive. Variable Speed Drive controls and Variable Speed Drives for Chiller and Cooling Tower Pump incentives will also be offered under this program.

Energy Recovery Ventilation / Demand Control Ventilation / Heat Pipes / Exhaust Hood Optimization

The program promotes the installation of high efficiency energy recovery ventilation units in the conditioned air stream for customers using electric cooling and heating. These units are capable of removing over 70% of the sensible heat and over 60% of the latent heat when properly sized and installed. To qualify for Progress Energy's incentive, the energy recovery ventilation must

meet qualifications outlined in the Program Participation Standards. Demand Control Ventilation will provide incentives for the installation of Demand Control Ventilation using C02 sensors. Demand Control Ventilation saves energy by automatically adjusting building ventilation rates in real time based on occupancy. Heat Pipe technology for pre-conditioning fresh air will also be incented and must meet the Program Participation Standards. Exhaust hood controls for varying ventilation will be included as an incentive.

Duct Leakage Test and Repair

This portion of the program is designed to promote energy efficiency through improved duct system sealing. This program component applies to HVAC equipment and systems that are no larger than 65,000 Btu/h. A customer must have electric heating and a centrally-ducted cooling system, either air conditioning or heat pump, to be eligible for this program.

Efficient Indoor lighting

This measure will provide customers with an incentive to upgrade their lighting systems to an approved lighting technology. The following technologies will be included: Premium T-8's and T-5's, occupancy sensors, ceramic metal halides, LED display lighting, Induction/Cold cathode, CFL lamps with integral ballast, and CFL hardwire fixtures. The Program Participation Standards will outline the incentive adjustments due to code changes.

Ceiling Insulation Upgrade

This portion of the program encourages customers to add insulation to the conditioned ceiling area by paying for a portion of the installed cost. The facility must meet the Program Participation Standard requirements in order to qualify for this measure.

Cool Roof / Green Roof/Roof Insulation

The cool roof measure will provide customers with an incentive to install an approved "cool roof" providing the facility has electric cooling. Customers must meet the specifications for solar reflectance and reliability, having initial reflectance as outlined in the Program Participation Standards. The green roof measure will provide an incentive for customers to install an approved green roof on their facility. The roof insulation measure encourages customers to add insulation to the conditioned roof area.

Efficient Compressed Air System

This measure will provide an incentive to encourage business customers to utilize a proactive approach to increase the efficiency of compressed air systems. The customer must provide a preand post-analysis of the system in order to be eligible for incentives.

Efficient Motors

This measure promotes the installation of certain high efficiency polyphase motors through a simple incentive structure based on the motor size and a specified \$/hp. The specific incentive amount will be a function of the motor size and efficiency.

Window Film / Solar Screen

This measure provides an incentive to install window film or solar screen on windows having east, west, and south exposures. The qualifying facilities and requirements are outlined in the Program Participation Standards.

Refrigeration

This measure provides an incentive to install energy efficient devices to reduce energy consumption of refrigeration equipment. The eligible devices include vending machine controls, and high efficiency ice makers.

Building Commissioning

This measure provides an incentive to customers for conducting whole building commissioning.

The requirement and incentives will be outlined in the Program Participation Standards.

Incentive Levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in the market conditions, such as baseline or code revisions, updated measures and valuation analysis or technological advances.

Program Participation

Annual participation estimates for the Better Business program are shown in the following table.

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2011	170,886	170,886	4,094	2.4%
2012	175,147	175,147	4,411	4.9%
2013	178,542	178,542	2,962	6.4%
2014	182,030	182,030	2,297	7.6%
2015	185,461	185,461	1,927	8.5%
2016	188,717	188,717	1,414	9.1%
2017	191,817	191,817	1,171	9.5%
2018	194,809	194,809	1,361	10.1%
2019	197,848	197,848	1,561	10.7%

The total number of customers is the forecast of Commercial/Industrial customers in Progress Energy's 2009 Ten Year Site Plan.

All Commercial, Industrial and Governmental rate classes are eligible to participate.

Number of program participants represents the measure participants projected.

Cumulative penetration is the ratio of cumulative measure participants to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	6019	0.89	2.12	24,640,060	3,649	8,672
2012	6156	0.89	2.16	27,152,324	3,935	9,523
2013	6230	0.88	2.18	18,452,581	2,621	6,452
2014	6503	0.89	2.26	14,937,795	2,044	5,202
2015	6679	0.90	2.32	12,870,384	1,732	4,471
2016	6681	0.90	2.32	9,446,403	1,270	3,281
2017	6680	0.90	2.32	7,822,499	1,052	2,715
2018	6678	0.90	2.32	9,089,310	1,222	3,155
2019	6676	0.90	2.32	10,421,059	1,400	3,617

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	6348	0.94	2.23	25,987,872	3,849	9,146
2012	6492	0.94	2.28	28,637,556	4,150	10,044
2013	6571	0.93	2.30	19,461,938	2,765	6,805
2014	6859	0.94	2.39	15,754,892	2,156	5,487
2015	7044	0.95	2.45	13,574,394	1,827	4,716
2016	7046	0.95	2.45	9,963,122	1,339	3,460
2017	7046	0.95	2.45	8,250,390	1,110	2,863
2018	7044	0.95	2.45	9,586,496	1,289	3,328
2019	7041	0.95	2.44	10,991,091	1,477	3,815

Impact Evaluation Plan

The Better Business program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels. These analyses are supported by end-use metering data where feasible.

Cost Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$135,407	\$158,076	-\$22,669	0.86
Participant	\$139,582	\$33,617	\$105,964	4.15
Total Resource Cost	\$135,407	\$52,111	\$83,296	2.6

PROGRAM: Better Business - RIM

	****		BENEFITS						COSTS				
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)	(6) TOTAL	(7) INCREASED	(8) INCREASED	(9) UTILITY	(10)	(11)	(12)	(13)
	FUEL & O&M		GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PA YMENTS	LOSSES	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	2,790	147	0	0	2,937	0	0	0	4,510	9,893	3,084	17,487	-14,550
2012	5,165	307	0	0	5,472	0	0	0	5,333	11,755	6,309	23,397	-17,925
2013	8,824	413	2,728	0	11,965	0	0	0	3,893	8,585	9,007	21,485	-9,520
2014	7,818	497	5,181	0	13,496	0 =	0	0	3,364	7,454	11,363	22,181	-8,685
2015	9,813	569	6,038	0	16,419	0	0	0	3,081	6,855	14,314	24,250	-7,831
2016	11,197	604	6,705	0	18,506	0	0	0	2,406	5,295	15,099	22,800	-4,294
2017	14,373	633	5,046	0	20,053	0	0	0	2,112	4,591	13,823	20,526	-473
2018	13,756	676	8,501	0	22,933	0	0	0	2,601	5,610	14,157	22,368	565
2019	15,027	731	9,392	0	25,150	0	0	0	3,156	6,767	16,060	25,983	-833
2020	15,052	729	9,557	0	25,337	0	0	0	0	0	16,460	16,460	8,877
2021	14,814	708	9,481	0	25,003	0	0	0	0	0	17,364	17,364	7,640
2022	17,318	686	5,019	0	23,023	0	0	0	0	0	16,996	16,996	6,027
2023	18,065	669	8,180	0	26,915	0	0	0	0	0	17,037	17,037	9,878
2024	15,260	655	8,364	0	24,279	0	0	0	0	0	17,080	17,080	7,199
2025	15,225	644	8,359	0	24,227	0	0	0	0	0	17,227	17,227	7,000
2026	15,309	535	4,575	0	20,420	0	0	0	0	0	14,673	14,673	5,747
2027	10,662	416	6,420	0	17,499	0	0	0	0	0	11,697	11,697	5,801
2028	8,744	331	5,212	0	14,287	0	0	0	0	0	9,530	9,530	4,757
2029	7,932	257	2,453	0	10,642	0	0	0	0	0	7,633	7,633	3,009
2030	6,515	199	3,169	0	9,883	0	0	0	0	0	6,073	6,073	3,810
2031	5,141	151	2,496	0	7,788	0	0	0	0	0	4,743	4,743	3,044
2032	3,885	110	1,885	0	5,879	0	0	0	0	0	3,555	3,555	2,324
2033	2,411	65	1,148	0	3,623	0	0	0	0	0	2,207	2,207	1,417
2034	644	15	253	0	912	0	0	0	0	0	613	613	298
2035	561	12	210	0	783	0	0	0	0	0	535	535	248
2036	505	10	178	0	693	0	0	0	0	0	476	476	217
2037	451	8	152	0	611	0	-0	0	0	0	430	430	182
2038	386	6	118	0	510	0	0	0	0	0	368	368	142
NOMINAL	247,637	10,784	120,823	0	379,245	0	0	0	30,456	66,804	267,912	365,172	14,072
NPV	88,732	4,143	42,532	0	135,407	0	0	0	18,494	40,621	98,961	158,076	-22,669
						Utility Discount		8.48					

0.857

PROGRAM: Better Business - Participant

		BENEF	TTS			COSTS		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SAVINGS IN		OTHER		F	ARTICIPANTS	3	NET BENEFIT:
	PARTICIPANT'	SINCENTIVEP	ARTICIPANT'S	TOTAL	PARTICIPANT'S	BILL	TOTAL	то
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	PARTICIPANT
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0
2011	3,084	9,893	0	12,976	8,185	0	8,185	4,791
2012	6,309	11,755	0	18,064	9,728	0	9,728	8,336
2013	9,007	8,585	0	17,592	7,106	0	7,106	10,485
2014	11,363	7,454	0	18,816	6,170	0	6,170	12,647
2015	14,314	6,855	0	21,169	5,678	0	5,678	15,491
2016	15,099	5,295	0	20,394	4,384	0	4,384	16,010
2017	13,823	4,591	0	18,414	3,797	0	3,797	14,616
2018	14,157	5,610	0	19,767	4,640	0	4,640	15,127
2019	16,060	6,767	0	22,827	5,595	0	5,595	17,233
2020	16,460	0	0	16,460	0	0	0	16,460
2021	17,364	0	0	17,364	0	0	0	17,364
2022	16,996	0	0	16,996	0	0	0	16,996
2023	17,037	0	0	17,037	0	0	0	17,037
2024	17,080	0	0	17,080	0	0	0	17,080
2025	17,227	0	0	17,227	0	0	0	17,227
2026	14,673	0	0	14,673	0	0	0	14,673
2027	11,697	0	0	11,697	0	0	0	11,697
2028	9,530	0	0	9,530	0	0	0	9,530
2029	7,633	0	0	7,633	0	0	0	7,633
2030	6,073	0	0	6,073	0	0	0	6,073
2031	4,743	0	0	4,743	0	0	0	4,743
2032	3,555	0	0	3,555	0	0	0	3,555
2033	2,207	0	()	2,207	0	0	0	2,207
2034	613	0	0	613	0	0	0	613
2035	535	0	0	535	0	0	0	535
2036	476	0	0	476	0	0	0	476
2037	430	0	0	430	0	0	0	430
2038	368	0	0	368	0	0	0	368
IOMINAL	267,912	66,804	0	334,716	55,283	0	55,283	279,433
NP V	98,961	40,621	0	139,582	33,617	0	33,617	105,964

8.48 **4.152**

PROGRAM: Better Business - TRC

			BENEFTI	8					COSTS				
	(1)	(2)	(3)	(4)	(5)		(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL	AVOIDED	AVOIDED	OTHER				TOTAL	INCREASEI	DINCREASEL	UTILITY		
				PARTICIPANT	TOTAL	PAI	RTICIPANT	SFUEL & O&N	T&D CAP.	GEN. CAP.	PROGRAM	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	BENEFITS		COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFTIS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)		\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	O	0	0	0	0		0	0	0	0	0	0	0
2011	2,790	147	0	0	2,937		8,185	0	0	0	4,510	12,696	-9,758
2012	5,165	307	0	0	5,472		9,728	0	0	0	5,333	15,061	-9,589
2013	8,824	413	2,728	0	11,965		7,106	0	0	0	3,893	11,000	965
2014	7,818	497	5,181	0	13,496		6,170	0	0	0	3,364	9,534	3,962
2015	9,813	569	6,038	0	16,419		5,678	0	0	0	3,081	8,759	7,661
2016	11,197	604	6,705	0	18,506		4,384	0	0	0	2,406	6,790	11,716
2017	14,373	633	5,046	0	20,053		3,797	0	0	.0	2,112	5,909	14,144
2018	13,756	676	8,501	0	22,933		4,640	0	0	0	2,601	7,241	15,692
2019	15,027	731	9,392	0	25,150		5,595	0	0	0	3,156	8,750	16,400
2020	15,052	729	9,557	0	25,337		0	0	0	.0	0	0	25,337
2021	14,814	708	9,481	0	25,003		0	0	0	0	0	0	25,003
2022	17,318	686	5,019	0	23,023		0	0	0	0	0	0	23,023
2023	18,065	669	8,180	0	26,915		0	0	0	0	0	0	26,915
2024	15,260	655	8,364	0	24,279		0	0	0	0	0	0	24,279
2025	15,225	644	8,359	0	24,227		0	0	0	0	0	0	24,227
2026	15,309	535	4,575	0	20,420		0	0	0	0	0	0	20,420
2027	10,662	416	6,420	0	17,499		0	0	0	0	0	0	17,499
2028	8,744	331	5,212	0	14,287		0	0	0	0	0	0	14.287
2029	7,932	257	2,453	0	10,642		0	0	0	0	0	0	10,642
2030	6,515	199	3,169	0	9,883		0	0	0	0	0	0	9,883
2031	5,141	151	2,496	0	7,788		0	0	0	0	0	0	7,788
2032	3,885	110	1,885	0	5,879		0	0	0	0	0	0	5,879
2033	2,411	65	1,148	0	3,623		0	0	0	0	0	0	3,623
2034	644	1.5	253	0	912		0	0	0	0	0	0	912
2035	561	12	210	0	783		0	0	0	0	0	0	783
2036	505	10	178	0	693		0	0	0	0	0	0	693
2037	451	8	152	0	611		0	0	0	0	0	0	611
2038	386	6	118	0	510		0	0	0	0	0	0	510
OMINAL	247,637	10,784	120,823	0	379,245		55,283	0	0	0	30,456	85,740	293,505
PV	88,732	4,143	42,532	0	135,407		33,617	0	0	0	18,494	52,111	83,296

Utility Discount Rate:

8.48 2.598

Benefit Cost Ratio:

C. COMMERCIAL/INDUSTRIAL NEW CONSTRUCTION PROGRAM

Program Start Date:

1995

Program modified in 2000, 2005, 2006 and 2007

Modifications proposed in 2010

Program Description

The Commercial/Industrial New Construction program is designed to improve the energy efficient construction of commercial buildings.

The program seeks to meet the following overall goals:

- Provide a cost-effective, comprehensive program portfolio of measures across all building types
- Educate the commercial new construction industry about energy efficient commercial building design
- Evaluate and recommend the most cost-effective energy efficient building envelope and equipment measures for the new construction market
- Obtain energy and demand impacts that are significant, accurate, and measurable
- Provide customers with current information of innovative technologies for managing energy consumption to maximize participation.

Policies and Procedures

The general eligibility requirements are as follows:

- Must have been influenced by one of Progress Energy's educational opportunities
- Equipment and measures must be installed in facilities that are commercially metered in Progress Energy service territory
- Progress Energy reserves the right to inspect the installation of measures and equipment prior to issuing any incentive payments
- The owner/builder or manufacturer must meet the requirements listed in the Program Participation Standards and comply with all state, local and federal codes

Incentive Levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions such as baseline or code revisions, updated measures, and valuation analysis or technological advances.

Progress Energy is proposing to include the following measures with this program:

HVAC Equipment

The HVAC equipment component of Commercial/Industrial New Construction provides customers with information on high efficiency HVAC equipment and financial incentives for the purchase of high efficiency unitary heat pumps and air conditioners, hybrid desiccant and geothermal units, high efficient straight cool air conditioners, thermal energy storage, package terminal heat pumps, and water-cooled and air-cooled chillers. The incentive is calculated for each unit based on the KW difference between the high efficiency unit and the program-specified baseline efficiency. Variable Speed Drive controls and Variable Speed Drives for Chiller and Cooling Tower Pumps incentives will also be offered under this program.

Energy Recovery Ventilation / Demand Control Ventilation / Heat Pipes

The program promotes the installation of high efficiency energy recovery ventilation units in the conditioned air stream for customers using electric cooling and heating. These units are capable of removing over 70% of the sensible heat and over 60% of the latent heat when properly sized and installed. To qualify for Progress Energy's incentive, the energy recovery ventilation must meet Program Participation Standards qualifications. Demand Control Ventilation will provide incentives for the installation of Demand Control Ventilation using *C02* sensors. Demand Control Ventilation saves energy by automatically adjusting building ventilation rates in real time based on occupancy. An incentive will be offered for Heat Pipe technology for preconditioning fresh air and must meet the Program Participation Standards. Exhaust hood controls for varying ventilation will be included as an incentive.

Cool Roof / Green Roof/Roof Insulation

The cool roof measure will provide customers with an incentive to install an approved "cool roof" providing the facility has electric cooling. Customers must meet the specifications for solar reflectance and reliability, having initial reflectance as outlined in the Program Participation Standards. The green roof measure will provide an incentive for customers to install an approved green roof on their facility. The roof insulation measure encourages customers to add insulation to the conditioned roof area.

Efficient Indoor lighting

This measure will provide customers with an incentive to install lighting systems which are above code. The following technologies will be included: Premium T-8's and T-5's, occupancy sensors, ceramic metal halides, LED display lighting and Induction/Cold cathode. The Program Participation Standards will outline the incentive adjustments due to code changes.

Window Film / Solar Screen

This measure promotes the purchase of windows that meet Progress Energy requirements for window film or solar screen on windows having east, west, and south exposures. The qualifying facilities and requirements are outlined in the Program Participation Standards.

Refrigeration

This measure provides an incentive to install energy efficient devices to reduce energy consumption of refrigeration equipment. These devices include vending machine controls and high efficiency ice makers.

Building Commissioning

This measure provides an incentive to customers for conducting whole building commissioning.

The requirement and incentives will be outlined in the Participation Standards.

Efficient Motors

This measure promotes the installation of certain high efficiency polyphase motors through a simple incentive structure based on the motor size and a specified \$/hp. The specific incentive amount will be a function of the motor size and efficiency.

Program Participation

Annual participation estimates for the Commercial/Industrial New Construction program are shown in the following table.

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	3,653	145	4.0%
2012	175,147	4,261	147	3.7%
2013	178,542	3,395	148	3.9%
2014	182,030	3,488	150	4.0%
2015	185,461	3,431	151	4.1%
2016	188,717	3,256	153	4.2%
2017	191,817	3,100	154	4.3%
2018	194,809	2,992	156	4.4%
2019	197,848	3,039	157	4.4%

^{1.} The total number of customers is the forecast of commercial/industrial customers in Progress Energy's 2009 Ten Year Site Plan.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

^{2.} All commercial, industrial and governmental rate class customers who build new metered facilities in a given year are eligible to

^{3.} Number of program participants represents the measure participants projected.

^{4.} Cumulative penetration is the ratio of cumulative measure participants to the accumulated eligible customer pool.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	22,968	3.68	9.04	3,334,521	535	1,312
2012	23,257	3.73	9.15	3,410,216	547	1,342
2013	23,032	5.22	9.50	3,411,006	772	1,408
2014	23,052	5.21	9.51	3,448,168	780	1,423
2015	21,092	5.00	8.95	3,186,500	755	1,352
2016	20,207	4.86	8.64	3,083,342	741	1,318
2017	19,245	4.69	8.29	2,965,934	722	1,278
2018	18,694	4.58	8.09	2,909,900	712	1,259
2019	17,943	4.38	7.76	2,820,817	689	1,219

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	24,224	3.89	9.53	3,516,920	564	1,384
2012	24,529	3.93	9.65	3,596,755	577	1,415
2013	24,291	5.50	10.02	3,597,588	815	1,485
2014	24,313	5.50	10.03	3,636,782	822	1,501
2015	22,245	5.27	9.44	3,360,802	797	1,426
2016	21,312	5.12	9.11	3,252,001	782	1,390
2017	20,298	4.94	8.74	3,128,170	762	1,348
2018	19,717	4.83	8.53	3,069,072	751	1,327
2019	18,924	4.62	8.18	2,975,115	727	1,286

Impact Evaluation Plan

The Commercial/Industrial New Construction program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels. These analyses are supported by end-use metering data, where feasible.

Cost Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$28,376	\$36,607	-\$8,232	0.78
Participant	\$32,117	\$13,738	\$18,379	2.34
Total Resource Cost	\$28,376	\$18,228	\$10,148	1.56

PROGRAM: Commercial/Industrial New Construction - RIM

	4		BENEFITS						COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	TOTAL	A VOIDED	A VOIDED			TOTAL	INCREASED	INCREASED	UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRA M	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PA YMENTS	LOSSES	COSTS	BENEFIT
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	384	21	0	0	405	0	0	0	685	1,205	417	2,307	-1,903
2012	684	42	0	0	726	0	0	0	744	1,619	822	3,185	-2,459
2013	1,305	64	411	0	1,781	0	0	0	816	2,094	1,307	4,217	-2,436
2014	1,278	86	869	.0	2,234	0	0	0	873	2,634	1,826	5,333	-3,099
2015	1,730	107	1,095	0	2,931	0	0	0	901	2,967	2,469	6,337	-3,406
2016	2,171	127	1,355	0	3,654	0	0	0	935	3,042	2,872	6,849	-3,196
2017	3,054	147	1,117	0	4,319	0	0	0	969	3,113	2,858	6,940	-2,622
2018	3,060	165	1,982	0	5,207	0	0	0	1,015	3,230	3,063	7,307	-2,100
2019	3,407	183	2,241	0	5,830	0	0	0	1,041	3,292	3,544	7,876	-2,046
2020	3,412	183	2,278	0	5,873	0	0	0	0	0	3,622	3,622	2,251
2021	3,250	172	2,189	0	5,611	0	0	0	0	0	3,714	3,714	1,898
2022	3,716	162	1,125	. 0	5,003	0	0	0	0	0	3,548	3,548	1,455
2023	3,728	152	1,755	0	5,635	0	0	0	0	0	3,421	3,421	2,214
2024	2,978	141	1,703	0	4,821	0	0	0	0	0	3,276	3,276	1,545
2025	2,812	130	1,600	0	4,542	0	0	0	0	0	3,132	3,132	1,410
2026	3,009	115	927	0	4,050	0	0	0	0	0	2,823	2,823	1,227
2027	2,310	99	1,445	0	3,854	0	0	0	0	0	2,501	2,501	1,353
2028	2,010	84	1,251	0	3,345	0	0	0	0	0	2,168	2,168	1,177
2029	1,934	69	624	0	2,627	0	0	0	0	0	1,832	1,832	795
2030	1,874	63	964	0	2,901	0	0	0	0	0	1,704	1,704	1,197
2031	1,626	54	855	0	2,534	0	0	0	0	0	1,456	1,456	1,078
2032	1.393	46	754	0	2,193	0	0	0	0	0	1,227	1,227	966
2033	1,136	37	630	0	1,802	0	0	0	0	0	989	989	812
2034	857	28	496	0	1,380	0	0	0	0	0	735	735	644
2035	705	22	412	0	1,139	0	0	0	0	0	601	601	538
2036	551	16	321	0	888	0	0	0	0	0	461	461	427
2037	381	11	224	0	616	0	0	0	0	0	317	317	299
2038	201	6	121	0	328	0	0	0	0	0	165	165	162
OMINAL	54,950	2,531	28,745	0	86,227	0	0	0	7,978	23,197	56,868	88,044	-1,817
PV	18,120	900	9.355	0	28,376	0	0	0	4,490	12,661	19,456	36,607	-8,232

8.48 0.775

PROGRAM: Commercial/Industrial New Construction - Participant

				BENI	EFITS			COSTS		
			(1) SA VINGS IN PARTICIPANT'S BILL	(2) INCENTIVE PAYMENTS	(3) OTHER PARTICIPANT'S BENEFITS	(4) TOTAL BENEFITS	(5) PARTICIPANT'S COST	(6) PARTICIPANT'S BILL INCREASE	(7) TOTAL COSTS	(8) NET BENEFITS TO PARTICIPANTS
Y	YEA R	4	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
	2010		0	0	0	0	0	0	0	0
	2011		417	1,205	0	1,622	2,186	0	2,186	-564
	2012		822	1,619	0	2,441	2,297	0	2,297	144
	2013		1,307	2,094	0	3,401	2,568	0	2,568	833
	2014		1,826	2,634	0	4,460	2,704	0	2,704	1,756
	2015		2,469	2,967	0	5,436	2,753	0	2,753	2,683
	2016		2,872	3,042	0	5,914	2,823	0	2,823	3,091
	2017		2,858	3,113	0	5,972	2,891	0	2,891	3,080
	2018		3,063	3,230	0	6,293	3,001	0	3,001	3,292
	2019		3,544	3,292	0	6,836	3,059	0	3,059	3,777
	2020		3,622	0	0	3,622	0	0	0	3,622
	2021		3,714	0	0	3,714	0	0	0	3,714
	2022		3,548	0	0	3,548	0	0	0	3,548
	2023		3,421	0	0	3,421	0	0	0	3,421
	2024		3,276	0	0	3,276	0	0	0	3,276
	2025		3,132	0	0	3,132	0	0	0	3,132
	2026		2,823	0	0	2,823	0	0	0	2,823
	2027		2,501	0	0	2,501	0	0	0	2,501
	2028		2,168	0	0	2,168	0	0	0	2,168
	2029		1,832	0	0	1,832	0	0	0	1,832
	2030		1,704	0	0	1,704	0	0	0	1,704
	2031		1,456	0	0	1,456	0	0	0	1,456
	2032		1,227	0	0	1,227	0	0	0	1,227
	2033		989	0	0	989	0	0	0	989
	2034		735	0	0	735	0	0	0	735
	2035		601	0	0	601	0	0	0	601
	2036		461	0	0	461	0	0	0	461
	2037		317	0	0	317	0	0	0	317
	2038		165	0	0	165	0	0	0	165
NOMI	INAL		56,868	23,197		80,066	24,282		24,282	55,784
NPV			19,456	12,661		32,117	13,738		13,738	18,379

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PROGRAM: Commercial/Industrial New Construction - TRC

			BENEFI	IS		COSTS						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL	A VOIDED	A VOIDED	OTHER			TOTAL	INCREASED	INCREASED	UTILITY		
	FUEL & O&M	T&D CAP	GEN, CAP.	PARTICIPANT	TOTAL	PARTICIPANT'S	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	TOTAL	NET
	SA VINGS	COSTS	COSTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFTIS
YEA R	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	384	21	0	0	405	2,186	0	0	0	685	2,871	-2,466
2012	684	42	0	0	726	2,297	0	0	0	744	3,041	-2,315
2013	1,305	64	411	0	1,781	2,568	0	0	0	816	3,383	-1,602
2014	1,278	86	869	0	2,234	2,704	0	0	0	873	3,577	-1,343
2015	1,730	107	1,095	0	2,931	2,753	0	0	0	901	3,654	-723
2016	2,171	127	1,355	0	3,654	2,823	0	0	0	935	3,758	-105
2017	3,054	147	1,117	0	4,319	2,891	0	0	0	969	3,860	458
2018	3,060	165	1,982	0	5,207	3,001	0	0	0	1,015	4,015	1,192
2019	3,407	183	2,241	0	5,830	3,059	0	0	0	1,041	4,099	1,731
2020	3,412	183	2,278	0	5,873	0	0	0	0	0	0	5,873
2021	3,250	172	2,189	0	5,611	0	0	0	0	0	0	5,611
2022	3,716	162	1,125	0	5,003	0	0	0	0	.0	0	5,003
2023	3,728	152	1,755	0	5,635	0	0	0	0	0	0	5,635
2024	2,978	141	1,703	0	4,821	0	0	0	0	0	0	4,821
2025	2,812	130	1,600	0	4,542	0	0	0	0	0	0	4,542
2026	3,009	115	927	0	4,050	0	0	0	0	0	0	4,050
2027	2,310	99	1,445	0	3,854	0	0	0	0	0	0	3,854
2028	2,010	84	1,251	0	3,345	0	0	0	0	0	0	3,345
2029	1,934	69	624	0	2,627	0	0	0	0	0	0	2,627
2030	1,874	63	964	0	2,901	0	0	0	0	0	0	2,901
2031	1,626	54	855	0	2,534	0	0	0	0	0	0	2,534
2032	1,393	46	754	0	2,193	0	0	0	0	0	0	2,193
2033	1,136	37	630	0	1,802	0	0	0	0	0	0	1,802
2034	857	28	496	0	1,380	0	0	0	0	0	0	1,380
2035	705	22	412	0	1,139	0	0	0	0	0	0	1,139
2036	551	16	321	0	888	0	0	0	0	0	0	888
2037	381	11	224	0	616	0	0	0	0	0	0	616
2038	201	6	121	0	328	0	0	0	0	0	0	328
NOMINAL	54,950	2,531	28,745	0	86,227	24,282	0	0	0	7,978	32,260	53,967
NPV	18,120	900	9,355	0	28,376	13,738	0	0	0	4,490	18,228	10,148

8.48 1.557

D. BUSINESS ENERGY SAVER PROGRAM

Program Start Date:

Proposed to start in 2011

Program Description

The Business Energy Saver program is designed to encourage and educate business customers

located in low-income areas by demonstration and installation of sustainable energy conservation

measures to help control and reduce energy consumption within their business. The business

must be located within the surrounding area of the Progress Energy qualifying Census Block

Group that meets the definition of a low-income neighborhood. Trained, professional surveyors

and installers representing Progress Energy will offer businesses an energy assessment followed

by the installation of specified electric energy conservation measures. While in the business, the

owner will be provided energy saving tips for improving and sustaining energy efficiency. The

energy conservation measures installed and energy efficiency education provided will be at no

cost to the participants.

The Business Energy Saver program seeks to achieve the following goals:

Conduct an energy assessment to identify energy efficiency opportunities in the business

• Implement a comprehensive package of electric energy conservation measures to increase

the business' energy efficiency and lower energy consumption

• Provide one-on-one customer education on energy efficiency techniques and the

installation of energy conservation measures to create an immediate measurable and

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sustainable energy reduction in their business

 Promote behavioral changes that will help businesses in targeted areas to more effectively control their energy consumption over time

Policies and Procedures

The program eligibility requirements to qualify for participation are as follows:

- The business must be a Progress Energy metered customer within Progress Energy service territory
- Business must be in a selected Progress Energy qualifying Census Block Group which meets the definition of a low-income neighborhood and surrounding area
- National and Chain Accounts are not eligible for participation in the Business Energy Saver program
- All installations must be accessible for verification by a Progress Energy representative
- A State of Florida General Licensed Contractor selected and approved by Progress
 Energy must be used to implement the Business Energy Saver program measures
- The business energy consumption shall be within Progress Energy defined standards
- The business will have been in operation for at least one year within Progress Energy service territory

 The business must meet the licensing requirement as established by the local municipality and state regulatory agencies.

Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions such as baseline or code revisions, updated measurement and valuation analysis, or technological advances.

Progress Energy is proposing to include the following measures with this program:

Compact Fluorescent Bulbs

This measure will install in the business up to five (5) compact fluorescent bulbs to replace incandescent bulbs with comparable lumens output

Refrigerator Coil Brush

This portion of the program will provide the customer with a coil brush and demonstration how to remove dust and debris from condenser coils to improve the refrigerator efficiency.

Refrigerator Thermometer

This measure will install one thermometer in the food or freezer compartment of the refrigerator to provide a reference temperature for efficient operation of the appliance

Change Filter Calendar

This portion of the program will provide each business with a Progress Energy magnetic calendar to help remind them to clean or change the HVAC filter monthly

Weatherization Measures

This portion of the program will install weather stripping, door sweeps, caulk, foam sealant, and clear patch tape where needed to reduce air infiltration around doors, windows, and where pipes enter the business

Water Heater Insulation Wrap and Insulation for Water Pipes

This portion of the program will install a water heater wrap and pipe insulation as identified to improve the efficiency of the water heating system. Foam insulated water heaters will be excluded from this measure

Water Conservation Faucet Aerators

This portion of the program will install a maximum of two (2) aerators per business. This measure will reduce energy consumption related to the water heater system

Water Heater Temperature Check and Adjustment

This portion of the program will provide a temperature check of the water heater and inform the customer of the possibility for reducing temperatures within manufacturer's recommendation and code requirements

HVAC Filters

This portion of the program will provide each customer with a one-year supply of filters (12) for the main HVAC system. One filter may be installed at time of evaluation if needed

Indoor Wall Thermometer

This portion of the program will install one wall plate thermometer per business to encourage the business owner to be aware of thermostat setting

HVAC Window Unit Winterization Kit

This measure will install a winterization HVAC kit on wall/window AC units, if seasonably applicable. The business will receive or have installed a maximum of three (3) kits. The customer will be educated on the proper use and value of the winterization kit as a method of stopping air infiltration in the business

HVAC Maintenance

This measure will provide basic maintenance on the condensing and air handling units to increase energy efficiency through proper operational maintenance of mechanical equipment

Attic Insulation Upgrade

This portion of the program will upgrade the customer's ceiling insulation up to R-30 as building code will allow. This measure will improve the efficiency of the business' building envelope

Window Film/Solar Screen

This portion of the program will install window film or solar screen on south, east, or west oriented windows to reduce solar heat gain within the building.

Program Participation

Annual participation estimates for the Business Energy Saver program are shown in the following table.

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	1,225	100	8.2%
2012	175,147	1,150	120	17.6%
2013	178,542	1,154	120	24.7%
2014	182,030	1,180	120	30.3%
2015	185,461	1,206	120	34.8%
2016	188,717	1,232	120	38.6%
2017	191,817	1,260	120	41.8%
2018	194,809	1,287	120	44.6%
2019	197,848	1,315	120	47.0%

^{1.} The total number of customers is the forecast of Commercial/Industrial customers in Progress Energy's 2009 Ten Year Site Plan.

Eligible customers represent the estimate of non-fortune 500 businesses that are serving NES low-income areas, escalated 2% per year.

^{3.} Number of program participants represents the participants projected.

^{4.} Cumulataive penetration is the ratio of cumulative participants to the remaining eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and annual projected participation. The total projected program savings where then computed as the sum of the individual measure savings, as shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	2308	0.41	1.64	230,790	41	164
2012	2308	0.41	1.64	276,948	50	197
2013	2308	0.41	1.64	276,948	50	197
2014	2308	0.41	1.64	276,948	50	197
2015	2308	0.41	1.64	276,948	50	197
2016	2308	0.41	1.64	276,948	50	197
2017	2308	0.41	1.64	276,948	50	197
2018	2308	0.41	1.64	276,948	50	197
2019	2308	0.41	1.64	276,948	50	197

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	2434	0.44	1.73	243,414	44	173
2012	2434	0.44	1.73	292,097	52	207
2013	2434	0.44	1.73	292,097	52	207
2014	2434	0.44	1.73	292,097	52	207
2015	2434	0.44	1.73	292,097	52	207
2016	2434	0.44	1.73	292,097	52	207
2017	2434	0.44	1.73	292,097	52	207
2018	2434	0.44	1.73	292,097	52	207
2019	2434	0.44	1.73	292,097	52	207

Impact Evaluation Plan

The Business Energy Saver program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts, although the specific method may vary depending on measure-specific participation levels.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$1,841	\$1,869	-\$28	0.99
Participant	\$1,518	\$447	\$1,072	3.4
Total Resource Cost	\$1,841	\$797	\$1,044	2.31

PROGRAM:	Com BESP	RIM

			BENEFITS						COSTS				-
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	TOTAL	A VOIDED	A VOIDED			TOTAL	INCREA SED	INCREASED	UTILITY				
	FUEL & O&M	T&D CAP	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP	GEN. CAP.	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SA VINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PA YMENTS	LOSSES	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	28	2	0	0	30	0	0	0	45	63	29	137	-107
2012	53	5	0	0	59	0	0	0	58	79	62	199	-140
2013	108	. 8	48	0	164	0	0	0	62	82	98	243	-78
2014	96	10	98	0	205	0	0	0	66	86	136	288	-83
2015	127	13	122	0	262	0	0	0	70	90	185	345	-83
2016	164	15	148	O	326	0	0	0	75	93	211	379	-53
2017	250	17	119	0	386	0	0	0	79	97	207	383	4
2018	242	19	209	0	470	0	0	0	85	101	221	407	64
2019	248	19	221	0	488	0	0	0	91	105	241	437	51
2020	219	17	194	0	430	0	0	0	0	0	219	219	211
2021	184	14	164	0	362	0	0	0	0	0	202	202	160
2022	197	12	75	0	284	0	0	0	0	0	173	173	111
2023	171	9	102	0	283	0	0	0	O	0	144	144	139
2024	106	7	81	0	194	0	0	0	0	0	112	112	82
2025	81	5	62	0	149	0	0	0	0	0	88	88	61
2026	72	3	28	0	103	0	0	0	0	0	62	62	41
2027	34	2	26	0	61	0	0	0	0	0	36	36	26
2028	28	1	23	0	52	0	0	0	0	0	30	30	22
2029	25	1	11	0	37	0	0	0	0	0	22	22	15
2030	24	1	16	0	40	0	0	0	0	0	18	18	23
2031	19	1	14	0	33	0	0	0	0	0	13	13	20
2032	17	1	12	0	29	0	0	0	0	0	11	11	18
2033	13	1	10	0	23	0	0	0	0	0	9	9	13
2034	9	0	8	0	17	0	0	0	0	0	7	7	9
2035	5	0	5	0	11	0	0	0	0	0	5	5	6
2036	3	0	3	0	6	0	0	0	0	0	2	2	3
2037	0	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	2,520	184	1,800	0	4,504	0	0	0	631	795	2,545	3,971	533
NPV	1,032	80	729	0	1,841	0	0	0	350	447	1,072	1,869	-28

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.985

			BEN	EFITS			COSTS			
		(1) SA VINGS IN	(2)	(3) OTHER	(4)	(5)	(6) PARTICIPANT'S	(7)	(8) NET BENEFITS	_
		PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	BILL	TOTAL	ТО	
		BILL	PAYMENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	PARTICIPANTS	
	YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	_
	2010	0	0	0	0	0	0	0	0	
	2011	29	63	0	92	63	0	63	29	
	2012	62	79	0	141	79	0	79	62	
	2013	98	82	0	181	82	0	82	98	
	2014	136	86	0	222	86	0	86	136	
	2015	185	90	0	275	90	0	90	185	
	2016	211	93	0	304	93	0	93	211	
	2017	207	97	0	304	97	0	97	207	
	2018	221	101	0	322	101	0	101	221	
	2019	241	105	0	346	105	0	105	241	
	2020	219	0	0	219	0	0	0	219	
	2021	202	0	0	202	0	0	0	202	
	2022	173	0	0	173	0	0	0	173	
	2023	144	0	0	144	0	0	0	144	
	2024	112	0 (0	112	0	0	0	112	
	2025	88	0	0	88	0	0	0	88	
	2026	62	0	0	62	0	0	0	62	
	2027	36	0	0	36	0	0	0	36	
	2028	30	0	0	30	0	0	0	30	
	2029	22	0	0	22	0	0	0	22	
	2030	18	0	0	18	0	0	0	18	
	2031	13	0	0	13	0	0	0	13	
	2032	11	0	0	11	0	0	0	11	
	2033	9	0	0	9	0	0	0	9	
	2034	7	0	0	7	0	0	0	7	
	2035	5	0	0	5	0	0	0	5	
	2036	2	0	0	2	0	0	0	2	
	2037	0	0	0	0	0	0	0	0	
	2038	0	0	0	0	0	0	0	0	
NOM	IINAL	2,545	795	0	3,340	795	0	795	2,545	-
NPV		1,072	447	0	1,518	447	0	447	1,072	

Utility Discount Rate = 8.48
Benefit Cost Ratio = 3.398

PROGRAM: Com BESP

Participant

PROGRAM: Com BESP TRC

			BENEFIT	S		COSTS						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL	A VOIDED	A VOIDED	OTHER			TOTAL	INCREA SED	INCREASED	UTILITY		
	FUEL & O&M		GEN. CAP.	PARTICIPANT	TOTAL	PARTICIPANT'S	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	TOTAL	NET
	SA VINGS	COSTS	COSTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFITS
YEA R	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	28	2	0	0	30	63	0	0	0	45	108	-78
2012	53	5	0	0	59	79	0	0	0	58	137	-78
2013	108	8	48	0	164	82	0	0	0	62	144	20
2014	96	10	98	0	205	86	0	0	0	66	152	52
2015	127	13	122	0	262	90	0	0	0	70	160	102
2016	164	15	148	0	326	93	0	0	0	75	168	159
2017	250	17	119	0	386	97	0	0	0	79	176	211
2018	242	19	209	0	470	101	0	0	0	85	186	284
2019	248	19	221	0	488	105	0	0	0	91	196	292
2020	219	17	194	0	430	0	0	0	0	0	0	430
2021	184	14	164	0	362	0	0	0	0	0	0	362
2022	197	12	75	0	284	0	0	0	0	0	0	284
2023	171	9	102	0	283	0	0	0	0	0	0	283
2024	106	7	81	0	194	0	0	0	0	0	O	194
2025	81	5	62	0	149	0	O	0	0	0	0	149
2026	72	3	28	0	103	0	0	0	0	0	0	103
2027	34	2	26	0	61	0	0	0	0	0	0	61
2028	28	1	23	0	52	0	O	0	0	0	0	52
2029	25	1	11	0	37	0	0	0	0	0	0	37
2030	24	1	16	0	40	0	0	0	0	0	0	40
2031	19	.1	14	0	33	0	0	0	0	0	0	33
2032	17	1	12	0	29	0	0	0	0	0	0	29
2033	13	1	10	0	23	0	0	0	0	0	0	23
2034	9	0	8	0	17	0	0	0	0	0	0	17
2035	5	0	5	0	11	0	0	0	0	0	0	11
2036	3	0	3	0	6	0	0	0	0	0	0	6
2037	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0	0
NOMINAL	2,520	184	1,800	0	4,504	795	0	0	0	631	1,426	3,078
NPV	1,032	80	729	0	1,841	447	0	0	0	350	797	1,044

Utility Discount Rate = 8.48

Benefit Cost Ratio = 2.309

E. COMMERCIAL GREEN BUILDING NEW CONSTRUCTION

Program Start Date:

Proposed to start in 2011

Program Description

The Commercial Green Building New Construction program is designed for commercial,

industrial, and governmental customers who are building new facilities to achieve optimal

energy efficiency. The Commercial Green Building New Construction program is designed to

encourage the energy efficient construction of new commercial facilities according to guidelines

set forth by LEED-NC. The LEED-NC rating system for commercial buildings focuses on

improving energy efficiency, reducing carbon emissions, and addressing other environmental

and human-health outcomes.

The program seeks to achieve the following goals:

· Promote use and increased quantity of Progress Energy approved energy efficient

measures during certification process

• Motivate new construction builders to obtain LEED-NC certification

• Demonstrate green building design costs are offset by sustainable energy reductions

through installation of energy efficient measures

Policies and Procedures

The general eligibility requirements are as follows:

- Qualification is limited to LEED-NC certified buildings only
- Incentive based on LEED-NC registration and certification fees
- Building must have installed a minimum number of Progress Energy Commercial New Construction program measures as outlined in the Program Participation Standards
- Commercial Green Building New Construction program incentive will be paid in addition to Commercial New Construction program incentives
- This program will offer a capped incentive in the amount of 50% of the registration and certification fees for obtaining a LEED-NC certificate for a New Construction building.

Incentive levels and specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards and will be subject to revision based on changes in market conditions, such as baseline or code revisions, updated measurement and valuation analysis, technological advances, or changes to the structure in the LEED-NC registration and certification fees.

Program Participation

Annual participation estimates for the Commercial Green Building New Construction program are shown in the following table:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	3,653	150	4.1%
2012	175,147	4,261	158	3.9%
2013	178,542	3,395	165	4.2%
2014	182,030	3,488	168	4.3%
2015	185,461	3,431	173	4.5%
2016	188,717	3,256	165	4.6%
2017	191,817	3,100	158	4.6%
2018	194,809	2,992	153	4.7%
2019	197,848	3,039	150	4.7%

The total number of customers is the forecast of Commercial/Industrial customers in Progress Energy's 2009 Ten Year Site Plan.

All Commercial, Industrial and Governmental rate class customers who build new facilities in a given year are eligible to participate.

^{3.} Number of program participants represents the participants projected.

Cumulative penetration is the ratio of cumulative participants to the accumulated eligible customer pool.

Savings Estimates

The total program savings were developed by analyzing new construction facilities compared to LEED-NC certified buildings. The total program savings are shown in the following table.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	3464	0.92	1.50	519,525	138	226
2012	3464	0.92	1.50	547,233	145	238
2013	3464	0.92	1.50	571,478	152	248
2014	3464	0.92	1.50	581,868	155	253
2015	3464	0.92	1.50	599,186	159	260
2016	3464	0.92	1.50	571,478	152	248
2017	3464	0.92	1.50	547,233	145	238
2018	3464	0.92	1.50	529,916	141	230
2019	3464	0.92	1.50	519,525	138	226

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	3653	0.97	1.59	547,943	146	238
2012	3653	0.97	1.59	577,167	153	251
2013	3653	0.97	1.59	602,737	160	262
2014	3653	0.97	1.59	613,696	163	267
2015	3653	0.97	1.59	631,961	168	275
2016	3653	0.97	1.59	602,737	160	262
2017	3653	0.97	1.59	577,167	153	251
2018	3653	0.97	1.59	558,902	148	243
2019	3653	0.97	1.59	547,943	146	238

Impact Evaluation Plan

The Commercial Green Building New Construction program includes the installation of varied types of measures. As such, the impact evaluation plan addresses interactive effects of multiple measures. In order to capture the impacts of these measures, engineering simulations and statistical billing analysis will represent the primary methods used to estimate demand and energy impacts.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$5,355	\$7,467	-\$2,112	0.72
Participant	\$6,670	\$2,466	\$4,203	2.7
Total Resource Cost	\$5,355	\$3,264	\$2,091	1.64

PROGRAM: Com Green-LEED NC RIM

	-		BENEFITS			COSTS							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	TOTAL	A VOIDED	A VOIDED			TOTAL	INCREASED	INCREASED	UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PA YMENTS	LOSSES	COSTS	BENEFIT
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	60	3	0	0	63	0	0	0	118	347	65	530	-468
2012	109	7	0	0	116	0	0	0	131	439	130	700	-584
2013	212	10	68	0	291	0	0	0	145	542	211	897	-606
2014	210	14	146	0	370	0	0	0	155	643	297	1,096	-726
2015	290	18	188	0	496	0	0	0	169	695	414	1,278	-782
2016	374	22	236	0	631	0	0	0	170	696	490	1,356	-725
2017	534	25	196	0	755	0 (0	0	172	700	493	1,365	-610
2018	536	28	351	0	915	0	0	0	175	712	534	1,422	-507
2019	601	32	400	0	1,033	0	0	0	182	733	625	1,539	-507
2020	607	32	408	0	1,047	0	0	0	0	0	642	642	404
2021	608	32	417	0	1,057	0	0	0	0	0	696	696	361
2022	741	32	228	0	1,000	0	0	0	0	0	701	701	299
2023	792	32	380	0	1,204	0	0	0	0	0	719	719	485
2024	673	32	397	0	1,101	0	0	0	0	0	735	735	367
2025	681	32	404	0	1,117	0	0	0	0	0	753	753	364
2026	746	28	238	0	1,013	0	0	0	0	0	690	690	323
2027	576	25	378	0	979	0	0	0	0	0	619	619	359
2028	509	21	331	0	861	0	0	0	0	0	541	541	320
2029	495	18	166	0	679	0	0	0	0	0	459	459	219
2030	410	14	218	0	641	0	0	0	0	0	368	368	273
2031	314	10	167	0	490	0	0	0	0	0	278	278	213
2032	213	7	114	0	333	0	0	0	0	0	186	186	147
2033	109	3	59	0	171	0	0	0	0	0	94	94	76
2034	0	0	0	0	0	0	0	0	0	0	0	0	0
2035	0	.0	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0	0	0	0	0	0
MINAL	10,395	477	5,490	0	16,362	0	0	0	1,417	5,508	10,740	17,666	-1,304
V	3,402	166	1,787	0	5,355	0	0	0	798	3,052	3,617	7,467	-2,112

Utility Discount Rate = 8.48
Benefit Cost Ratio = 0.717

PROGRAM:	Com Green-LEED N	NC	Participant					
		BEN	EFITS			COSTS		
WEAD.	(1) SAVINGS IN PARTICIPANT'S BILL	(2) INCENTIVE PAYMENTS	(3) OTHER PARTICIPANT'S BENEFITS	TOTAL BENEFITS	(5) PARTICIPANT'S COST	(6) PARTICIPANT'S BILL INCREASE	(7) TOTAL COSTS	(8) NET BENEFITS TO PARTICIPANTS
YEAR 2010	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	65	347	0	412	372	0	372	40
2012	130	439	0	569	412	0	412	157
2012	211	542	0	752	451	0	412	301
2013	297	643	0	941	482	0	482	458
2014	414	695	0	1,109	522	0	522	588
2016	490	696	0	1,186	522	0	522	664
2017	493	700	0	1,193	525	0	525	668
2017	534	712	0	1,246	534	0	534	712
2019	625	733	0	1,358	550	0	550	808
2020	642	0	0	642	0	0	0	642
2021	696	0	0	696	0	0	0	696
2022	701	0	0	701	0	0	0	701
2023	719	0	0	719	0	0	0	719
2024	735	0	0	735	0	0	0	735
2025	753	0	0	753	0	0	0	753
2026	690	0	0	690	0	0	0	690
2027	619	0	0	619	0	0	0	619
2028	541	0	0	541	0	0	0	541
2029	459	0	0	459	0	0	0	459
2030	368	0	0	368	0	0	0	368
2031	278	0	0	278	0	0	0	278
2032	186	0	0	186	0	0	0	186
2033	94	0	0	94	0	0	0	94
2034	0	0	0	0	0	0	0	0
2035	0	0	0	Ő	0	0	0	0
2036	, o	0	0	Ô	.0	0	0	0
2037	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	0	0
NOMINAL	10,740	5,508		16,249	4,370	1	4,370	11,878
NPV	3,617	3,052		6,670	2,466		2,466	4,203

Utility Discount Rate = 8.48
Benefit Cost Ratio = 2.704

PROGRAM:	Com Green-LEED NC	TRC

			BENEFIT	S				COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	TOTAL	A VOIDED	A VOIDED	OTHER			TOTAL	INCREA SED	INCREA SED	UTILITY		
	FUEL & O&M		GEN. CAP.	PARTICIPANT	TOTAL	PARTICIPANT'S	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRA M	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	60	3	0	0	63	372	0	0	0	118	490	-427
2012	109	7	0	0	116	412	0	0	0	131	543	-427
2013	212	10	68	0	291	451	0	0	0	145	596	-305
2014	210	14	146	0	370	482	0	0	0	155	638	-268
2015	290	18	188	0	496	522	0	0	0	169	690	-194
2016	374	22	236	0	631	522	0	0	0	170	692	-61
2017	534	25	196	0	755	525	0	0	0	172	697	58
2018	536	28	351	0	915	534	0	0	0	175	710	206
2019	601	32	400	0	1,033	550	0	0	0	182	731	302
2020	607	32	408	0	1,047	0	0	0	0	0	0	1,047
2021	608	32	417	0	1,057	0	0	0	0	0	0	1,057
2022	741	32	228	0	1,000	0	0	0	0	0	0	1,000
2023	792	32	380	0	1,204	0	0	0	0	0	0	1,204
2024	673	32	397	0	1,101	0	0	0	0	0	0	1,101
2025	681	32	404	0	1,117	0	0	0	0	0	0	1,117
2026	746	28	238	0	1,013	0	0	0	0	0	0	1,013
2027	576	25	378	0	979	0	0	0	0	0	0	979
2028	509	21	331	0	861	0	0	0	0	0	0	861
2029	495	18	166	0	679	0	0	0	0	0	0	679
2030	410	14	218	.0	641	0	0	0	0	0	0	641
2031	314	10	167	0	490	0	0	0	0	0	0	490
2032	213	7	114	0	333	0	0	0	0	0	0	333
2033	109	3	59	0	171	0	0	0	0	0	0	171
2034	0	0	0	0	0	0	0	0	0	0	0	0
2035	- 0	0	0	0	0	0	0	0	0	0	0	0
2036	0	0	0	0	0	0	0	0	0	0	0	0
2037	0	0	0	0	0	0	0	0	0	0	0	0
2038	0	0	0	0	0	0	O	0	0	0	0	0
NOMINAL	10,395	477	5,490	0	16,362	4,370	0	0	0	1,417	5,788	10,575
NPV	3,402	166	1,787	0	5,355	2,466	0	0	0	798	3,264	2,091

Utility Discount Rate = 8.48

Benefit Cost Ratio = 1.641

F. INNOVATION INCENTIVE PROGRAM

Program Start Date:

1992

Program modified in 1995

Modifications proposed in 2010

Program Description

The objective of the Innovation Incentive program is to encourage customers to make capital

investments for the installation of energy efficiency measures which reduce peak KW and energy

on the Progress Energy system. This program offers customized incentives specifically designed

for individual innovative projects which are not otherwise addressed by Progress Energy

Demand Side Management programs.

Representative examples of energy efficient technologies that would be considered under this

program include, but are not limited to, refrigeration equipment replacement and new lighting

technologies.

Policies and Procedures

The timeline of the Innovation Incentive program can range from six months to one year

depending on the project. The steps included are application, monitoring, data collection,

analysis of data, inspection, and processing incentive to the customer.

Program eligibility requirements to qualify for participation are as follows:

 Participant must be located in the Progress Energy service territory and be a commercially metered customer

 Participant must be willing to allow Progress Energy to monitor and inspect the installations of all measures and equipment.

Specific eligibility requirements for each measure promoted in this program will be presented in the Program Participation Standards.

Progress Energy will perform a customer-specific cost-effectiveness analysis for each project being considered under the Innovation Incentive program, using the Commission-approved cost-effectiveness tests described in Rule 25-17.008, Florida Administrative Code. The customer's incentive shall be based on the energy saved and/or demand reduction achieved, but shall not exceed 50% of the project cost or reduce the payback to less than two years. The maximum incentive for one project is \$500,000 per year. For complex engineering projects, Progress Energy reserves the right to stage the total incentive amount when necessary to confirm energy efficiency savings of the project.

After Progress Energy has reviewed and approved the project, an application will be executed between Progress Energy and the customer.

Program Participation

Annual participation estimates for the Innovation Incentive program are shown in the following table.

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	170,886	170,886	4	0.0%
2012	175,147	175,147	8	0.0%
2013	178,542	178,542	10	0.0%
2014	182,030	182,030	12	0.0%
2015	185,461	185,461	15	0.0%
2016	188,717	188,717	17	0.0%
2017	191,817	191,817	20	0.0%
2018	194,809	194,809	23	0.0%
2019	197,848	197,848	25	0.0%

^{1.} The total number of customers is the forecast of Commercial/Industrial customers in Progress Energy's 2009 Ten Year Site Plan.

^{2.} All commercial, industrial and governmental rate classes are eligible to participate.

^{3.} Numer of program participants represents the participants projected.

^{4.} Cumulative penetration is the ratio of cumulative participating customers to the eligible customer pool.

Savings Estimates

Program savings were not estimated during the planning stage and are not included in the Demand Side Management plan total. Any impacts obtained by this program will be calculated for each individual project and will be reported to the Commission to be counted toward achieving Progress Energy's conservation goals.

Impact Evaluation Plan

To verify the estimated savings for each project, an engineering/billing analysis based on customer-specific site and usage data will be performed. Monitoring will continue until Progress Energy has reasonable assurance that the project will remain in place and produce cost-effective energy savings for its estimated life. An incentive will not be issued to the customer until Progress Energy is reasonably sure of the projected savings.

Cost Effectiveness

Each individual project will be analyzed for cost-effectiveness at the time of project submittal to Progress Energy, using the Commission-approved tests of cost-effectiveness. Therefore, total program cost-effectiveness results are not shown.

G. STANDBY GENERATION PROGRAM

Program Start Date:

1993

Program modified in 1995, 2007

Modifications proposed in 2010

Program Description

The Standby Generation program is a demand control program that will reduce Progress Energy's demand based upon the control of customer equipment. The program is a voluntary program available to all commercial and industrial customers who have on-site generation capability and are willing to reduce their Progress Energy demand when deemed necessary. The program is offered through the General Service Load Management-2 (GSLM-2) rate schedule.

Progress Energy may have direct control of the customer equipment or will rely upon the customer to initiate the generation upon being notified by Progress Energy and continue running it until Progress Energy notifies the customer that the generation is no longer needed. Progress Energy does not restrict other use of the equipment by the customer.

Standby Generation program participants receive a monthly credit on their energy bill according to the demonstrated ability of the customer to reduce demand at Progress Energy's request. An additional credit will be based on the KWh the customer provides. The credits are based upon the load served by the customer's generator, which would have been served by Progress Energy if the Standby Generation program were not in operation. By compensating the customer for the use of their on-site generation, Progress Energy can impact the commercial and industrial market

while minimizing rate impacts. The incentive will be based on a per KW credit per month plus an additional compensation per KWh to support customer O&M associated with run time requested by the company.

Policies and Procedures

The general program eligibility requirements to qualify for participation are as follows:

- Customer must be eligible for service under the GS-1, GST-1, GSD-1 or GSDT-1 Rate
 Schedules
- Customer must have standby generation that will allow facility demand reduction at the request of Progress Energy
- Customer's Standby Generation Capacity calculation must be at least 50 KW
- Customer must be within the range of Progress Energy's load management system

Program Participation

Annual participation estimates for the Standby Generation program are shown in the following table.

Year	Total Number of	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%)
2011	170,886	547	10	1.8%
2012	175,147	560	10	3.6%
2013	178,542	571	10	5.3%
2014	182,030	582	10	6.9%
2015	185,461	593	10	8.4%
2016	188,717	604	10	9.9%
2017	191,817	614	10	11.4%
2018	194,809	623	10	12.8%
2019	197,848	633	10	14.2%

Total Number of Customers is the forecast of Commercial/Industrial customers in the Progress Energy 2009 Ten Year Site Plan.

Eligible Customers is based upon tariff GSLM-2 Rate Schedule.

Annual number of program participants represents the projected number of customers.

Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

The KW and KWh savings estimates for this program were determined from historical data and are presented below.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	-	400.00	400.00	-	4,000	4,000
2012	-	400.00	400.00	-	4,000	4,000
2013	-	400.00	400.00	-	4,000	4,000
2014	-	400.00	400.00	-	4,000	4,000
2015	-	400.00	400.00	-	4,000	4,000
2016	-	400.00	400.00	- 1	4,000	4,000
2017	-	400.00	400.00		4,000	4,000
2018	-	400.00	400.00		4,000	4,000
2019	-	400.00	400.00	-	4,000	4,000

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	- 1	425.08	425.08	-	4,251	4,251
2012		425.08	425.08		4,251	4,251
2013		425.08	425.08	-	4,251	4,251
2014	-	425.08	425.08		4,251	4,251
2015	-	425.08	425.08	-	4,251	4,251
2016		425.08	425.08		4,251	4,251
2017	-	425.08	425.08	1-	4,251	4,251
2018	-	425.08	425.08	1	4,251	4,251
2019	-	425.08	425.08	-	4,251	4,251

Impact Evaluation Plan

Progress Energy uses on-site metering to measure the generation capability of each Standby Generation program participant to reduce load at the time they join the program. The customer and a Progress Energy representative will observe the metering tests to determine the load that the standby generator carries. This system testing will also determine the initial readings that will be recorded in order to determine the incentive that the customer will receive on their bill each month.

Cost Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$80,510	\$11,584	\$68,926	6.95
Participant	\$10,235	\$0	\$10,235	9999
Total Resource Cost	\$80,510	\$1,349	\$79,161	59.68

PROGRAM: Standby Generation - RIM

			BENEFITS					COSTS			
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)	(6) TOTAL	(7) UTILITY	(8)	(9)	(10)	(11)
	FUEL & O&M	T&D CAP	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	PAYMENTS	LOSSES	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	15	0	0	0	15	0	63	117	8	189	-174
2011	37	0	0	0	37	0	68	235	22	325	-288
2012	42	0	0	0	42	0	73	352	26	451	-409
2013	975	0	1,949	0	2,924	0	78	470	27	575	2,349
2014	0	0	3,839	0	3,839	87	83	587	36	793	3,047
2015	0	0	4,682	0	4,682	716	88	704	47	1,556	3,127
2016	140	0	5,203	0	5,343	0	93	822	90	1,005	4,338
2017	1,498	0	6,233	0	7,731	0	98	939	89	1,126	6,605
2018	2,040	0	8,261	0	10,301	0	103	1,057	95	1,255	9,046
2019	1,708	0	9,368	0	11,076	0	108	1,174	111	1,393	9,683
2020	1,557	0	9,565	0	11,122	0	50	1,174	114	1,338	9,784
2021	632	0	9,767	0	10,398	0	50	1,174	124	1,348	9,051
2022	3,629	0	5,337	0	8,965	0	50	1,174	125	1,349	7,617
2023	3,999	0	8,911	0	12,910	. 0	50	1,174	128	1,352	11,558
2024	1,139	0	9,305	0	10,444	0	50	1,174	131	1,355	9,090
2025	584	0	9,464	0	10,048	0	50	1,174	134	1,358	8,690
2026	3,639	0	6,234	0	9,872	0	50	1,174	137	1,361	8,512
2027	1,315	0	11,267	0	12,582	0	50	1,174	112	1,336	11,246
2028	1,169	0	11,535	0	12,704	0	50	1,174	143	1,367	11,337
2029	3,138	0	6,061	0	9,199	0	50	1,174	147	1,371	7,828
2030	3,434	0	10,141	0	13,574	0	50	1,174	151	1,375	12,199
2031	3,517	0	10,546	0	14,063	0	50	1,174	154	1,378	12,685
2032	3,532	0	10,968	0	14,500	0	50	1,174	157	1,381	13,119
2033	3,460	0	11,407	0	14,867	0	50	1,174	161	1,385	13,482
2034	3,634	0	11,863	0	15,497	0	50	1,174	164	1,388	14,109
2035	3,528	0	12,338	0	15,866	0	50	1,174	168	1,392	14,473
2036	3,469	0	12,831	0	16,300	0	50	1,174	172	1,396	14,904
2037	3,586	0	13,344	0	16,930	0	50	1,174	176	1,400	15,530
2038	3,681	0	13,878	0	17,559	0	50	1,174	179	1,403	16,156
OMINAL	59,093	0	234,299	0	293,391	803	1,807	28,763	3,327	34,700	258,692
Pγ	14.764	0	65,746	0	80,510	539	810	9,282	953	11,584	68,926

Utility Discount Rate = 8.48
Benefit Cost Ratio = 6.950

PROGRAM: Standby Generation - Participant

		BEN	EFITS		COSTS	S	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	SA VINGS IN		OTHER				
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	TOTAL	NET
	BILL	PAYMENTS	BENEFITS	BENEFITS	COST	COSTS	BENEFIT
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	8	117	0	126	0	0	126
2011	22	235	0	257	0	0	257
2012	26	352	0	378	0	0	378
2013	27	470	0	497	0	0	497
2014	36	587	0	623	0	0	623
2015	47	704	0	751	0	0	751
2016	90	822	0	911	0	0	911
2017	89	939	0	1,028	0	0 2	1,028
2018	95	1,057	0	1,152	0	0	1,152
2019	111	1,174	0	1,285	0	0	1,285
2020	114	1,174	0	1,288	0	0	1,288
2021	124	1,174	0	1,298	0	0	1,298
2022	125	1,174	0	1,299	0	0	1,299
2023	128	1,174	0	1,302	0	0	1,302
2024	131	1,174	0	1,305	0	0	1,305
2025	134	1,174	0	1,308	0	0	1,308
2026	137	1,174	0	1,311	0	0	1,311
2027	112	1,174	0	1,286	0	0	1,286
2028	143	1,174	0	1,317	0	0	1,317
2029	147	1,174	0	1,321	0	0	1,321
2030	151	1,174	0	1,325	0	0	1,325
2031	154	1,174	0	1,328	0	0	1,328
2032	157	1,174	0	1,331	0	0	1,331
2033	161	1,174	0	1,335	0	0	1,335
2034	164	1,174	0	1,338	0	0	1,338
2035	168	1,174	0	1,342	0	0	1,342
2036	172	1,174	0	1,346	0	0	1,346
2037	176	1,174	0	1,350	0	0	1,350
2038	179	1,174	0	1,353	0	0	1,353
IOMINAL	3,327	28,763	0	32,090	0	0	32,090
IPV	953	9,282	0	10.235	0.	0	10,235

Utility Discount Rate = 8:48

Benefit Cost Ratio = 9999

PROGRAM: Standby Generation - TRC

			BENEFI	rs .			CO	STS		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	TOTAL	A VOIDED	A VOIDED	OTHER		TOTAL	UTILITY			
	FUEL & O&M	T&D CAP.	GEN. CAP.	PARTICIPANT	TOTAL	FUEL & O&M	PROGRAM	PARTICIPANT'S	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	BENEFITS	INCREASE	COSTS	COST	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	15	0	0	0	15	0	63	0	63	-48
2011	37	0	0	0	37	0	68	0	68	-31
2012	42	0	0	0	42	0	73	0	73	-31
2013	975	0	1,949	0	2,924	0	78	0	78	2,846
2014	0	0	3,839	0	3,839	87	83	0	170	3,669
2015	0	0	4,682	0	4,682	716	88	0	804	3,878
2016	140	0	5,203	0	5,343	0	93	0	93	5,250
2017	1,498	0	6,233	0	7,731	0	98	0	98	7,633
2018	2,040	0	8,261	0	10,301	0	103	0	103	10,198
2019	1,708	0	9,368	0	11,076	0	108	0	108	10,968
2020	1,557	0	9,565	0	11,122	0	50	0	50	11,072
2021	632	0	9,767	0	10,398	0	50	0	50	10,348
2022	3,629	0	5,337	0	8,965	0	50	0	50	8,915
2023	3,999	0	8,911	0	12,910	0	50	0	50	12,860
2024	1,139	0	9,305	0	10,444	0	50	0	50	10,394
2025	584	0	9,464	0	10,048	0	50	0	50	9,998
2026	3,639	0	6,234	0	9,872	0	50	0	50	9,822
2027	1,315	0	11,267	0	12,582	0	50	0	50	12,532
2028	1,169	0	11,535	0	12,704	0	50	0	50	12,654
2029	3,138	0	6,061	0	9,199	0	50	0	50	9,149
2030	3,434	0	10,141	0	13,574	0	50	0	50	13,524
2031	3,517	0	10,546	0	14,063	0	50	0	50	14,013
2032	3,532	0	10,968	0	14,500	0	50	0	50	14,450
2033	3,460	0	11,407	0	14,867	0	50	0	50	14,817
2034	3,634	0	11,863	0	15,497	.0	50	0	50	15,447
2035	3,528	0	12,338	0	15,866	0	50	0	50	15,816
2036	3,469	0	12,831	0	16,300	0	50	0	50	16,250
2037	3,586	0	13,344	0	16,930	0	50	0	50	16,880
2038	3,681	0	13,878	0	17,559	0	50	0	50	17,509
IOMINAL	59,093	0	234,299	0	293,391	803	1,807	0	2,609	290,782
IPV	14,764	0	65,746	0	80,510	539	810	0	1,349	79,161

Utility Discount Rate = 8.48
Benefit Cost Ratio = 59.683

H. INTERRUPTIBLE SERVICE PROGRAM

Program Start Date:

1996 for the IS-2 and IST-2 rate schedules.

Modifications proposed in 2010

Program Description

The Interruptible Service program is a direct load control program that reduces Progress Energy's

demand at times of capacity shortage during peak or emergency conditions.

Policies and Procedures

The program is available throughout the entire territory served by Progress Energy to any non-

residential customer who is willing to have their power interrupted. The program is currently

offered through the Interruptible General Service (IS-2) and Interruptible General Service Time

of Use (IST-2) rate schedules. The IS-1 and IST-1 rate schedules were closed to new customers

in 1996, but remain active for those customers that were grand-fathered onto the rate.

Progress Energy will have remote control of the circuit breaker or disconnect switch supplying

the customer's equipment. If purchased power is available at the time of potential interruption,

customers who choose not to have their load interrupted will be assessed at the price of that

purchased power supplied. Customers participating in the Interruptible Service program will

receive a monthly interruptible demand credit based on their billing demand and billing load

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factor.

The general program eligibility requirements to qualify for participation are as follows:

- Customer must be eligible for service under the IS-2 or IST-2 Rate Schedules.
- Minimum billing demand must be 500 KW or more.
- Available at primary, transmission and secondary service voltages.

Program Participation

Annual participation estimates for the Interruptible Service program are shown in the following table.

Year	Total Number of Customers	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2011	170,886	459	1	0.2%
2012	175,147	470	1	0.4%
2013	178,542	479	1	0.6%
2014	182,030	489	1	0.8%
2015	185,461	498	1	1.0%
2016	188,717	507	1	1.2%
2017	191,817	515	1	1.4%
2018	194,809	523	1	1.5%
2019	197,848	531	1	1.7%

Total Number of Customers is the forecast of Commercial/Industrial customers in the Progress Energy 2009 Ten Year Site Plan. Eligible Customers is based upon tariff IS-2 Rate Schedule.

Annual number of program participants represents the projected number of customers.

Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Savings estimate for the Interruptible Service program are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	-	326.00	311.00	-	326	311
2012	-	326.00	311.00	-	326	311
2013	-	326.00	311.00	-	326	311
2014	-	326.00	311.00		326	311
2015	-	326.00	311.00	-	326	311
2016	-	326.00	311.00	-	326	311
2017	-	326.00	311.00	-	326	311
2018	-	326.00	311.00	-	326	311
2019	-	326.00	311.00	-	326	311

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction	
2011	-	336.79	321.30	-	337	321	
2012	-	336.79	321.30	-	337	321	
2013	-	336.79	321.30	-	337	321	
2014	-	336.79	321.30	-	337	321	
2015	-	336.79	321.30	-	337	321	
2016	-	336.79	321.30	-	337	321	
2017	-	336.79	321.30	-	337	321	
2018	-	336.79	321.30	-	337	321	
2019	-	336.79	321.30		337	321	

Impact Evaluation Plan

Program impacts are evaluated through on-site interval metering data of all Interruptible Service customers.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$6,187	\$1,315	\$4,872	4.7
Participant	\$1,127	\$0	\$1,127	9999
Total Resource Cost	\$6,187	\$187	\$6,000	33.09

PROGRAM: Interruptible Service - RIM

			BENEFTTS					COSTS			
	(1) TOTAL	(2) A VOIDED	(3) A VOIDED	(4)	(5)	(6) TOTAL	(7) UTILITY	(8)	(9)	(10)	(11)
	FUEL & O&M		GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SA VINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	PA YMENTS	LOSSES	COSTS	BENEFTIS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	1	0	0	0	1	0	16	13	1	30	-29
2011	3	0	0	0	3	0	17	27	1	45	-42
2012	3	0	0	0	3	0	17	40	2	59	-56
2013	76	0	147	0	223	0	18	54	3	74	149
2014	0	0	290	0	290	4	18	67	3	93	197
2015	0	0	353	0	353	51	19	81	5	155	198
2016	12	0	412	0	424	0	19	94	5	119	305
2017	119	0	493	0	612	0	20	108	5	133	479
2018	155	0	623	0	779	0	20	121	5	147	632
2019	130	0	707	0	837	0	21	135	6	162	675
2020	120	0	722	0	841	0	5	135	7	146	695
2021	50	0	737	0	787	0	5	135	8	148	639
2022	274	0	403	0	677	0	5	135	7	147	530
2023	301	0	672	0	974	0	5	135	8	147	826
2024	88	0	702	0	790	0	5	135	8	148	643
2025	45	0	714	0	759	0	5	135	8	148	611
2026	273	0	470	0	743	0	5	135	8	148	595
2027	103	0	850	0	953	0	5	135	8	148	805
2028	91	0	871	0	962	0	5	135	9	148	813
2029	247	0	479	0	726	0	5	135	9	149	577
2030	270	0	802	0	1,071	0	5	135	10	150	922
2031	277	0	834	0	1,110	0	5	135	10	149	961
2032	280	0	867	0	1,147	0	5	135	10	150	998
2033	272	0	902	0	1,174	0	5	135	11	150	1,024
2034	286	0	938	0	1,224	0	5	135	10	150	1,074
2035	277	0	976	0	1,253	0	5	135	11	150	1,102
2036	273	0	1,015	0	1,287	0	5	135	11	151	1,136
2037	280	0	1,055	0	1,335	0	5	135	11	151	1,185
2038	289	0	1,098	0	1,386	0	5	135	11	151	1,235
DMINAL	4,590	0	18,133	0	22,724	56	278	3,304	209	3,846	18,877
							150	1,066	61	1,315	4,872

Utility Discount Rate = 8.48

Benefit Cost Ratio = 4.706

PROGRAM: Interruptible Service - Participant

		BENI	EFITS		COSTS	3	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	SAVINGS IN		OTHER	2127-2012-07 (d) (d)			
	PARTICIPANT'S	INCENTIVE	PARTICIPANT'S	TOTAL	PARTICIPANT'S	TOTAL	NET
* #FT - TAN	BILL	PAYMENTS	BENEFITS	BENEFTIS	COST	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	1	13	0	14	0	0	14
2011	1	27	0	28	0	0	28
2012	2	40	0	42	0	0	42
2013	3	54	0	57	0	0	57
2014	3	67	0	71	0	0	71
2015	5	81	0	86	0	0	86
2016	5	94	0	100	0	0	100
2017	5	108	0	113	0	0	113
2018	5	121	0	127	0	0	127
2019	6	135	0	141	0	0	141
2020	7	135	0	141	0	0	141
2021	8	135	0	143	0	0	143
2022	7	135	0	142	0	0	142
2023	8	135	.0	142	0	0	142
2024	8	135	0	143	0	0	143
2025	8	135	0	143	0	0	143
2026	8	135	0	143	0	0	143
2027	8	135	0	143	0	0	143
2028	9	135	0	143	0	0	143
2029	9	135	0	144	0	0	144
2030	10	135	0	145	0	0	145
2031	10	135	0	144	0	0	144
2032	10	135	0	145	0	0	145
2033	11	135	0	145	0	0	145
2034	10	135	0	145	0	0	145
2035	11	135	0	145	0	0	145
2036	11	135	0	146	0	0	146
2037	11	135	0	146	0	0	146
2038	11	135	0	146	0	0	146
NOMINAL	209	3,304	0	3,513	0	0	3,513
NPV	61	1,066	0	1,127	0	0	1,127

Utility Discount Rate = 8.48
Benefit Cost Ratio = 9999

PROGRAM: Interruptible Service - TRC

			BENEFT	rs			CO	OSTS		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	TOTAL	A VOIDED	A VOIDED	OTHER		TOTAL	UTILITY			
	FUEL & O&M		GEN. CAP.	PARTICIPANT	TOTAL	FUEL & O&M	PROGRAM	PARTICIPANT'S	TOTAL	NET
	SAVINGS	COSTS	COSTS	BENEFITS	BENEFITS	INCREASE	COSTS	COST	COSTS	BENEFITS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	1	0	0	0	1	0	16	0	16	-15
2011	3	0	0	0	3	0	17	0	17	-14
2012	3	0	0	0	3	0	17	0	17	-14
2013	76	0	147	0	223	0	18	0	18	205
2014	. 0	0	290	0	290	4	18	0	22	267
2015	0	0	353	0	353	51	19	0	70	284
2016	12	0	412	0	424	0	19	0	19	405
2017	119	0	493	0	612	0	20	0	20	592
2018	155	0	623	0	779	0	20	0	20	759
2019	130	0	707	0	837	0	21	0	21	816
2020	120	0	722	0	841	0	5	0	5	836
2021	50	0	737	0	787	0	5	0	5	782
2022	274	0	403	0	677	0	5	0	5	672
2023	301	0	672	0	974	0	- 5	0	5	969
2024	88	0	702	0	790	0	5	0	5	785
2025	45	0	714	0	759	0	5	0	5	754
2026	273	0	470	0	743	0	5	0	5	738
2027	103	0	850	0	953	0	5	0	5	948
2028	91	0	871	0	962	0	5	0	5	957
2029	247	0	479	0	726	0	5	0	5	721
2030	270	0	802	0	1,071	0	5	0	5	1,066
2031	277	0	834	0	1,110	0	5	0	5	1,105
2032	280	0	867	0	1,147	0	5	0	5	1,142
2033	272	0	902	0	1,174	0	5	0	5	1,169
2034	286	0	938	0	1,224	0	5	0	5	1,219
2035	277	0	976	0	1,253	0	5	0	5	1,248
2036	273	0	1,015	0	1,287	0	5	0	5	1,282
2037	280	0	1,055	0	1,335	0	5	0	5	1,330
2038	289	0	1,098	0	1,386	0	5	0	5	1,381
OMINAL	4,590	0	18,133	0	22,724	56	278	0	333	22,391
IPV	1,141	0	5,046	0	6,187	37	150	0	187	6,000

Utility Discount Rate = 8.48
Benefit Cost Ratio = 33.061

I. CURTAILABLE SERVICE PROGRAM

Program Start Date:

1996 for the CS-2 and CST-2 rate schedules

2004 for the CS-3 and CST-3 rate schedules.

Modifications proposed in 2010

Program Description

The Curtailable Service program is an indirect load control program that will reduce Progress Energy's demand at times of capacity shortage during peak or emergency conditions.

Policies and Procedures

The program is available throughout the entire territory served by Progress Energy to any non-residential customer who agrees to curtail 25% of their average monthly billing demand for CS-2 and CST-2 and a minimum of 2000 KW for CS-3 and CST-3. The program is currently offered through the Curtailable General Service (CS-2) and Curtailable General Service Time of Use (CST-2) rate schedules. The CS-1 and CST-1 rate schedules were closed to new customers in 1996, but remain active for those customers that were grand-fathered onto the rate.

Progress Energy will notify customers when off-system power purchases may begin in support of their service. If purchased power is available at the time of notification, customers who choose not to reduce their load will be assessed charges as set forth in the applicable tariff.

Additionally, Progress Energy will provide notification of curtailment request. Upon curtailment

request, customers choosing not to comply with their curtailment responsibility will be assessed penalties as described in the applicable tariff. Customers participating in the Curtailable Service program receive a monthly curtailable demand credit based on their curtailable demand and billing load factor. The general program eligibility requirements to qualify for participation are as follows:

- Customer must be eligible for service under the CS-2 or CST-2 Rate Schedules.
- Minimum billing demand must be 500 KW or more for CS-2 and CST-2.
- Available at primary, transmission and secondary service voltages.

Program Participation

Annual participation estimates for the Curtailable Service program are shown in the following table.

Year	Total Number of Customers (1)	Measure	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2011	170,886	906	1	0.1%
2012	175,147	928	1	0.2%
2013	178,542	946	1	0.3%
2014	182,030	965	inte aji T annaj t	0.4%
2015	185,461	983	1	0.5%
2016	188,717	1,000	1	0.6%
2017	191,817	1,017	1	0.7%
2018	194,809	1,032	1	0.8%
2019	197,848	1,049	1	0.9%

Savings Estimates

Savings estimate for the Curtailable Service program are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	-	282.00	189.00	-	282	189
2012	-	282.00	189.00	-	282	189
2013	-	282.00	189.00	-	282	189
2014	-	282.00	189.00	-	282	189
2015	-	282.00	189.00		282	189
2016	-	282.00	189.00		282	189
2017	-	282.00	189.00	-	282	189
2018	-	282.00	189.00	-	282	189
2019	-	282.00	189.00	-	282	189

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	-	299.68	200.85	7-2	300	201
2012		299.68	200.85		300	201
2013	-	299.68	200.85	-	300	201
2014	-	299.68	200.85	-	300	201
2015	-	299.68	200.85	-	300	201
2016	_	299.68	200.85	_	300	201
2017	_	299.68	200.85	-	300	201
2018		299.68	200.85	-	300	201
2019	-	299.68	200.85	-	300	201

Impact Evaluation Plan

Program impacts are evaluated through on-site interval metering data of all Curtailable Service customers.

Cost-Effectiveness

All cost effectiveness tests are net of free ridership. The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$4,508	\$720	\$3,788	6.26
Participant	\$663	\$0	\$663	9999
Total Resource Cost	\$4,508	\$57	\$4,450	78.8

PROGRAM: Curtailable Service - RIM

	<u> </u>		BENEFTIS					COSTS			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	TOTAL	A VOIDED	A VOIDED			TOTAL	UTILITY				
	FUEL & O&M	T&D CAP	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SAVINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	PA YMENTS	LOSSES	COSTS	BENEFTIS
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	1	0	0	0	1	0	0	8	1	8	-8
2011	3	0	0	0	3	0	1	15	1	17	-15
2012	3	0	0	0	3	0	1	23	2	26	-23
2013	48	()	92	0	140	0	2	31	2	35	106
2014	0	0	182	0	182	2	2	39	3	45	137
2015	0	0	222	0	222	30	3	46	4	83	139
2016	10	0	367	0	377	0	3	54	5	62	315
2017	106	0	440	0	546	0	4	62	5	70	476
2018	99	0	391	0	491	0	4	70	5	78	412
2019	83	0	444	O	527	0	5	77	6	87	439
2020	77	0	453	O	530	0	5	77	6	88	441
2021	35	0	463	0	497	0	5	77	6	89	409
2022	174	0	253	0	427	0	5	77	6	89	338
2023	192	0	422	O	614	0	5	77	7	89	525
2024	58	0	441	0	499	0	5	77	7	89	410
2025	31	0	448	0	479	0	5	77	7	89	390
2026	174	0	295	0	469	0	5	77	7	89	380
2027	66	0	534	0	600	0	5	77	7	89	510
2028	59	0	547	0	606	0	5	77	7	90	516
2029	220	0	428	0	647	0	5	77	8	90	557
2030	242	0	715	0	956	0	5	77	8	90	866
2031	247	0	744	0	990	0	5	77	8	90	900
2032	249	0	773	0	1,022	0	5	77	8	90	931
2033	243	0	804	0	1,047	0	5	77	8	91	957
2034	255	0	836	0	1,091	0	5	77	8	91	1,001
2035	247	.0	870	0	1,117	0	5	77	9	91	1,026
2036	242	0	905	0	1,147	0	5	77	9	91	1,055
2037	250	0	941	0	1,191	0	5	77	9	91	1,099
2038	258	0	978	0	1,236	0	5	77	9	91	1,145
NOMINAL	3,668	0	13,987	0	17,654	32	118	1,892	177	2,218	15,436
NPV	855	0	3,652	0	4,508	21	36	611	52	720	3,787

Utility Discount Rate = 8.48
Benefit Cost Ratio = 6.259

PROGRAM: Curtailable Service - Participant

			BENI	EFITS	COS			
		(1) SA VINGS IN	(2)	(3) OTHER	(4)	(5)	(6)	(7)
YEAR		PARTICIPANT'S BILL \$(000)	INCENTIVE PAYMENTS \$(000)	PARTICIPANT'S BENEFITS \$(000)	TOTAL BENEFITS \$(000)	PARTICIPANT'S COST \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)
	2010	1	8	0	8	0	0	8
	2011	1	15	0	17	0	0	17
	2012	2	23	0	25	0	0	25
	2013	2	31	0	33	0	0	33
	2014	3	39	0	41	0	0	41
	2015	4	46	0	50	0	0	50
	2016	.5	54	0	59	0	0	59
	2017	5	62	0	66	0	0	66
	2018	5	70	0	74	0	0	74
	2019	6	77	0	83	0	0	83
	2020	6	77	0	83	0	0	83
	2021	6	77	0	84	0	0	84
	2022	6	77	0	84	0	0	84
	2023	7	77	0	84	0	0	84
	2024	7	77	0	84	0	0	84
	2025	7	77	0	84	0	0	84
	2026	7	77	0	84	0	0	84
	2027	7	77	0	84	0	0	84
	2028	7	77	0	85	0	0	85
	2029	8	77	0	85	0	0	85
	2030	8	77	0	85	0	0	85
	2031	8	77	0	85	0	0	85
	2032	8	77	0	85	0	0	85
	2033	8	77	0	86	0	0	86
	2034	8	77	0	86	0	0	86
	2035	9	77	0	86	0	0	86
	2036	9	77	0	86	0	0	86
	2037	9	77	0	86	0	0	86
	2038	9	77	0	86	0	0	86
NOM	IINAL	177	1,892	0	2,069	0	0	2,069
NPV		52	611	0	663	0	0	663

Utility Discount Rate = 8.48
Benefit Cost Ratio = 9999

PROGRAM: Curtailable Service - TRC

			BENEFT	rs		COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	TOTAL	A VOIDED	A VOIDED	OTHER		TOTAL	UTILITY			
	FUEL & O&M	T&D CAP.	GEN. CAP.	PARTICIPANT	TOTAL	FUEL & O&M	PROGRAM	PARTICIPANT'S	TOTAL	NET
	SA VINGS	COSTS	COSTS	BENEFITS	BENEFITS	INCREASE	COSTS	COST	COSTS	BENEFIT
YEA R	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	1	0	0	0	1	0	0	0	0	. 1
2011	3	0	0	0	3	0	1	0	1	2
2012	3	0	0	0	3	0	1	0	1	2
2013	48	0	92	0	140	0	2	0	2	139
2014	0	0	182	0	182	2	2	0	4	178
2015	0	0	222	0	222	30	3	0	33	189
2016	10	0	367	0	377	0	3	0	3	374
2017	106	0	440	0	546	0	4	0	4	542
2018	99	0	391	0	491	0	4	0	4	487
2019	83	0	444	0	527	0	5	0	5	522
2020	77	0	453	0	530	0	5	0	5	525
2021	35	0	463	0	497	0	5	0	5	492
2022	174	0	253	0	427	0	5	0	5	422
2023	192	0	422	0	614	0	5	0	5	609
2024	58	0	441	0	499	0	5	0	5	494
2025	31	0	448	0	479	0	5	0	5	474
2026	174	0	295	0	469	0	5	0	5	464
2027	66	()	534	0	600	0	5	0	5	595
2028	59	0	547	0	606	0	5	0	5	601
2029	220	0	428	0	647	0	5	0	5	642
2030	242	0	715	0	956	0	5	0	5	951
2031	247	0	744	0	990	0	5	0	5	985
2032	249	0	773	0	1,022	0	5	0	5	1,017
2033	243	0	804	0	1,047	0	5	0	5	1,042
2034	255	0	836	0	1,091	0	5	0	5	1,086
2035	247	0	870	0	1,117	0	5	0	5	1,112
2036	242	0	905	0	1,147	0	5	0	5	1,142
2037	250	0	941	0	1,191	0	5	0	5	1,186
2038	258	0	978	0	1,236	0	5	0	5	1,231
OMINAL	3,668	0	13,987	0	17,654	32	118	0	149	17,505
PV	855	0	3,652	0	4,508	21	36	0	57	4,450

Utility Discount Rate = 8.48 Benefit Cost Ratio = 78.800 J. BUSINESS ENERGY RESPONSE PROGRAM

Program Start Date:

Proposed to start in 2011

Program Description

This program will provide participating non-residential customers with prompt time-of-use

energy information, enabling the customer to utilize current energy usage data to identify

opportunities to reduce electric consumption during high peak/rate periods. Additionally, these

customers will have the opportunity to take advantage of the critical peak rebate incentive that

will be offered upon approval of this demand response program and associated tariff sheet

(GSDR). This critical peak rebate will be provided to the qualifying non-residential customers

during critical peak times to encourage the customer to reduce load during these peak events by

allowing direct load control of their air-conditioning systems and/or interfacing with their energy

management systems.

There will be a phased infrastructure enhancement plan and implementation that will enable

advanced remote metering, direct load control & energy management system demand response

interfaces, provide customers with more frequent interval meter data including the addition of a

two-way communications network, and a Meter Data Management System with a customer-

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accessible energy usage and reporting web portal.

Goals of the program are:

- Provide non-residential customers alternative methods/technologies to reduce their electricity cost and contribute to Progress Energy's overall energy and demand reduction goals
- Reduce on-peak demand and energy usage
- Provide low-cost added-value data services (i.e. detailed energy usage reports) in lieu of monthly incentives to lower overall program cost
- Incent participants for only energy/demand benefits actually provided and measured
- Implement the necessary metering & communications technology to support this program
 and create the opportunity for other energy efficiency programs to be added in the future.
 This infrastructure will allow Progress Energy to match the American Recovery and
 Reinvestment Act stimulus grant funds awarded by the Department of Energy.
- Total participation goal is approximately 85,000 AMI web portal (access) non-residential customers by 2019 with many participants upgrading to other energy efficiency programs by the end of 2019 resulting in additional demand and energy reductions

Policies and Procedures

Incentives will be based on measured demand reduction compared to a benchmark average demand established over a period just prior to the critical peak event day.

The program eligibility requirements to qualify for participation are as follows:

General Requirements:

- Meet program specific requirements to ensure needed technology is compatible and expected load reduction is feasible as will be indicated in the GSDR tariff sheet
- The building/facility must be a Progress Energy non-residential tariff type with a time of use or demand rate or have an existing time of use or demand meter
- The building/facility must have an approved Progress Energy "smart meter" that is connected to the Progress Energy Advanced Metering Infrastructure/Demand Response network with two-way communications active (provided by Progress Energy)
- The metering and DR equipment/installation must be considered cost effective by Progress Energy
- The non-residential participant must agree to participate for a minimum number of control events if demand response equipment is installed
- Exceptions to the non-residential tariff type requirement may be made in the event the commercial customer is out of our AMI range, resulting in the need to install meters/gateways to complete the two-way communications network to the customer or if interval data is needed on that residential customer for research purposes
- Participant must allow Progress Energy and/or its contractor access to all equipment on this program when required by Progress Energy

Incentive Levels and specific eligibility requirements for each feature promoted in this
program will be presented in the Program Participation Standards.

Program Participation

Annual participation estimates for the Business Energy Response program are shown in the following table.

		Total Number of	Annual Number	
		Measure	of Program	Cumulative
	Total Number of	Eligible	Measure	Penetration
Year	Customers (1)	Customers (2)	Participants (3)	Level (%) (4)
2011	170,886	170,886	7	0.0%
2012	175,147	175,147	904	0.5%
2013	178,542	178,542	6,905	4.4%
2014	182,030	182,030	9,904	9.7%
2015	185,461	185,461	15,904	18.1%
2016	188,717	188,717	15,905	26.2%
2017	191,817	191,817	15,904	34.1%
2018	194,809	194,809	15,904	41.8%
2019	197,848	197,848	10,814	46.6%

^{1.} Total Number of Customers is the forecast of commercial/industrial (C/I) customers in the Progress Energy 2009 Ten Year Site Plan.

^{2.} All commercial, industrial and governmental rate classes are eligible to participate. Note: There are three levels of participation and customers may participant in more than one.

^{3.} Number of program participants represents the participants projected.

^{4.} Cumulative penetration is the ratio of projected measure participating customers to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating the total savings for each individual measure based on each measure's per customer savings and, annual projected participation. The total program savings were then computed as the sum of the individual measure savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	-	0.00	118.16	-	-	827
2012	-	0.00	7.13	-	-	6,445
2013	1,716	0.47	1.40	10,398,501	3,212	9,662
2014	1,716	0.49	1.14	15,597,752	4,817	11,263
2015	1,716	0.50	0.91	25,996,253	8,029	14,474
2016	1,716	0.50	0.91	25,996,253	8,029	14,479
2017	1,716	0.50	0.91	25,996,253	8,029	14,474
2018	1,716	0.50	0.91	25,996,253	8,029	14,474
2019	1,716	0.49	1.05	17,330,835	5,353	11,379

At the Generator

		Per Customer	Per Customer		Total Annual	Total Annual
	Per Customer	Winter KW	Summer KW	Total Annual	Winter KW	Summer KW
Year	KWh Reduction	Reduction	Reduction	KWh Reduction	Reduction	Reduction
2011	-	0.00	124.63		-	872
2012	-	0.00	7.52	-	-	6,798
2013	1,810	0.49	1.48	10,967,299	3,387	10,190
2014	1,810	0.51	1.20	16,450,949	5,081	11,879
2015	1,810	0.53	0.96	27,418,248	8,468	15,266
2016	1,810	0.53	0.96	27,418,248	8,468	15,271
2017	1,810	0.53	0.96	27,418,248	8,468	15,266
2018	1,810	0.53	0.96	27,418,248	8,468	15,266
2019	1,810	0.52	1.11	18,278,832	5,646	12,002

^{1. 2011} and 2012 contain demand values for summer participants only.

The measure that affects energy is available in years 2013 thru 2019.

Impact Evaluation Plan

Baseline energy and demand usage will be collected from participants to create a statistically valid baseline for winter and summer peak impact evaluation. This baseline will be compared to participants' energy and demand actual data to determine program impacts. In addition, the program requires actual demand comparison before incentives are paid out.

Cost-Effectiveness

The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$338,403	\$297,608	\$40,795	1.14
Participant	\$166,203	\$0	\$166,203	9999
Total Resource Cost	\$338,403	\$131,405	\$206,998	2.58

PROGRAM: Business Energy Response - RIM

			BENEFITS						COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	TOTAL	A VOIDED	A VOIDED			TOTAL	INCREA SED	INCREASED	UTILITY				
	FUEL & O&M	T&D CAP.	GEN. CAP.	REVENUE	TOTAL	FUEL & O&M	T&D CAP.	GEN. CAP.	PROGRAM	INCENTIVE	REVENUE	TOTAL	NET
	SA VINGS	COSTS	COSTS	GAINS	BENEFITS	INCREASE	COSTS	COSTS	COSTS	PA YMENTS	LOSSES	COSTS	BENEFII
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	5	0	0	0	5	0	0	0	10,940	50	3	10,993	-10,988
2011	7	0	0	0	7	0	0	0	13,780	66	5	13,851	-13,844
2012	9,439	585	0	0	10,024	0	0	0	20,734	194	9,339	30,267	-20,243
2013	20,588	995	6,833	0	28,416	0	0	0	24,301	322	16,765	41,388	-12,971
2014	14,705	995	14,287	0	29,987	76	0	0	21,551	450	17,498	39,575	-9,587
2015	15,799	995	17,343	Q	34,137	755	0	0	21,108	578	19,187	41,627	-7,490
2016	21,330	995	5,590	0	27,916	0	0	0	19,847	705	18,889	39,441	-11,526
2017	18,064	995	11,468	0	30,527	0	.0	0	16,634	833	16,370	33,837	-3,310
2018	21,707	995	24,557	0	47,259	0	0	0	12,966	961	15,674	29,601	17,659
2019	21,301	995	26,546	0	48,843	0	0	0	10,218	1,010	16,409	27,638	21,205
2020	21,328	995	26,239	0	48,562	0	0	0	8,343	1,010	16,892	26,245	22,317
2021	20,062	995	27,736	0	48,793	0	0	0	7,446	1,010	18,282	26,739	22,055
2022	26,688	995	12,328	0	40,011	0	0	0	6,934	1,010	18,439	26,384	13,627
2023	28,736	995	20,599	0	50,330	0	0	0	5,241	1,010	18,898	25,150	25,180
2024	22,729	995	28,753	0	52,477	0	0	0	3,294	1,010	19,277	23,581	28,896
2025	22,101	995	29,640	0	52,736	0	0	0	2,709	1,010	19,789	23,509	29,227
2026	29,665	995	14,489	0	45,149	0	0	0	2,574	1,010	20,246	23,830	21,319
2027	24,986	995	35,271	0	61,252	0	0	0	2,371	1,010	20,692	24,073	37,178
2028	24,502	995	28,191	0	53,688	0	0	0	2,092	1,010	21,163	24,266	29,422
2029	26,767	995	7.254	0	35,016	0	0	0	1,687	1,010	21,770	24,467	10,549
2030	28,311	995	12,393	0	41,699	0	0	0	1,930	1,010	22,266	25,207	16,492
2031	29.254	995	12,787	0	43,036	0	0	0	2,175	1,010	22,777	25,963	17,074
2032	30,279	995	13.227	0	44,501	0	0	0	2,686	1,010	23,239	26,935	17,565
2033	31,193	995	13,940	0	46,128	0	0	0	2,643	1,010	23,826	27,479	18,649
2034	31,757	995	14,097	0	46,849	0	0	0	2,770	1,010	24,258	28,039	18,810
2035	33,317	995	14.967	0	49,279	0	0	0	2,912	1,010	24,891	28,814	20,465
2036	34,539	995	15,674	0	51,207	0	0	0	2,818	1,010	25,469	29,297	21,910
2037	35,549	995	16,113	0	52,657	0	0	0	8,298	1,010	26,085	35,393	17,263
OMINAL	644,702	25,464	450,324	0	1,120,490	831	0	0	241,001	23,357	518,397	783,587	336,903
PV	188,953	8,450	141,000	0	338,403	514	0.	0	130,891	6,944	159,259	297,608	40,795

Utility Discount Rate = 8.48
Benefit Cost Ratio = 1.137

PROGRAM: Business Energy Response - Participant

		BEN	EFITS			COSTS		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SA VINGS IN		OTHER		P	ARTICIPANT'S	3	NET BENEFIT
	PARTICIPANT'	INCENTIVE	'ARTICIPANT'	TOTAL	PARTICIPANT'	BILL	TOTAL	TO
	BILL	PA YMENTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	PARTICIPANT
YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2010	3	50	0	53	0	0	0	53
2011	5	66	0	71	0	.0	0	71
2012	9,339	194	0	9,533	0	0	0	9,533
2013	16,765	322	0	17,087	0	0	0	17,087
2014	17,498	450	0	17,947	0	0	0	17,947
2015	19,187	578	0	19,764	0	0	0	19,764
2016	18,889	705	0	19,594	0	0	0	19,594
2017	16,370	833	0	17,203	0	0	0	17,203
2018	15,674	961	0	16,635	0	0	0	16,635
2019	16,409	1,010	0	17,420	0	0	0	17,420
2020	16,892	1,010	0	17,902	0	0	0	17,902
2021	18,282	1,010	0	19,293	0	0	0	19,293
2022	18,439	1,010	0	19,450	0	0	0	19,450
2023	18,898	1,010	0	19,909	0	0	0	19,909
2024	19,277	1,010	0	20,287	0	0	0	20,287
2025	19,789	1,010	0	20,800	0	0	0	20,800
2026	20,246	1,010	0	21,256	0	0	0	21,256
2027	20,692	1,010	0	21,702	0	0	0	21,702
2028	21,163	1,010	0	22,174	0	0	0	22,174
2029	21,770	1,010	0	22,780	0	0	0	22,780
2030	22,266	1,010	0	23,277	0	0	0	23,277
2031	22,777	1,010	0	23,788	0	0	0	23,788
2032	23,239	1,010	0	24,249	0	0	0	24,249
2033	23,826	1,010	0	24,836	0	0	0	24,836
2034	24,258	1,010	0	25,269	0	0	0	25,269
2035	24,891	1,010	0	25,902	0	0	0	25,902
2036	25,469	1,010	0	26,479	0	0	0	26,479
2037	26,085	1,010	. 0	27,095	0	0	0	27,095
OMINAL	518,397	23,357	0	541,754	0	0	0	541,754
IPV	159,259	6,944	0	166,203	0	0	0	166,203

Utility Discount Rate = 8.48

Benefit Cost Ratio = 9999

PROGRAM: Business Energy Response - TRC

		-		BENEFITS					CC	STS			
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
		TOTAL	A VOIDED	A VOIDED	OTHER			TOTAL		INCREASED	UTILITY		
		FUEL & O&M		GEN. CAP.		TOTAL	PARTICIPANT'S			GEN. CAP.	PROGRAM	TOTAL	NET
		SA VINGS	COSTS	COSTS	BENEFITS	BENEFITS	COST	INCREASE	COSTS	COSTS	COSTS	COSTS	BENEFITS
-	YEAR	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
	2010	5	0	0	0	5	0	0	0	0	10,940	10,940	-10,936
	2011	7	0	0	0	7	0	0	0	0	13,780	13,780	-13,772
	2012	9,439	585	0	0	10,024	0	0	0	0	20,734	20,734	-10,709
	2013	20,588	995	6,833	0	28,416	0	0	0	0	24,301	24,301	4,115
	2014	14,705	995	14,287	0	29,987	0	76	0	0	21,551	21,628	8,360
	2015	15,799	995	17,343	0	34,137	0	755	0	0	21,108	21,863	12,275
	2016	21,330	995	5,590	0	27,916	0	0	0	0	19,847	19,847	8,068
	2017	18,064	995	11,468	0	30,527	0	0	0	0	16,634	16,634	13,893
	2018	21,707	995	24,557	0	47,259	0	0	0	0	12,966	12,966	34,293
	2019	21,301	995	26,546	0	48,843	0	0	0	0	10,218	10,218	38,625
	2020	21,328	995	26,239	0	48,562	0	0	0	0	8,343	8,343	40,219
	2021	20,062	995	27,736	0	48,793	0	0	0	0	7,446	7,446	41,348
	2022	26,688	995	12,328	0	40,011	0	0	0	0	6,934	6,934	33,077
	2023	28,736	995	20,599	0	50,330	0	0	0	0	5,241	5,241	45,089
	2024	22,729	995	28,753	0	52,477	0	0	0	0	3,294	3,294	49,184
	2025	22,101	995	29,640	0	52,736	0	0	0	0	2,709	2,709	50,027
	2026	29,665	995	14,489	0	45,149	0	0	0	0	2,574	2,574	42,576
	2027	24,986	995	35,271	0	61,252	0	0	0	0	2,371	2,371	58,881
	2028	24,502	995	28,191	0	53,688	0	0	0	0	2,092	2,092	51,596
	2029	26,767	995	7,254	0	35,016	0	0	0	0	1,687	1,687	33,329
	2030	28,311	995	12,393	0	41,699	0	0	0	0	1,930	1,930	39,769
	2031	29,254	995	12,787	0	43,036	0	0	0	0	2,175	2,175	40,861
	2032	30,279	995	13,227	0	44,501	0	0	0	0	2,686	2,686	41,815
	2033	31,193	995	13,940	0	46,128	0	0	0	0	2,643	2,643	43,485
	2034	31,757	995	14,097	0	46,849	0	0	0	0	2,770	2,770	44,078
	2035	33,317	995	14,967	0	49,279	0	0	0	0	2,912	2,912	46,367
	2036	34,539	995	15,674	0	51,207	0	0	0	0	2,818	2,818	48,389
	2037	35,549	995	16,113	0	52,657	0	0	0	0	8,298	8,298	44,358
N	OMINAL	644,702	25,464	450,324	0	1,120,490	0	831	0	0	241,001	241,832	878,658
NI	PV	188,953	8,450	141,000	0	338,403	0	514	0	0	130,891	131,405	206,998

Utility Discount Rate = 8.48 Benefit Cost Ratio = 2.575

VI. DEMAND-SIDE RENEWABLE PORTFOLIO

The Demand Side Renewable Portfolio was designed to emphasize the benefits of solar photovoltaic technology and encourage the development of renewable programs, with an added focus placed on low-income and education pilots. Additionally, Progress Energy endeavored to collaborate with state initiatives and provide interested customers with the option to voluntarily support renewable efforts. This portfolio encourages education of energy efficiency by recommending an energy audit be performed on the home or business prior to participation.

The Demand-Side Renewable Energy Portfolio is comprised of the following pilot programs:

- Solar Water Heating for Low-income Residential
- Solar Water Heating with Energy Management
- Residential Solar Photovoltaic
- Commercial Solar Photovoltaic
- Photovoltaic for Schools
- Research & Demonstration

Incentive levels and specific eligibility requirements for the initial measures promoted in these pilot programs will be presented in the Program Participation Standards. Customer participation

will be evaluated on an on-going basis; funds may be moved from one pilot program to another based upon actual participation. Progress Energy will implement these pilot programs over a five-year period to evaluate the system impacts.

A. SOLAR WATER HEATING FOR LOW INCOME RESIDENTIAL CUSTOMERS PILOT

Program Start Date:

Proposed to start in 2011

Program Description

The Solar Water Heating for the Low-income Residential Customers Pilot is a custom renewable

energy measure designed to assist low-income families with energy costs by incorporating a

solar thermal water heating system in their residence while it is under construction. Progress

Energy will collaborate with non-profit builders to provide low-income families with a

residential solar thermal water heater. The solar thermal system will be provided at no cost to

the non-profit builders or the residential participants.

Policies and Procedures

The incentive for this program is the total cost of the solar thermal system plus the associated

installation cost. The program will be limited to a targeted annual incentive cap of \$114,000.

The incentive cap for this program has been revised from the value stated in PEF's DSM

Program Plan as filed on March 30, 2010, due to a scrivener's error found in the development of

this revised Plan, and the correction is being made with this filing.

Program Participation

Annual participation estimates for the Solar Water Heating for Low Income Residential Customers Pilot program are shown in the table below:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2011	1,473,688	896	30	3.3%
2012	1,495,098	864	30	6.9%
2013	1,521,451	817	30	11.0%
2014	1,548,531	753	30	15.9%

All numbers annual except cumulative penetration level

^{1.} Total Number of Customers is the forecast of all residential customers from the Progress Energy 2009 Ten Year Site Plan.

^{2.} Eligible customers based on U.S. Census block data for income qualifications.

Annual number of program participants represents the projected number of low-income homes to participate in this pilot annually. There are no new participants beyond the 5-year time frame of this Pilot.

^{4.} Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total pilot savings were developed by first estimating per customer savings and, annual projected participation. The total pilot savings were then computed as the product of those two variables for each year, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	2,314	0.40	0.37	69,420	12	11
2012	2,314	0.40	0.37	69,420	12	11
2013	2,314	0.40	0.37	69,420	12	11
2014	2,314	0.40	0.37	69,420	12	11

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	2,466	0.43	0.39	74,295	13	12
2012	2,466	0.43	0.39	74,295	13	12
2013	2,466	0.43	0.39	74,295	13	12
2014	2,466	0.43	0.39	74,295	13	12

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

Impact Evaluation Plan

Maintain record of capacity of systems installed.

Cost-Effectiveness

The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$359	\$906	-\$547	0.4
Participant	\$745	\$392	\$353	1.9
Total Resource Cost	\$359	\$553	-\$194	0.65

B. SOLAR WATER HEATING WITH ENERGY MANAGEMENT PROGRAM

Program Start Date:

2007

Proposed modification in 2011

Program Description

The Solar Water Heating with Energy Management Program encourages residential customers to

install new solar thermal water heating systems on their residence. This program incorporates a

long standing cost effective Demand Side Management program with the requirement for

customers to participate in our residential demand response program.

Policies and Procedures

There are two incentives associated with this program. First, participants will receive a one-time

\$550 rebate designed to reduce the upfront cost of the renewable energy system. Second,

participants will receive a monthly bill credit associated with their participation in the residential

demand response program.

This program was designed with the support and input of the solar industry. The program will

record participant occupancy levels to capture the most accurate energy savings. The program

will be limited to a targeted annual incentive cap of \$1,237,500.

Program Participation

Annual participation estimates for the Solar Water Heating with Energy Management program are shown in the table below:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) ⁽⁴⁾
2011	1,473,688	1,223,161	2,250	0.2%
2012	1,495,098	1,240,931	2,250	0.4%
2013	1,521,451	1,262,804	2,250	0.5%
2014	1,548,531	1,285,281	2,250	0.7%

^{1.} Total Number of Customers is the forecast of all residential customers from the Progress Energy 2009 Ten Year Site Plan.

^{2.} Eligible customers is the total number of customers less existing participation

^{3.} Annual number of program participants represents the projected number of homes to be involved in this pilot by year. There are no new participants beyond the 5-year time frame of this Pilot.

^{4.} Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total program savings were developed by first estimating per customer savings and, annual projected participation, multiplied by measure. The total program savings were then computed as the sum of the individual customer savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1,718	2.14	1.11	3,865,725	4,815	2,491
2012	1,718	2.14	1.11	3,865,725	4,815	2,491
2013	1,718	2.14	41.11	3,865,725	4,815	2,491
2014	1,718	2.14	1.11	3,865,725	4,815	2,491

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	1,831	2.28	1.18	4,137,209	5,153	2,666
2012	1,831	2.28	1.18	4,137,209	5,153	2,666
2013	1,831	2.28	1.18	4,137,209	5,153	2,666
2014	1,831	2.28	1.18	4,137,209	5,153	2,666

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

Impact Evaluation Plan

Maintain record of capacity of systems installed.

Cost-Effectiveness

The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$34,097	\$28,707	\$5,390	1.19
Participant	\$33,388	\$28,811	\$4,577	1.16
Total Resource Cost	\$41,138	\$31,171	\$9,967	1.32

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

C. RESIDENTIAL SOLAR PHOTOVOLTAIC PILOT

Program Start Date:

Proposed to start in 2011

Program Description

The Solar PV pilot encourages residential customers to install new solar photovoltaic (PV)

systems on their home. This pilot promotes the installation of renewable energy on energy

efficient homes by requiring customers to participate in at least one residential energy efficiency

measure. The program design includes an annual reservation process for pre-approval to ensure

the incentive expenditure cap is available for participation.

Goals of the program are:

• Provide residential customers with a higher return on investment in PV systems

• Increase renewable energy generation on Progress Energy's system

• Increase participation in existing residential Demand Side Management measures

Policies and Procedures

This program will provide participating residential customers a rebate of up to \$2.00 per Watt of

the PV dc power rating up to a \$20,000 maximum for installing a new photovoltaic system. This

rebate is designed to reduce the initial investment required to install a qualified renewable solar

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energy system. The program will be limited to a targeted annual incentive cap of \$1,000,000 per year.

Participation with this program is intended to support and collaborate with state initiatives. As such, Progress Energy anticipates these rebates would be used with state funds to limit Florida residents to a maximum incentive of \$4.00 per Watt total when all state, local, and utility incentives are combined. Progress Energy will work with our customers to endeavor to not to exceed this incentive cap.

Program Participation

Annual participation estimates for the Residential Solar Photovoltaic Pilot program are shown in the table below:

	As done is	31 W 4, 1 148		
	Kalaradenio arta en la	Total Number of Measure	of Program	Cumulative
Year	Total Number of Customers (1)	Eligible Customers (2)	Measure Participants (3)	Penetration Level (%) ⁽⁴⁾
2011	1,473,688	1,473,688	100	0.0%
2012	1,495,098	1,495,098	100	0.0%
2013	1,521,451	1,521,451	100	0.0%
2014	1,548,531	1,548,531	100	0.0%

All numbers annual except cumulative penetration level

- 1. Total Number of Customers is the forecast of all Residential customers from the Progress Energy 2009 Ten Year Site Plan.
- 2. Eligible customers represent all residential customers.
- Annual number of program participants represents the projected number of homes to be involved in this pilot by year. There
 are no new participants beyond the 5-year time frame of this Pilot.
- 4. Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total pilot savings were developed by first estimating per customer savings and, annual projected participation, multiplied by measure. The total pilot savings were then computed as the sum of the individual customer savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	8,340	0.00	1.58	833,960	-	158
2012	8,340	0.00	1.58	833,960	• · · · · · · · · · · · · · · · · · · ·	158
2013	8,340	0.00	1.58	833,960	-	158
2014	8,340	0.00	1.58	833,960	-	158

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	8,887	0.00	1.68	892,528		169
2012	8,887	0.00	1.68	892,528	140	169
2013	8,887	0.00	1.68	892,528	-	169
2014	8,887	0.00	1.68	892,528		169

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

Annual incremental coincident winter KW reductions for this Pifot program are de minimize and round to zero.

Impact Evaluation Plan

Maintain record of capacity of systems installed.

Cost-Effectiveness

The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$(000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$4,469	\$8,761	-\$4,292	0.51
Participant	\$11,361	\$13,958	-\$2,597	0.81
Total Resource Cost	\$7,511	\$14,400	-\$6,889	0.52

D. COMMERCIAL SOLAR PHOTOVOLTAIC PILOT

Program Start Date:

Proposed to start in 2011

Program Description

Solar PV pilot encourages Commercial customers to install new solar photovoltaic (PV) systems on their facilities. This pilot promotes the installation of renewable on energy efficient businesses by requiring customers to participate in at least one commercial energy efficiency measure. The program design includes an annual reservation process for pre-approval to ensure the incentive expenditure cap is available for participation. The program design also provides commercial customers with a higher return on investment in PV systems designed to:

- Increase renewable energy generation on Progress Energy's system
- Increase participation in existing Commercial Demand Side Management measures

Policies and Procedures

This program will provide participating commercial customers who install a new photovoltaic system with a tiered rebate up to the following incentive levels, based on the PV dc power rating:

- \$2.00 per Watt for the first 10 KW
- \$1.50 per Watt for 11KW to 50 KW
- \$1.00 per Watt for 51KW to 100 KW

The rebate is designed to reduce the initial investment required to install a qualified renewable solar energy system. Total incentives per participant will be limited to \$130,000, based on a maximum installation of 100KW. Program design includes an annual reservation process for pre-approval to ensure the incentive expenditure cap is available for participation. The program will be limited to a targeted annual incentive cap of \$1,000,000 per year.

Participation with this program is intended to support and collaborate with state initiatives. As such, Progress Energy anticipates these rebates would be used with state funds to limit Florida business owners to a maximum incentive of \$4.00 per Watt total when all state, local, and utility incentives are combined. Progress Energy will work with our customers to endeavor to not to exceed this incentive cap.

Program Participation

Participation estimates for the Commercial Solar Photovoltaic Pilot program are shown in the following table:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2011	170,886	7,524	23	0.3%
2012	175,147	7,562	23	0.6%
2013	178,542	7,600	23	0.9%
2014	182,030	7,638	23	1.2%

All numbers annual except cumulative penetration level

- Total Number of Customers is the forecast of all Commercial/Industrial customers from the Progress Energy 2009 Ten Year Site Plan
- Eligible customers are the estimated number of customers with electric water heater that qualifies for the load management program.
- 3. Annual number of program participants represents the projected number of commercial participants in this pilot annually. There are no new participants beyond the 5-year time frame of this Pilot.
- 4. Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total pilot savings were developed by first estimating per customer savings and annual projected participation, multiplied by measure. The total pilot savings were then computed as the sum of the individual customer savings, and are shown in the following tables.

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	41,698	-	7.87	959,052	-	181
2012	41,698	=	7.87	959,052	•	181
2013	41,698		7.87	959,052		181
2014	41,698		7.87	959,052		181

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	44,158	n in the tradition	8.33	1,019,184	auto), de le telegrad	192
2012	44,158		8.33	1,019,184	The part of the part of	192
2013	44,158	(=)	8.33	1,019,184	-	192
2014	44,158	-	8.33	1,019,184	-	192

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

Annual incremental coincident winter kW reductions for this Pilot program are De Mínimus and round to zero.

Impact Evaluation Plan

Maintain record of capacity of systems installed.

Cost-Effectiveness

The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$5,119	\$8,809	-\$3,690	0.58
Participant	\$10,904	\$12,714	-\$1,810	0.86
Total Resource Cost	\$7,713	\$13,213	-\$5,500	0.58

E. PHOTOVOLTAIC FOR SCHOOLS PILOT

Program Start Date:

Proposed to start in 2010

Program Description

The Schools Pilot is designed to assist schools with energy costs while promoting energy education. This program will provide participating public schools with new photovoltaic systems at no cost to the school. These systems will be installed, owned, operated and maintained by Progress Energy for a period of 5 years, after which the school assumes ownership and system benefits.

Goals of the program are:

- Eliminate the initial investment required to install a renewable solar PV system
- Increase renewable energy generation on Progress Energy's system
- Increase participation in existing residential Demand Side Management measures through energy education
- Increase solar education and awareness in Progress Energy communities and schools

Policies and Procedures

This program will fully fund the PV systems that are installed on the participating public schools. These schools will enter an agreement allowing Progress Energy to own and operate the system for an initial 5 year period. Progress Energy will record the total PV system and installation cost

as a regulatory asset to be amortized over five years. After the 5-year contract period, the school will assume ownership of the PV system. Customers will apply for participation in this program. The program will be limited to an annual target of one system with a rating up to 100 KW installed on a post secondary public school and (10) 10 KW systems with battery backup option installed on public schools, preferably serving as emergency shelters.

Post secondary school participation will be prioritized based on attendance and consumption associated with their main campus. Public schools will be selected using a competitive process that aligns with Florida's SunSmart E-Shelters Program Application with an emphasis placed on the schools commitment to energy efficiency and renewable energy education.

The incentive for this program is the total equipment cost of the solar PV system plus the associated installation, operation and maintenance cost for the first five years. The solar PV system and installation will be considered a rebate that will eliminate the cost to the customer for providing new renewable energy system on their facilities.

This program places an emphasis on energy education and promotes environmental stewardship. As such, customers participating in the Winter-Only Energy Management or Year Round Energy Management residential demand response programs can elect to contribute their monthly credit toward a fund design to support and promote energy education. The fund will accumulate associated participant credits for a period of two years, at which time the customer may elect to renew for an additional two years. All proceeds collected from participating customers and their associated monthly credits will be used to promote energy efficiency and renewable energy educational opportunities.

Program Participation

Projected participation projections for K-12:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2011	170,886	100	10	10.0%
2012	175,147	101	10	19.8%
2013	178,542	102	10	29.4%
2014	182,030	103	10	38.8%

All numbers annual except cumulative penetration level

- 1. Total Number of Customers is the forecast of all Commercial customers from the Progress Energy 2009 Ten Year Site Plan.
- 2. Eligible customer projections represent the projected number of K-12 schools in the Progress Energy service area that also serve as an emergency shelter.
- 3. Annual number of program participants represents the projected number of K-12 schools participants in this pilot by year. There are no new participants beyond the 5-year time frame of this Pilot.
- 4. Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Projected participation projections for post secondary:

Year	Total Number of Customers (1)	Total Number of Measure Eligible Customers (2)	Annual Number of Program Measure Participants (3)	Cumulative Penetration Level (%) (4)
2011	170,886	11	1	9.0%
2012	175,147	11	1	17.8%
2013	178,542	11	1	26.5%
2014	182,030	11	1	34.9%

All numbers annual except cumulative penetration level

- 1. Total Number of Customers is the forecast of all Commercial customers from the Progress Energy 2009 Ten Year Site Plan.
- Eligible customer projections represent the projected number of post secondary schools in the Progress Energy service area that also serve as an emergency shelter.
- Annual number of program participants represents the projected number of post secondary schools participants in this pilot by year.
 There are no new participants beyond the 5-year time frame of this Pilot.
- 4. Cumulative penetration is the ratio of cumulative participants to the eligible customer pool.

Savings Estimates

Total pilot savings were developed by first estimating per customer savings and, annual projected participation, multiplied by measure. The total pilot savings were then computed as the sum of the individual customer savings, and are shown in the following tables.

Projected savings estimates for K-12:

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	16679	The control of the state of the	3.20	166,792	iad# il. yi. ## ay	32
2012	16679	-	3.20	166,792	-	32
2013	16679	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.20	166,792	ri, tra esti	32
2014	16679	-	3.20	166,792		32

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	17663	.=/	3.39	177,250	-	34
2012	17663	_	3.39	177,250	-	34
2013	17663	-	3.39	177,250	-	34
2014	17663	Sec	3.39	177,250		34

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

Annual incremental coincident winter kW reductions for this Pilot program are De Minimus and round to zero.

Projected savings estimates for post secondary:

At the Meter

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	166,792	-	31.00	166,792	-	31
2012	166,792	-	31.00	166,792	-	31
2013	166,792	=	31.00	166,792	-	31
2014	166,792	_	31.00	166,792	<u> </u>	31

At the Generator

Year	Per Customer KWh Reduction	Per Customer Winter KW Reduction	Per Customer Summer KW Reduction	Total Annual KWh Reduction	Total Annual Winter KW Reduction	Total Annual Summer KW Reduction
2011	176,633	-	33	177,250	-	33
2012	176,633	-	33	177,250	-	33
2013	176,633	-	33	177,250	_	33
2014	176,633	-	33	177,250	-	33

The tables above show annual incremental savings for new participants in this 5-year Pilot program. There are no new participants and no new annual savings additions beyond the 5-year time frame of this Pilot.

Annual incremental coincident winter kW reductions for this Pilot program are De Minimus and round to zero.

Impact Evaluation Plan

Maintain record of capacity of systems installed.

Cost-Effectiveness

The economic results of the program are as follows:

Cost-Effectiveness Test	NPV Benefits \$(000)	NPV Costs \$ (000)	NPV Net Benefits \$(000)	B/C Ratio
Rate Impact Measure	\$1,681	\$7,913	-\$6,232	0.21
Participant	\$4,550	\$1,042	\$3,508	4.37
Total Resource Cost	\$5,100	\$7,824	-\$2,724	0.65

F. RESEARCH AND DEMONSTRATION PILOT

Program Start Date:

Proposed to start in 2011

Program Description

The purpose of this program component is to research technology and establish R&D initiatives to support the development of renewable energy pilot programs. Demonstration projects will provide real-world field testing to assist in the development of these initiatives. The program will be limited to a targeted annual expenditure cap of 5% of the total Demand-Side Renewable Portfolio annual expenditures.

Policies and Procedures

In general, each R&D project that is proposed and investigated will proceed as follows:

- Project concept or idea development
- Project research and design, including estimated costs and benefits
- Conduct field test, modeling, general research, and theoretical testing
- Each project will be designed to support the development of future solar and renewable energy pilot programs.

VII. TECHNOLOGY DEVELOPMENT PROGRAM

Program Start Date:

1995

Modifications proposed in 2010

Program Description

The purpose of this program is to establish a system for meeting the goals in Section 366.82(2),

Florida Statutes, and Rule 25-17, Florida Administrative Code. Progress Energy will undertake

certain research and demonstration projects which provide support for the development of cost-

effective demand reduction, energy efficiency, and alternative energy programs. Technical and

operational knowledge for the advances in the energy field may come from field demonstration

projects, research partnerships, webinars, general education, etc. The Technology Development

program is designed to allow Progress Energy to investigate technologies and support the

development of new programs from initial concept through submittal to the Commission for

consideration and approval. In general, each research and demonstration project that is proposed

and investigated will proceed as follows:

Project concept or idea development

• Project research and design, including estimated costs and benefits

• Conduct field testing, pilot program, modeling, general research, and theoretical testing

• Evaluation of collected data, including cost-effectiveness

- Acceptance or rejection of project for continuation as a program
- If accepted for continuation, application will be made to the Commission for approval to implement the program

Policies and Procedures

Eligible customers will be dependent on the type of project proposed and investigated as determined during the project research and design phase. Each project that is proposed and investigated will have to meet one or more of the goals identified in Section 366.82(2), Florida Statutes, and Rule 25-17, Florida Administrative Code. If not, the project will not proceed beyond the project concept or idea phase.

Program Participation

In many cases the demand reduction, energy efficiency, and alternative energy projects that are proposed and investigated under this program will require field testing with actual customers. After being defined in the project research and design phase, these projects will offer services or products to eligible customers on a voluntary basis.

Examples of potential projects that may be funded under this program include:

- Demand reduction, energy efficiency technologies, such as energy awareness devices
- Market transformation initiatives, such as smart charging for electric vehicles
- And other alternative energy and innovative technologies.

All costs will be included as part of the pre-approved project expenditures under this program.

Technology focused on energy efficiency, demand response, alternative energy, as well as innovations within the energy field in general have undergone significant development since 1995. With the current international focus in this arena, advances are even more rapid today. In addition, the way in which customers accept these products and the studies associated with how to offer products and services, further complicates the efficient and effective development of programs. In order to keep pace, an enhanced focus on research, demonstration, and development is needed.

At the discretion of Progress Energy, annual basis expenditures not to exceed \$2,000,000 annually, may be made and recovered through the Energy Conservation Cost Recovery clause for all research projects that are proposed and investigated. If any single project's expenditures exceed 25% of the pre-approved annual program budget, a status report will be filed as a component of the Energy Conservation Cost Recovery Clause Projection and True-Up filings.

The status report will identify each project under investigation with disbursements exceeding 25% of the pre-approved annual program budget, the scope and purpose of the project, its development schedule identifying accomplishments and projections, and the project's actual and proposed expenditures for Commission review. If total program expenditures are projected to exceed \$2,000,000 in a given year, Progress Energy will apply to the Commission staff for approval to proceed with the particular project which would cause Progress Energy to exceed the limit.

Finally, Progress Energy will account for and maintain records of all expenses for each project in accordance with Rule 25-17.015, Florida Administrative Code.

Savings Estimates

The Technology Development program makes it possible to obtain and use actual data from field tests, as well as customer and market research studies instead of relying heavily on engineering assumptions, model results, and estimates. Benefit and cost figures derived from these projects will be more accurate and provide enhanced reliability to forecasts, allowing better assessment of potential future demand reduction, energy efficiency, alternative, and innovative programs submitted to the Commission for approval.

A second benefit resulting from this research program is that the field tests, customer research and market evaluations uncover benefits, costs, and disadvantages that may be overlooked by an engineering estimate or evaluation. Real world testing provides actual experience on a small scale to be obtained. This should facilitate the decision-making process and improve the success rate of approved programs.

Consequently, program savings were not estimated during the planning stage and are not included in the Demand Side Management Plan totals. Any impacts obtained by this program will be calculated for each individual project and will be reported to the Commission to be counted toward achieving Progress Energy's conservation goals.

Impact Evaluation Plan

The methodology for monitoring and evaluating a project that is submitted to the Commission for approval as a program shall be determined during the project research and design phase and shall be refined during the field test or pilot program phase. Since projects will normally include a field test or pilot program, the data will be actual rather than estimated. In the event a project does not involve a field test or pilot program, the estimated or modeled savings will be documented with the methodology used.

Cost-Effectiveness

The cost-effectiveness of each project submitted to the Commission for approval to be implemented as a program shall be analyzed and reported using the Commission-approved cost-effectiveness tests.

VIII. QUALIFYING FACILITIES PROGRAM

Program Description

The purpose of this program is to meet the objectives and obligations established by Section 366.051, Florida Statutes, and the Commission's rules contained within Part III of Chapter 25-17, Florida Administrative Code, regarding the purchase of as-available energy and firm energy and capacity from qualifying facilities pursuant to standard offer and negotiated contracts.

Under the Qualifying Facilities program, Progress Energy develops standard offer contracts, negotiates, enters into, amends and restructures firm energy and capacity contracts entered into with qualifying cogeneration and small power production facilities, and administers all such contracts.

IX. STAFF-REQUESTED TABLES

The associated tables 1-3 provide a summary of cost effectiveness tests, demand and energy savings, and penetration rates for only those programs proposed with this Revised Goal Plan. Tables 4 and 5 are a summarization of program costs and ECCR rate impacts for all programs proposed in this filing, including the previously approved Demand Side Renewable Portfolio.

Staff-Requested Tables

Table IX-1: Savings

Residential Programs

The tables below indicate the total annual and cumulative saving impacts (Summer Demand MW, Winter Demand MW, and Annual Energy (GWh) for the Residential Programs included in the Original Goal Scenario, for years 2011 – 2019.

- Home Energy Check
- Home Energy Improvement
- Residential New Construction
- Neighborhood Energy Saver
- Low Income Weatherization Assistance
- Residential Energy Management
- Technical Potential

			Home Energy C	7
	Summer Demand	Winter Demand	Annual Energy	-
	(MW)	(MW)	(GWh)	
2011	10.89	6.71	28.88	
2012	10.98	6.72	29.21	
2013	10.92	6.66	29.11	
2014	10.88	6.61	29.05	
2015	10.90	6.60	29.17	
2016	10.64	6.42	28.52	
2017	10.62	6.39	28.53	
2018	10.58	6.34	28.48	
2019	10.55	6.30	28.43	

Cumulative	Cumulative	Cumulative
Summer Demand	Winter Demand	Annual Energy
10.89	6.71	28.88
21.87	13.42	58.09
32.79	20.08	87.19
43.67	26.69	116.25
54.57	33.29	145.41
65.21	39.71	173.94
75.83	46.10	202.46
86.41	52.44	230.94
96.96	58.74	259.37

			Home Energy Impr
	Summer Demand	Winter Demand	Annual Energy
	(MW)	(MW)	(GWh)
2011	29.83	46.12	65.46
2012	33.30	51.44	73.54
2013	35.30	56.12	79.33
2014	37.93	60.00	85.10
2015	49.40	77.71	110.14
2016	44.72	70.07	98.86
2017	42.54	66.43	93.24
2018	37.72	58.70	81.93
2019	34.12	52.93	73.44

vement		
Cumulative Summer Demand	Cumulative Winter Demand	Cumulative Annual Energy
29.83	46.12	65.46
63.14	97.56	139.00
98.43	153.68	218.33
136.36	213.68	303.44
185.77	291.39	413.58
230.48	361.45	512.44
273.03	427.88	605.68
310.74	486.58	687.62
344.86	539.50	761.05

			Residential New Co	nstr
	Summer Demand	Winter Demand	Annual Energy	П
	(MW)	(MW)	(GWh)	
2011	3.12	3.62	7.57	
2012	3.20	3.84	7.81	
2013	3.24	3.97	7.97	
2014	3.59	4.08	8.13	
2015	3.74	4.28	8.69	
2016	3.51	4.06	8.37	
2017	3.38	3.93	8.21	
2018	3.17	3.73	7.89	
2019	3.02	3.57	7.65	

Cumulative	Cumulative	Cumulative
Summer Demand	Winter Demand	Annual Energy
3.12	3.62	7.57
6.32	7.47	15.39
9.55	11.44	23.36
13.14	15.51	31.49
16.88	19.80	40.18
20.39	23.85	48.55
23.76	27.79	56.76
26.93	31.51	64.66
29.95	35.09	72.31

1			Neighborhood Ener	gy Saver
	Summer Demand	Winter Demand	Annual Energy	Cumula
	(MW)	(MW)	(GWh)	Summer D
2011	3.72	2.81	8.55	3.72
2012	3.84	2.90	8.82	7.56
2013	3.92	2.95	9.00	11.48
2014	4.00	3.01	9.18	15.48
2015	4.27	3.22	9.81	19.75
2016	4.12	3.10	9.45	23.8
2017	4.04	3.04	9.27	27.90
2018	3.88	2.92	8.91	31.78
2019	3.76	2.84	8.64	35.54

y Saver		
Cumulative	Cumulative	Cumulative
Summer Demand	Winter Demand	Annual Energy
3.72	2.81	8.55
7.56	5.70	17.37
11.48	8.66	26.37
15.48	11.67	35.55
19.75	14.89	45.36
23.87	17.99	54.81
27.90	21.03	64.08
31.78	23.96	72.99
35.54	26.79	81.63

			Low Income Weath	nerization		
	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)	Cumulative Summer Demand	Cumulative Winter Demand	Cumulative Annual Energy
2011	0.44	0.56	0.95	0.44	0.56	0.95
2012	0.55	0.65	1.17	0.99	1.21	2.12
2013	0.57	0.73	1.28	1.56	1.94	3.40
2014	0.54	0.68	1.29	2.10	2.62	4.69
2015	0.58	0.83	1.36	2.68	3.45	6.05
2016	0.65	1.07	1.37	3.33	4.53	7.43
2017	0.61	0.99	1.30	3.93	5.52	8.73
2018	0.55	0.93	1.27	4.48	6.44	9.99
2019	0.55	0.97	1.26	5.04	7.41	11.26

			Residential Energy M	anagement		
en e	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)	Cumulative Summer Demand	Cumulative Winter Demand	Cumulative Annual Energy
2011	9.11	17.55	0.00	9.11	17.55	0.00
2012	9.11	17.55	0.00	18.21	35.11	0.00
2013	9.11	17.55	0.00	27.32	52.66	0.00
2014	9.11	17.55	0.00	36.42	70.22	0.00
2015	9.11	17.55	0.00	45.53	87.77	0.00
2016	16.50	31.80	0.00	62.02	119.57	0.00
2017	16.50	31.80	0.00	78.52	151.37	0.00
2018	16.50	31.80	0.00	95.01	183.18	0.00
2019	11.53	22.23	0.00	106.54	205.40	0.00

	Technical Potential							
	Summer Demand	Winter Demand	Annual Energy		Cumulative	Cumulative	Cumulative	
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy	
2011	47.46	21.30	169.92		47.46	21.30	169.92	
2012	44.18	19.79	169.82		91.63	41.09	339.74	
2013	42.87	18.81	169.72		134.51	59.90	509.46	
2014	39.66	16.46	169.69		174.17	76.36	679.14	
2015	39.51	16.85	169.52		213.68	93.21	848.67	
2016	38.62	16.72	170.00		252.30	109.93	1018.67	
2017	40.72	18.87	170.00	**	293.02	128.80	1188.67	
2018	38.66	17.96	170.00		331.68	146.76	1358.67	
2019	37.06	16.90	170.00		368.73	163.66	1528.67	

Commercial Programs

The tables below indicate the total annual and cumulative saving impacts (Summer Demand MW, Winter Demand MW, and Annual Energy (GWh) for the Commercial Programs included in the Original Goal Scenario, for years 2011 – 2019.

- Business Energy Check
- Better Business
- Commercial/Industrial New Construction
- Business Energy Saver
- Commercial Green Building New Construction
- Innovation Incentive
- Standby Generation
- Interruptible Service
- Curtailable Service
- Business Energy Response

	Business Energy Check							
	Summer Demand	Winter Demand	Annual Energy		Cumulative	Cumulative	Cumulative	
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy	
2011	0.82	0.34	1.37		0.82	0.34	1.37	
2012	0.86	0.36	1.44		1.67	0.69	2.81	
2013	0.90	0.37	1.51		2.57	1.07	4.32	
2014	0.93	0.39	1.56		3.50	1.45	5.88	
2015	0.41	0.22	1.01		3.90	1.67	6.89	
2016	0.40	0.22	0.99		4.30	1.89	7.89	
2017	0.39	0.21	0.97		4.69	2.10	8.86	
2018	0.38	0.21	0.95		5.08	2.31	9.81	
2019	0.38	0.21	0.95		5.46	2.52	10.76	

			Better Busin	ess			
	Summer Demand	Winter Demand	Annual Energy		Cumulative	Cumulative	Cumulative
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy
2011	9.15	3.85	25.99		9.15	3.85	25.99
2012	10.04	4.15	28.64		19.19	8.00	54.63
2013	6.81	2.77	19.46		26.00	10.76	74.09
2014	5.49	2.16	15.75		31.48	12.92	89.84
2015	4.72	1.83	13.57		36.20	14.75	103.42
2016	3.46	1.34	9.96		39.66	16.09	113.38
2017	2.86	1.11	8.25		42.52	17.20	121.63
2018	3.33	1.29	9.59		45.85	18.49	131.22
2019	3.82	1.48	10.99		49.66	19.96	142.21

		Com	mercial/Industrial Ne	w Construction		
	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)	Cumulative Summer Demand	Cumulative Winter Demand	Cumulative Annual Energy
2011	1.38	0.56	3.52	1.38	0.56	3.52
2012	1.42	0.58	3.60	2.80	1.14	7.11
2013	1.49	0.82	3.60	4.28	1.96	10.71
2014	1.50	0.82	3.64	5.79	2.78	14.35
2015	1.43	0.80	3.36	7.21	3.58	17.71
2016	1.39	0.78	3.25	8.60	4.36	20.96
2017	1.35	0.76	3.13	9.95	5.12	24.09
2018	1.33	0.75	3.07	11.28	5.87	27.16
2019	1.29	0.73	2.98	12.56	6.60	30.13

a. 4 Å sa	Business Energy Saver										
	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)	Cumulative Summer Demand	Cumulative Winter Demand	Cumulative Annual Energy					
2011	0.17	0.04	0.24	0.17	0.04	0.24					
2012	0.21	0.05	0.29	0.38	0.10	0.54					
2013	0.21	0.05	0.29	0.59	0.15	0.83					
2014	0.21	0.05	0.29	0.79	0.20	1.12					
2015	0.21	0.05	0.29	1.00	0.25	1.41					
2016	0.21	0.05	0.29	1.21	0.30	1.70					
2017	0.21	0.05	0.29	1.42	0.36	2.00					
2018	0.21	0.05	0.29	1.62	0.41	2.29					
2019	0.21	0.05	0.29	1.83	0.46	2.58					

		(C. C. C	Commercial Green	n Bı	uilding		
	Summer Demand	Winter Demand	Annual Energy		Cumulative	Cumulative	Cumulative
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy
2011	0.24	0.15	0.55		0.24	0.15	0.55
2012	0.25	0.15	0.58		0.49	0.30	1.13
2013	0.26	0.16	0.60		0.75	0.46	1.73
2014	0.27	0.16	0.61		1.02	0.62	2.34
2015	0.28	0.17	0.63		1.29	0.79	2.97
2016	0.26	0.16	0.60		1.56	0.95	3.58
2017	0.25	0.15	0.58		1.81	1.10	4.15
2018	0.24	0.15	0.56		2.05	1.25	4.71
2019	0.24	0.15	0.55		2.29	1.40	5.26

	Innovation Incentive									
	Summer Demand	Winter Demand	Annual Energy	Cumulative	Cumulative	Cumulative				
	(MW)	(MW)	(GWh)	Summer Demand	Winter Demand	Annual Energy				
2011	0.00	0.00	0.00	0.00	0.00	0.00				
2012	0.00	0.00	0.00	0.00	0.00	0.00				
2013	0.00	0.00	0.00	0.00	0.00	0.00				
2014	0.00	0.00	0.00	0.00	0.00	0.00				
2015	0.00	0.00	0.00	0.00	0.00	0.00				
2016	0.00	0.00	0.00	0.00	0.00	0.00				
2017	0.00	0.00	0.00	0.00	0.00	0.00				
2018	0.00	0.00	0.00	0.00	0.00	0.00				
2019	0.00	0.00	0.00	0.00	0.00	0.00				

	Standby Generation									
	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)	Cumulative Summer Demand	Cumulative Winter Demand	Cumulative Annual Energy				
2011	4.25	4.25	0.00	4.25	4.25	0.00				
2012	4.25	4.25	0.00	8.50	8.50	0.00				
2013	4.25	4.25	0.00	12.75	12.75	0.00				
2014	4.25	4.25	0.00	17.00	17.00	0.00				
2015	4.25	4.25	0.00	21.26	21.26	0.00				
2016	4.25	4.25	0.00	25.51	25.51	0.00				
2017	4.25	4.25	0.00	29.76	29.76	0.00				
2018	4.25	4.25	0.00	34.01	34.01	0.00				
2019	4.25	4.25	0.00	38.26	38.26	0.00				

	Interruptible Service									
e se e e e e e e e e e e e e e e e e e	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)	Cumulative Summer Demand	Cumulative Winter Demand	Cumulative Annual Energy				
2011	0.32	0.34	0.00	0.32	0.34	0.00				
2012	0.32	0.34	0.00	0.64	0.67	0.00				
2013	0.32	0.34	0.00	0.96	1.01	0.00				
2014	0.32	0.34	0.00	1.28	1.35	0.00				
2015	0.32	0.34	0.00	1.61	1.69	0.00				
2016	0.32	0.34	0.00	1.93	2.02	0.00				
2017	0.32	0.34	0.00	2.25	2.36	0.00				
2018	0.32	0.34	0.00	2.57	2.70	0.00				
2019	0.32	0.34	0.00	2.89	3.03	0.00				

	Curtailable Service									
	Summer Demand	Winter Demand	Annual Energy		Cumulative	Cumulative	Cumulative			
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy			
2011	0.20	0.30	0.00	1	0.20	0.30	0.00			
2012	0.20	0.30	0.00		0.40	0.60	0.00			
2013	0.20	0.30	0.00		0.60	0.90	0.00			
2014	0.20	0.30	0.00		0.80	1.20	0.00			
2015	0.20	0.30	0.00		1.01	1.50	0.00			
2016	0.20	0.30	0.00		1.21	1.80	0.00			
2017	0.20	0.30	0.00		1.41	2.10	0.00			
2018	0.20	0.30	0.00		1.61	2.40	0.00			
2019	0.20	0.30	0.00		1.81	2.70	0.00			

			Business Energy R	Resp	ponse		
	Summer Demand	Winter Demand	Annual Energy		Cumulative	Cumulative	Cumulative
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy
2011	0.87	0.00	0.00		0.87	0.00	0.00
2012	6.80	0.00	0.00		7.67	0.00	0.00
2013	10.19	3.39	10.97		17.86	3.39	10.97
2014	11.88	5.08	16.45		29.74	8.47	27.42
2015	15.27	8.47	27.42		45.01	16.94	54.84
2016	15.27	8.47	27.42		60.28	25.40	82.25
2017	15.27	8.47	27.42		75.54	33.87	109.67
2018	15.27	8.47	27.42		90.81	42.34	137.09
2019	12.00	5.65	18.28		102.81	47.99	155.37

Other Programs

The tables below indicate the total annual and cumulative saving impacts (Summer Demand MW, Winter Demand MW, and Annual Energy (GWh) for the Other Programs included in the Original Goal Scenario, for years 2011 – 2019.

- Technology Development
- Qualifying Facilities
- Demand Side Renewable Portfolio¹

¹ Previously approved in Order No. PSC-10-0605-PAA-EG

	Technology Development									
	Summer Demand	Winter Demand	Annual Energy	П	Cumulative	Cumulative	Cumulative			
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy			
2011	0.00	0.00	0.00		0.00	0.00	0.00			
2012	0.00	0.00	0.00		0.00	0.00	0.00			
2013	0.00	0.00	0.00		0.00	0.00	0.00			
2014	0.00	0.00	0.00		0.00	0.00	0.00			
2015	0.00	0.00	0.00		0.00	0.00	0.00			
2016	0.00	0.00	0.00		0.00	0.00	0.00			
2017	0.00	0.00	0.00		0.00	0.00	0.00			
2018	0.00	0.00	0.00		0.00	0.00	0.00			
2019	0.00	0.00	0.00		0.00	0.00	0.00			

	Qualifying Facilities									
	Summer Demand	Winter Demand	Annual Energy		Cumulative	Cumulative	Cumulative			
	(MW)	(MW)	(GWh)		Summer Demand	Winter Demand	Annual Energy			
2011	0.00	0.00	0.00		0.00	0.00	0.00			
2012	0.00	0.00	0.00		0.00	0.00	0.00			
2013	0.00	0.00	0.00		0.00	0.00	0.00			
2014	0.00	0.00	0.00		0.00	0.00	0.00			
2015	0.00	0.00	0.00		0.00	0.00	0.00			
2016	0.00	0.00	0.00		0.00	0.00	0.00			
2017	0.00	0.00	0.00		0.00	0.00	0.00			
2018	0.00	0.00	0.00		0.00	0.00	0.00			
2019	0.00	0.00	0.00		0.00	0.00	0.00			

		D	emand Side Renewa	ble Portfolio		
n in i	Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)	Cumulative Summer Demand	Cumulative Winter Demand	Cumulative Annual Energy
2011	3.11	5.17	6.48	3.11	5.17	6.48
2012	3.11	5.17	6.48	6.21	10.33	12.96
2013	3.11	5.17	6.48	9.32	15.50	19.43
2014	3.11	5.17	6.48	12.42	20.66	25.91

Table IX-2: Penetration Rates

Residential Programs

The tables below indicate the penetration rates assumed for each program compared to historic rates for similar programs for the Residential Programs included in the Original Goal Scenario, for years 2011 – 2019.

- Home Energy Check
- Home Energy Improvement
- Residential New Construction
- Neighborhood Energy Saver
- Low Income Weatherization Assistance
- Residential Energy Management
- Technical Potential

Historical penetration rates were based on the period 2007-2008.

	Home Energy Check				
	Eligible				
	Customers	Participants	% Participation		
2011	1,473,688	70,303	4.8%		
2012	1,495,098	71,521	4.8%		
2013	1,521,451	71,492	4.7%		
2014	1,548,531	71,585	4.6%		
2015	1,575,167	72,093	4.6%		
2016	1,600,448	70,715	4.4%		
2017	1,624,503	71,585	4.4%		
2018	1,647,724	70,936	4.3%		
2019	1,671,277	71,025	4.2%		
% Historic	e Participation	· (400) :			
High	3.8%				
Low	2.9%				

	Home En	ergy Improvement	ve estast coma
	Eligible		
	Customers	Participants	% Participation
2011	1,473,688	95,088	6.5%
2012	1,495,098	106,024	7.1%
2013	1,521,451	113,502	7.5%
2014	1,548,531	121,797	7.9%
2015	1,575,167	157,357	10.0%
2016	1,600,448	141,480	8.8%
2017	1,624,503	133,785	8.2%
2018	1,647,724	117,942	7.2%
2019	1,671,277	106,111	6.3%
% Histori	ic Participation		
High	3.0%		
Low	1.5%		

	Residentia	al New Construction	
	Eligible		
	Customers	Participants	% Participation
2011	16,273	3,292	20.2%
2012	21,410	3,286	15.3%
2013	26,353	3,265	12.4%
2014	27,080	3,847	14.2%
2015	26,636	3,936	14.8%
2016	25,281	3,638	14.4%
2017	24,055	3,457	14.4%
2018	23,221	3,196	13.8%
2019	23,553	3,009	12.8%
% Histor	ric Participation		
High	62.1%		
Low	31.5%		

	Neighbor	hood Energy Saver	
	Eligible		
	Customers	Participants	% Participation
2011	45,718	4,680	10.2%
2012	41,953	4,828	11.5%
2013	37,964	4,926	13.0%
2014	33,797	5,025	14.9%
2015	29,448	5,370	18.2%
2016	24,667	5,173	21.0%
2017	19,987	5,074	25.4%
2018	15,313	4,877	31.8%
2019	10,742	4,729	44.0%
% Histori	e Participation		:
High	9.4%		
Low	9.4%		

	Eligible	ome Weatherization	
	Customers	Participants	% Participation
2011	1,011	506	50.0%
2012	1,026	513	50.0%
2013	1,044	522	50.0%
2014	1,062	531	50.0%
2015	1,081	541	50.0%
2016	1,098	549	50.0%
2017	1,115	557	50.0%
2018	1,131	565	50.0%
2019	1,147	573	50.0%
% Historic	Participation		
High	50.0%		
Low	50.0%		

	Eligible		
	Customers	Participants	% Participation
2011	941,530	7,700	0.8%
2012	955,209	7,700	0.8%
2013	972,046	7,700	0.8%
2014	989,347	7,700	0.8%
2015	1,006,365	7,700	0.8%
2016	1,022,517	13,950	1.4%
2017	1,037,885	13,950	1.3%
2018	1,052,721	13,950	1.3%
2019	1,067,769	9,750	0.9%
% Historic	Participation	The state of the s	
High	0.9%		
Low	0.7%		

	Tec	hnical Potential	1
	Eligible		
	Customers	Participants	% Participation
2011	1,473,688	140,096	9.5%
2012	1,495,098	156,207	10.4%
2013	1,521,451	164,901	10.8%
2014	1,548,531	187,585	12.1%
2015	1,575,167	191,691	12.2%
2016	1,600,448	203,381	12.7%
2017	1,624,503	192,831	11.9%
2018	1,647,724	211,794	12.9%
2019	1,671,277	222,791	13.3%
% Histor	ric Participation		and the same of th
High	N/A		
Low	N/A		

Commercial Programs

The tables below indicate the penetration rates assumed for each program compared to historic rates for similar programs for the Commercial Programs included in the Original Goal Scenario, for years 2011 - 2019.

- Business Energy Check
- Better Business
- Commercial/Industrial New Construction
- Business Energy Saver
- Commercial Green Building New Construction
- Innovation Incentive
- Standby Generation
- Interruptible Service
- Curtailable Service
- Business Energy Response

	Busine	ss Energy Check	
	Eligible		
	Customers	Participants	% Participation
2011	170,886	2,261	1.3%
2012	172,886	2,330	1.3%
2013	173,951	2,424	1.4%
2014	177,276	2,545	1.4%
2015	180,492	2,723	1.5%
2016	183,449	2,859	1.6%
2017	186,235	2,945	1.6%
2018	189,005	3,034	1.6%
2019	191,869	3,064	1.6%
% Histori	c Participation		
High	1.7%		
Low	1.2%		

	Ве	tter Business	
	Eligible		
	Customers	Participants	% Participation
2011	170,886	4,094	2.4%
2012	175,147	4,411	2.5%
2013	178,542	2,962	1.7%
2014	182,030	2,297	- 1.3%
2015	185,461	1,927	1.0%
2016	188,717	1,414	0.7%
2017	191,817	1,171	0.6%
2018	194,809	1,361	0.7%
2019	197,848	1,561	0.8%
% Histor	ic Participation		3).1
High	1.0%		
Low	0.6%		

Historical participation is based on number of customers, projections are based on measures.

	Eligible	of the	
indiffic	Customers	Participants	% Participation
2011	3,653	145	4.0%
2012	4,261	147	3.4%
2013	3,395	148	4.4%
2014	3,488	150	4.3%
2015	3,431	151	4.4%
2016	3,256	153	4.7%
2017	3,100	154	5.0%
2018	2,992	156	5.2%
2019	3,039	157	5.2%
% Historic	Participation	in the second	A Charles
High	1.5%		
Low	1.1%		

Historical participation is based on number of customers, projections are based on measures.

	Busine	ess Energy Saver	
14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Eligible Customers	Participants	% Participation
2011	1,225	100	8.2%
2012	1,150	120	10.4%
2013	1,154	120	10.4%
2014	1,180	120	10.2%
2015	1,206	120	10.0%
2016	1,232	120	9.7%
2017	1,260	120	9.5%
2018	1,287	120	9.3%
2019	1,315	120	9.1%
% Historic	e Participation		
High	N/A		
Low	N/A		

	Comme	rcial Green Building	
	Eligible		
	Customers	Participants	% Participation
2011	3,653	150	4.1%
2012	4,261	158	3.7%
2013	3,395	165	4.9%
2014	3,488	168	4.8%
2015	3,431	173	5.0%
2016	3,256	165	5.1%
2017	3,100	158	5.1%
2018	2,992	153	5.1%
2019	3,039	150	4.9%
% Histor	ic Participation		
High	N/A		
Low	N/A		

	Innov	vation Incentive	
	Eligible Customers	Participants	% Participation
2011	170,886	4	0.0%
2012	175,147	8	0.0%
2013	178,542	10	0.0%
2014	182,030	12	0.0%
2015	185,461	15	0.0%
2016	188,717	17	0.0%
2017	191,817	20	0.0%
2018	194,809	23	0.0%
2019	197,848	25	0.0%
% Histori	c Participation		
High	0.0%		
Low	0.0%		

	Stand	dby Generation	
- 24	Eligible Customers	Participants	% Participation
2011	547	10	1.8%
2012	560	10	1.8%
2013	571	10	1.8%
2014	582	10	1.7%
2015	593	10	1.7%
2016	604	10	1.7%
2017	614	10	1.6%
2018	623	10	1.6%
2019	633	10	1.6%
% Historic	Participation	317 - 17 - 17	- 1
High	14.2%		
Low	4.4%		

	Intern	ruptible Service	
	Eligible Customers	Participants	0/ Doutionation
		Farticipants	% Participation
2011	459	1	0.2%
2012	470	1	0.2%
2013	479	1	0.2%
2014	489	1	0.2%
2015	498	1	0.2%
2016	507	1 1	0.2%
2017	515	1	0.2%
2018	523	1	0.2%
2019	531	1	0.2%
% Historic	Participation	7 x 3 x 1	
High	0.3%		
Low	0.0%		

	Curt	ailable Service	
	Eligible		
	Customers	Participants	% Participation
2011	906	1	0.1%
2012	928	1	0.1%
2013	946	1	0.1%
2014	965	1	0.1%
2015	983	1	0.1%
2016	1,000	1	0.1%
2017	1,017	1	0.1%
2018	1,032	1	0.1%
2019	1,049	1	0.1%
% Histori	c Participation		
High	0.0%		
Low	0.0%		

	Business	Energy Response	
	Eligible		
	Customers	Participants	% Participation
2011	170,886	7	0.0%
2012	175,147	904	0.5%
2013	178,542	6,905	3.9%
2014	182,030	9,904	5.4%
2015	185,461	15,904	8.6%
2016	188,717	15,905	8.4%
2017	191,817	15,904	8.3%
2018	194,809	15,904	8.2%
2019	197,848	10,814	5.5%
% Histori	c Participation		
High	N/A		
Low	N/A		

Other Programs

The tables below indicate the penetration rates assumed for each program compared to historic rates for similar programs for the Residential Programs included in the Original Goal Scenario, for years 2011 - 2019.

- Technology Development
- Qualifying Facilities
- Demand Side Renewable Portfolio²

² Previously approved in Order No. PSC-10-0605-PAA-EG

	Techno	logy Development	
	Eligible		
	Customers	Participants	% Participation
2011	0.00	0.00	0.0%
2012	0.00	0.00	0.0%
2013	0.00	0.00	0.0%
2014	0.00	0.00	0.0%
2015	0.00	0.00	0.0%
2016	0.00	0.00	0.0%
2017	0.00	0.00	0.0%
2018	0.00	0.00	0.0%
2019	0.00	0.00	0.0%
% Histori	c Participation		
High	0.0%		
Low	0.0%		

	Qua	lifying Facilities	
	Eligible		
	Customers	Participants	% Participation
2011	0.00	0.00	0.0%
2012	0.00	0.00	0.0%
2013	0.00	0.00	0.0%
2014	0.00	0.00	0.0%
2015	0.00	0.00	0.0%
2016	0.00	0.00	0.0%
2017	0.00	0.00	0.0%
2018	0.00	0.00	0.0%
2019	0.00	0.00	0.0%
% Historic	Participation		*
High	0.0%		
Low	0.0%		

Demand-Side Renewable Portfolio

	Eligible	Low-Income Residen	
	Customers	Participants	% Participatio
2011	896	30	3.3%
2012	864	30	3.5%
2013	817	30	3.7%
2014	753	30	4.0%
		10.0	1.070
19-A	Solar Water Heati	ng with Energy Mana	gement
14-1-1	Eligible		Bernera
300	Customers	Participants	% Participation
2011	1,223,161	2,250	0.2%
2012	1,240,931	2,250	0.2%
2013	1,262,804	2,250	0.2%
2014	1,285,281	2,250	0.2%
		l Solar Photovoltaic	Street E. Hilling County (Control Section)
	Eligible		
	Customers	Participants	% Participation
2011	1,473,688	100	0.0%
2012	1,495,098	100	0.0%
2013	1,521,451	100	0.0%
2014	1,548,531	100	0.0%
1000		al Solar Photovoltaic	
T	Eligible	7 120	
	Customers	Participants	% Participation
2011	7,524	23	0.3%
2012	7,562	23	0.3%
2013	7,600	23	0.3%
2014	7,638	23	0.3%
	Photovolta	ic for Schools Pilot	
	Eligible		
1 10	Customers	Participants	% Participation
2011	100	10	10.0%
2012	101	10	9.9%
2013	102	10	9.8%
2014	103	10	9.7%
	Photovoltaic for Sc	hools Pilot Post Seco	ondary
I	Eligible		
	Customers	Participants	% Participation
2011	11	1	9.0%
2012	11	1	8.9%
2013	11	1	8.8%
2014	11	1	8.7%

Note that Historic Participation does not exist as these are new programs

Table IX-3: Total Cost

Residential Programs

The tables below indicate the total cost (by program) for administrative, incentive and marketing costs for the Residential Programs included in the Original Goal Scenario, for years 2011 - 2019.

- Home Energy Check
- Home Energy Improvement
- Residential New Construction
- Neighborhood Energy Saver
- Low Income Weatherization Assistance
- Residential Energy Management
- Technical Potential

		Home Energy Ch	neck	
	Total Cost	Admin	Incentives	Marketing
2011	\$16,037,703	\$10,227,116	\$997,827	\$4,812,760
2012	\$16,978,774	\$10,803,228	\$1,091,674	\$5,083,872
2013	\$17,792,527	\$11,306,902	\$1,164,730	\$5,320,895
2014	\$18,712,964	\$11,881,728	\$1,239,834	\$5,591,401
2015	\$19,831,282	\$12,585,812	\$1,322,735	\$5,922,735
2016	\$20,450,468	\$12,974,600	\$1,370,173	\$6,105,694
2017	\$21,615,402	\$13,681,555	\$1,495,467	\$6,438,379
2018	\$22,780,281	\$14,389,041	\$1,619,926	\$6,771,314
2019	\$24,003,751	\$15,135,280	\$1,745,986	\$7,122,485

	Home Energy Improvement					
	Total Cost	Admin	Incentives	Marketing		
2011	\$67,894,320	\$8,711,729	\$55,082,953	\$4,099,637		
2012	\$81,467,755	\$10,675,979	\$65,767,787	\$5,023,990		
2013	\$95,111,359	\$12,484,242	\$76,752,179	\$5,874,938		
2014	\$108,175,754	\$14,521,829	\$86,820,123	\$6,833,802		
2015	\$148,884,986	\$20,385,450	\$118,906,382	\$9,593,153		
2016	\$141,710,084	\$19,745,315	\$112,672,856	\$9,291,913		
2017	\$141,536,733	\$20,052,485	\$112,047,785	\$9,436,463		
2018	\$131,631,052	\$18,946,648	\$103,768,334	\$8,916,070		
2019	\$124,744,919	\$18,213,909	\$97,959,758	\$8,571,251		

	Residential New Construction					
	Total Cost	Admin	Incentives	Marketing		
2011	\$9,351,429	\$1,102,968	\$8,152,550	\$95,910		
2012	\$10,092,655	\$1,237,799	\$8,747,221	\$107,635		
2013	\$10,829,049	\$1,371,834	\$9,337,925	\$119,290		
2014	\$11,380,924	\$1,573,385	\$9,670,723	\$136,816		
2015	\$12,828,332	\$1,801,060	\$10,870,658	\$156,614		
2016	\$13,029,869	\$1,858,241	\$11,010,042	\$161,586		
2017	\$13,503,417	\$1,965,073	\$11,367,468	\$170,876		
2018	\$13,708,337	\$2,026,565	\$11,505,549	\$176,223		
2019	\$14,044,522	\$2,113,455	\$11,747,288	\$183,779		

	Neighborhood Energy Saver					
	Total Cost	Admin	Incentives	Marketing		
2011	\$5,238,906	\$1,431,969	\$3,647,829	\$159,108		
2012	\$5,687,377	\$1,559,859	\$3,954,201	\$173,318		
2013	\$6,105,790	\$1,680,398	\$4,238,681	\$186,711		
2014	\$6,554,644	\$1,809,009	\$4,544,634	\$201,001		
2015	\$7,372,201	\$2,039,599	\$5,105,979	\$226,622		
2016	\$7,476,730	\$2,076,424	\$5,169,592	\$230,714		
2017	\$7,718,851	\$2,150,957	\$5,328,899	\$238,995		
2018	\$7,803,845	\$2,181,526	\$5,379,927	\$242,392		
2019	\$7,963,686	\$2,234,533	\$5,480,871	\$248,281		

	Low Income Weatherization						
	Total Cost	Admin	Incentives	Marketing			
2011	\$993,419	\$381,763	\$569,238	\$42,418			
2012	\$1,207,680	\$437,039	\$722,082	\$48,560			
2013	\$1,285,595	\$432,946	\$804,543	\$48,105			
2014	\$1,298,750	\$454,689	\$793,540	\$50,521			
2015	\$1,426,580	\$484,901	\$887,801	\$53,878			
2016	\$1,476,855	\$511,545	\$908,472	\$56,838			
2017	\$1,462,181	\$499,888	\$906,750	\$55,543			
2018	\$1,398,431	\$469,982	\$876,228	\$52,220			
2019	\$1,453,856	\$472,347	\$929,026	\$52,483			

	Residential Energy Management						
	Total Cost	Admin	Incentives	Marketing			
2011	\$33,475,651	\$11,839,545	\$20,770,000	\$866,105			
2012	\$39,130,400	\$17,087,316	\$21,155,001	\$888,083			
2013	\$70,440,081	\$47,976,761	\$21,540,002	\$923,318			
2014	\$105,832,766	\$82,946,707	\$21,925,003	\$961,056			
2015	\$136,046,502	\$113,085,327	\$21,974,500	\$986,675			
2016	\$129,805,898	\$106,120,903	\$22,672,000	\$1,012,995			
2017	\$124,973,965	\$100,564,987	\$23,369,500	\$1,039,479			
2018	\$109,573,901	\$84,451,121	\$24,067,000	\$1,055,779			
2019	\$94,969,990	\$69,135,391	\$24,764,500	\$1,070,100			

	Total Cost	Admin	Incentives	Marketing
2011	\$120,848,833	\$35,839,810	\$68,143,230	\$16,865,793
2012	\$127,844,150	\$34,383,690	\$77,279,899	\$16,180,560
2013	\$132,003,277	\$36,008,395	\$79,049,755	\$16,945,127
2014	\$136,334,687	\$36,076,137	\$83,281,545	\$16,977,005
2015	\$149,026,114	\$39,677,527	\$90,676,810	\$18,671,777
2016	\$159,864,941	\$43,006,028	\$96,620,783	\$20,238,131
2017	\$184,967,158	\$49,362,583	\$112,375,123	\$23,229,451
2018	\$192,725,374	\$52,150,490	\$116,033,476	\$24,541,407
2019	\$198,139,497	\$54,113,375	\$118,561,004	\$25,465,118

Commercial Programs

The tables below indicate the total cost (by program) for administrative, incentive and marketing costs for the Commercial Programs included in the Original Goal Scenario, for years 2011 – 2019.

- Business Energy Check
- Better Business
- Commercial/Industrial New Construction
- Business Energy Saver
- Commercial Green Building New Construction
- Innovation Incentive
- Standby Generation
- Interruptible Service
- Curtailable Service
- Business Energy Response

	Business Energy Check				
	Total Cost	Admin	Incentives	Marketing	
2011	\$3,111,000	\$2,731,050	\$76,500	\$303,450	
2012	\$3,405,180	\$2,982,546	\$91,350	\$331,284	
2013	\$3,753,588	\$3,281,693	\$107,250	\$364,645	
2014	\$4,160,160	\$3,632,940	\$123,120	\$404,100	
2015	\$4,437,289	\$3,906,466	\$96,525	\$434,298	
2016	\$4,873,944	\$4,294,293	\$101,775	\$477,876	
2017	\$5,262,768	\$4,640,873	\$105,840	\$516,056	
2018	\$5,689,659	\$5,021,406	\$110,550	\$557,703	
2019	\$6,058,163	\$5,344,920	\$118,800	\$594,443	

	Better Business					
	Total Cost	Admin	Incentives	Marketing		
2011	\$14,391,803	\$4,052,459	\$9,889,071	\$450,273		
2012	\$17,087,922	\$4,799,848	\$11,754,758	\$533,316		
2013	\$12,478,450	\$3,504,074	\$8,585,034	\$389,342		
2014	\$10,818,065	\$3,028,025	\$7,453,593	\$336,447		
2015	\$9,936,333	\$2,773,226	\$6,854,971	\$308,136		
2016	\$7,700,538	\$2,165,169	\$5,294,795	\$240,574		
2017	\$6,702,542	\$1,900,468	\$4,590,911	\$211,163		
2018	\$8,211,006	\$2,340,637	\$5,610,298	\$260,071		
2019	\$9,922,477	\$2,840,016	\$6,766,904	\$315,557		

Commercial/Industrial New Construction				
	Total Cost	Admin	Incentives	Marketing
2011	\$1,892,443	\$616,394	\$1,209,478	\$66,571
2012	\$2,366,569	\$669,487	\$1,624,945	\$72,137
2013	\$2,913,951	\$734,204	\$2,100,549	\$79,198
2014	\$3,513,002	\$785,770	\$2,642,444	\$84,788
2015	\$3,875,828	\$811,348	\$2,976,990	\$87,490
2016	\$3,984,515	\$841,836	\$3,051,952	\$90,727
2017	\$4,089,662	\$871,825	\$3,123,938	\$93,899
2018	\$4,252,106	\$913,077	\$3,240,716	\$98,313
2019	\$4,341,239	\$936,468	\$3,303,707	\$101,064

	Business Energy Saver					
	Total Cost	Admin	Incentives	Marketing		
2011	\$107,665	\$40,365	\$62,815	\$4,485		
2012	\$136,746	\$52,164	\$78,786	\$5,796		
2013	\$144,456	\$55,890	\$82,356	\$6,210		
2014	\$152,190	\$59,616	\$85,950	\$6,624		
2015	\$159,924	\$63,342	\$89,544	\$7,038		
2016	\$167,658	\$67,068	\$93,138	\$7,452		
2017	\$175,578	\$70,794	\$96,918	\$7,866		
2018	\$185,688	\$76,383	\$100,818	\$8,487		
2019	\$195,822	\$81,972	\$104,742	\$9,108		

	Commercial Green Building					
124	Total Cost	Admin	Incentives	Marketing		
2011	\$465,525	\$106,313	\$347,400	\$11,813		
2012	\$570,222	\$118,168	\$438,924	\$13,130		
2013	\$686,235	\$130,235	\$541,530	\$14,471		
2014	\$798,672	\$139,860	\$643,272	\$15,540		
2015	\$864,308	\$151,963	\$695,460	\$16,885		
2016	\$866,415	\$152,955	\$696,465	\$16,995		
2017	\$872,002	\$154,571	\$700,256	\$17,175		
2018	\$887,553	\$157,942	\$712,062	\$17,549		
2019	\$914,550	\$163,350	\$733,050	\$18,150		

	Innovation Incentive				
	Total Cost	Admin	Incentives	Marketing	
2011	\$232,197	\$227,553	\$0	\$4,644	
2012	\$237,422	\$232,674	\$0	\$4,748	
2013	\$246,919	\$241,981	\$0	\$4,938	
2014	\$256,796	\$251,660	\$0	\$5,136	
2015	\$267,067	\$261,726	\$0	\$5,341	
2016	\$280,421	\$274,813	\$0	\$5,608	
2017	\$294,442	\$288,553	\$0	\$5,889	
2018	\$312,108	\$305,866	\$0	\$6,242	
2019	\$330,835	\$324,218	\$0	\$6,617	

Standby Generation Service					
	Total Cost	Admin	Incentives	Marketing	
2011	\$2,988,000	\$813,000	\$2,170,000	\$5,000	
2012	\$3,006,405	\$831,405	\$2,170,000	\$5,000	
2013	\$3,025,224	\$850,224	\$2,170,000	\$5,000	
2014	\$3,044,466	\$869,466	\$2,170,000	\$5,000	
2015	\$3,044,467	\$869,467	\$2,170,000	\$5,000	
2016	\$3,064,142	\$889,142	\$2,170,000	\$5,000	
2017	\$3,084,260	\$909,260	\$2,170,000	\$5,000	
2018	\$3,104,831	\$929,831	\$2,170,000	\$5,000	
2019	\$3,125,865	\$950,865	\$2,170,000	\$5,000	

	Interruptible Service					
11 188. 1	Total Cost	Admin	Incentives	Marketing		
2011	\$19,239,525	\$1,112,525	\$18,125,000	\$2,000		
2012	\$19,264,602	\$1,137,602	\$18,125,000	\$2,000		
2013	\$19,290,243	\$1,163,243	\$18,125,000	\$2,000		
2014	\$19,316,460	\$1,189,460	\$18,125,000	\$2,000		
2015	\$19,316,461	\$1,189,461	\$18,125,000	\$2,000		
2016	\$19,343,269	\$1,216,269	\$18,125,000	\$2,000		
2017	\$19,370,680	\$1,243,680	\$18,125,000	\$2,000		
2018	\$19,398,708	\$1,271,708	\$18,125,000	\$2,000		
2019	\$19,427,366	\$1,300,366	\$18,125,000	\$2,000		

	Curtailable Service				
s and	Total Cost	Admin	Incentives	Marketing	
2011	\$842,025	\$90,025	\$750,000	\$2,000	
2012	\$844,096	\$92,096	\$750,000	\$2,000	
2013	\$846,213	\$94,213	\$750,000	\$2,000	
2014	\$848,377	\$96,377	\$750,000	\$2,000	
2015	\$848,377	\$96,377	\$750,000	\$2,000	
2016	\$850,591	\$98,591	\$750,000	\$2,000	
2017	\$852,854	\$100,854	\$750,000	\$2,000	
2018	\$855,169	\$103,169	\$750,000	\$2,000	
2019	\$857,535	\$105,535	\$750,000	\$2,000	

	Business Energy Response					
	Total Cost	Admin	Incentives	Marketing		
2011	\$13,845,893	\$13,779,527	\$66,366	\$0		
2012	\$20,927,789	\$20,733,631	\$194,158	\$0		
2013	\$24,623,200	\$24,058,238	\$321,950	\$243,013		
2014	\$22,001,198	\$21,335,942	\$449,741	\$215,515		
2015	\$21,685,178	\$20,896,568	\$577,533	\$211,076		
2016	\$20,552,600	\$19,648,802	\$705,325	\$198,473		
2017	\$17,467,112	\$16,467,656	\$833,116	\$166,340		
2018	\$13,927,389	\$12,836,816	\$960,908	\$129,665		
2019	\$11,228,207	\$10,115,596	\$1,010,433	\$102,178		

Other Programs

The tables below indicate the total cost (by program) for administrative, incentive and marketing costs for the Other Programs included in the Original Goal Scenario, for years 2011 – 2019.

- Technology Development
- Qualifying Facilities
- Demand Side Renewable Portfolio³

³ Previously approved in Order No. PSC-10-0605-PAA-EG

	Technology Development					
	Total Cost	Admin	Incentives	Marketing		
2011	\$2,000,000	\$2,000,000	\$0	\$0		
2012	\$2,000,000	\$2,000,000	\$0	\$0		
2013	\$2,000,000	\$2,000,000	\$0	\$0		
2014	\$2,000,000	\$2,000,000	\$0	\$0		
2015	\$2,000,000	\$2,000,000	\$0	\$0		
2016	\$2,000,000	\$2,000,000	\$0	\$0		
2017	\$2,000,000	\$2,000,000	\$0	\$0		
2018	\$2,000,000	\$2,000,000	\$0	\$0		
2019	\$2,000,000	\$2,000,000	\$0	\$0		

Qualifying Facilities				
	Total Cost	Admin	Incentives	Marketing
2011	\$752,747	\$752,747	\$0	\$0
2012	\$771,566	\$771,566	\$0	\$0
2013	\$790,855	\$790,855	\$0	\$0
2014	\$810,626	\$810,626	\$0	\$0
2015	\$830,892	\$830,892	\$0	\$0
2016	\$851,664	\$851,664	\$0	\$0
2017	\$872,956	\$872,956	\$0	\$0
2018	\$894,780	\$894,780	\$0	\$0
2019	\$917,149	\$917,149	\$0	\$0

	Total Cost	Admin	Incentives	Marketing
2011	\$5,148,571	\$1,263,857	\$3,643,414	\$241,300
2012	\$5,697,979	\$1,278,608	\$4,175,529	\$243,842
2013	\$6,202,606	\$1,293,602	\$4,662,526	\$246,478
2014	\$6,662,457	\$1,308,806	\$5,104,402	\$249,249
2015	\$1,967,282	\$50,625	\$1,916,657	\$(
2016	\$1,702,371	\$50,625	\$1,651,746	\$(
2017	\$1,280,014	\$50,625	\$1,229,389	\$(
2018	\$902,775	\$50,625	\$852,150	\$(
2019	\$570,656	\$50,625	\$520,031	\$(

Table IX-4.1: Percentage of Total ECCR Rate

The table below indicates the percentage of Savings, Net Benefits and ECCR Rate for the Original Goal Scenario.

		Percentage	of Total ECC	R Rate			
		0,	% of Total Goa	Net I	Net Benefits		
		Summer	Winter	Energy	E-TRC	E-RIM	
Program	Туре	(%)	(%)	(%)	\$000	\$000	ECCR
Business Energy Check	Com-EE	0.5%	0.2%	0.3%	N/A	N/A	1.0%
Commercial Green Building	Com-EE	0.2%	0.1%	0.0%	\$2,091	-\$2,112	0.2%
Business Energy Saver	Com-EE	0.1%	0.0%	0.1%	\$1,044	-\$28	0.0%
Commercial/Industrial New Constru	Com-EE	1.0%	0.5%	1.0%	\$10,148	-\$8,232	0.7%
Better Business	Com-EE	4.1%	1.7%	4.6%	\$83,296	-\$22,669	2.3%
Innovation Incentive	Com-EE	N/A	N/A	N/A	N/A	N/A	0.1%
Business Energy Response	Com-DR	8.4%	4.0%	5.0%	\$206,998	\$40,795	3.9%
Interruptible Service	Com-DR	0.3%	0.3%	0.0%	\$6,000	\$4,872	4.1%
Curtailable Service	Com-DR	0.2%	0.2%	0.0%	\$4,450	\$3,788	0.2%
Standby Generation Service	Com-DR	3.5%	3.5%	0.0%	\$79,161	\$68,926	0.6%
Technical Potential	Res-EE	30.2%	13.6%	49.5%	N/A	N/A	32.9%
Home Energy Improvement	Res-EE	28.3%	44.9%	24.7%	\$392,814	-\$333,369	24.49
Residential New Construction	Res-EE	2.5%	2.9%	2.3%	\$39,875	-\$31,630	2.6%
Neighborhood Energy Saver	Res-EE	2.9%	2.2%	2.6%	\$28,415	-\$20,743	1.5%
Low Income Weatherization	Res-EE	0.4%	0.6%	0.4%	\$4,069	-\$3,625	0.3%
Home Energy Check	Res-EE	8.0%	4.9%	8.4%	N/A	N/A	4.2%
Residential Energy Management	Res-DR	8.5%	18.5%	0.0%	\$419,148	\$120.704	16.19
Existing Load Management	Res-DR	0.0%	0.0%	0.0%	5419,140	\$139,704	3.7%
Qualifying Facilities	All	N/A	N/A	N/A	N/A	N/A	0.2%
Technology Development	All	N/A	N/A	N/A	N/A	N/A	0.4%
Demand Side Renewable Portfolio	All-RE	1.0%	1.7%	0.8%	-\$5,341	-\$9,371	0.7%

Table IX-4.2: Percentage of Total ECCR Rate (detailed by year)

The table below indicates the percentage of total ECCR rates by program and year for the Original Goal Scenario.

	Percen	tage of Tot	al ECCR	Rate (det	tail by yea	ar)				
	Plan									
Program	ECCR	2011	2012	2013	2014	2015	2016	2017	2018	2019
Business Energy Check	1.0%	1.0%	0.9%	0.9%	0.9%	0.8%	0.9%	0.9%	1.1%	1.2%
Commercial Green Building	0.2%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
Business Energy Saver	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Commercial/Industrial New Constru	0.7%	0.6%	0.7%	0.7%	0.8%	0.7%	0.7%	0.7%	0.8%	0.8%
Better Business	2.3%	4.5%	4.8%	3.0%	2.3%	1.8%	1.4%	1.2%	1.5%	1.9%
Innovation Incentive	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%
Business Energy Response	3.9%	4.3%	5.8%	6.0%	4.7%	4.0%	3.8%	3.1%	2.6%	2.1%
Commercial LM (closed)	0.1%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Interruptible Service	4.1%	6.0%	5.4%	4.7%	4.2%	3.5%	3.6%	3.5%	3.6%	3.7%
Curtailable Service	0.2%	0.3%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
Standby Generation Service	0.6%	0.9%	0.8%	0.7%	0.7%	0.6%	0.6%	0.6%	0.6%	0.6%
Technical Potential	32.9%	37.9%	35.6%	32.1%	29.4%	27.3%	29.6%	33.1%	35.6%	37.7%
Home Energy Improvement	24.4%	21.3%	22.7%	23.1%	23.4%	27.3%	26.2%	25.3%	24.3%	23.7%
Residential New Construction	2.6%	2.9%	2.8%	2.6%	2.5%	2.4%	2.4%	2.4%	2.5%	2.7%
Neighborhood Energy Saver	1.5%	1.6%	1.6%	1.5%	1.4%	1.4%	1.4%	1.4%	1.4%	1.5%
Low Income Weatherization	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%
Home Energy Check	4.2%	5.0%	4.7%	4.3%	4.0%	3.6%	3.8%	3.9%	4.2%	4.6%
Residential Energy Management	19.8%	10.5%	10.9%	17.1%	22.9%	24.9%	24.0%	22.4%	20.3%	18.19
Qualifying Facilities	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
Technology Development	0.4%	0.6%	0.6%	0.5%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%
Demand Side Renewable Portfolio	0.7%	1.5%	1.5%	1.4%	1.4%	0.4%	0.3%	0.2%	0.2%	0.1%

Table IX-5: Total Plan ECCR Rate Impact

The table below indicates the total plan ECCR revenue requirements and ECCR rate impact for the Original Goal Scenario.

Original	Goal Scenario Plan ECC	R Rate Impact
	Total ECCR Revenue Requirements	Residential Bill Impact (\$/Mo @ 1,200 kWh)
2011	319,118,930	\$11.28
2012	359,038,356	\$12.60
2013	410,860,767	\$14.45
2014	462,977,709	\$16.52
2015	545,292,569	\$19.72
2016	540,689,639	\$19.56
2017	558,732,715	\$20.00
2018	540,866,629	\$19.03
2019	525,900,552	\$18.20

The table below indicates the total plan ECCR revenue requirements and ECCR rate impact for the Revised Goal.

Rev	vised Goal Plan ECCR R	ate Impact
	Total ECCR Revenue Requirements	Residential Bill Impact (\$/Mo @ 1,200 kWh)
2011	130,962,866	\$4.84
2012	147,959,682	\$5.39
2013	191,263,109	\$6.90
2014	234,361,192	\$8.47
2015	258,435,799	\$9.43
2016	252,364,979	\$9.11
2017	237,580,971	\$8.45
2018	219,148,476	\$7.58
2019	203,412,004	\$6.86

X. TARIFF REVISION

Exhibit A Legislative Copy Format Tariffs

Eight Revised Tariff Sheet No. 2.0

Fourth Revised Tariff Sheet No. 2.6

Twenty-first Revised Tariff Sheet No. 6.100

Second Revised Tariff Sheet no. 6.226

Original Tariff Sheet No. 6.228

Original Tariff Sheet No. 6.229



MISCELLANEOUS INDEX

DESCRIPTION	SHEET NO.
Home Energy Check-up	2.3
Non-Residential Energy Audit	2.4
Florida Energy Gauge Ratings	2.6
Load Energy Profiler Online	2.7
Remote Access	2.8

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning-Florida Mark A. Myers, Vice President, Finance EFFECTIVE: April 12, 2004



Florida Energy Gauge Ratings Energy Gauge

Availability:

Available throughout the entire territory served by the Company.

Applicable:

To residential customers with single family homes (mobile, manufactured homes excluded). Upon request a state certified Home Energy Rating System (HERS) rater will perform an on-site energy inspection on an existing home and provide a rating certificate. New homes with completed Florida Energy Code Whole Building Performance Method A will-requires a review of code calculations to be eligible for a rating certificate.

Schedule of Fees:

The following fees are based on a home equal to or less than 1,850 air conditioned square feet and one (1) air handler.

		*New Home (With Energy Code Compliance Form Provided)	*Existing Home
Class I On-Site_1	\$ <u>550</u> 495	A\/A	\$ <u>550</u> 195
Class II On-Site_2	\$ <u>315</u> 145	N/A	\$ <u>315</u> 145
Class III From Plans_2	\$1 <u>2</u> ‡0	\$35	N/A

Includes electronic registration fees charged by the State of Florida.

A \$35 fee will be added for each additional air handler.

Definitions:

Existing home: is a completed residential occupancy building for which a certificate of occupancy or equivalent approval for occupancy, has been issued.

Florida Energy Code Whole Building Performance Method A: efficiencies.

Required by the State listing building components, dimensions and system

Energy Gauge Ratings are Categorized in Three Classes:

Class I: Energy rating requiring an on-site energy audit with specialized performance testing for air infiltration and duct leakage. Class I ratings have the highest level of confidence.

Class II: Energy rating requiring an on-site energy audit. Class II ratings have a good level of confidence.

Class III: Energy rating reserved for new buildings only and uses construction plans to generate data for ratings. Class III ratings have a fair level of confidence.

Terms of Payment:

The fee shall be payable at the time the rating is completed-and-delivered. The Company reserves the right to withhold the rating certificate until the fee is paid.

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning-FloridaMark A. Myers, Vice President, Finance

EFFECTIVE: December 23, 2003

For homes with greater than 1,850 square feet of air conditioned space, an additional \$0.09 per square foot will be added.



SECTION NO. VI TWENTY-FIRSTIETH REVISED SHEET NO. 6.100 CANCELS TWENTIETHNINETEENTH REVISED SHEET

	INDEX OF RATE SCHEDULES	Page 1 of 1
FPSC UNIFORM RATE SCHEDULE DESIGNATION		BEGINS ON SHEET NO.
BA-1	Billing Adjustments	6.105
SC-1	Service Charges	6.110
RS-1	Residential Service	6.120
RSL-1	Residential - Load Management (Optional)	6.130
RSL-2	Residential - Load Management - Winter Only - (Optional)	6.135
RST-1	Residential Service (Optional Time of Use) (Closed to New Customers as of 02/10/10)	6.140
GS-1	General Service - Non-Demand	6.150
GST-1	General Service - Non-Demand (Optional Time of Use)	6.160
GS-2	General Service - Non-Demand (100% Load Factor Usage)	6.165
GSD-1	General Service - Demand	6.170
GSDT-1	General Service - Demand (Optional Time of Use)	6.180
GSLM-1	General Service - Load Management (Optional)	6.220
GSLM-2	General Service - Load Management - Standby Generation	6.225
GSDR-1	General Service Demand Response	6.228
CS-1	Curtailable General Service (Closed to New Customers as of 04/16/96)	6.230
CS-2	Curtailable General Service	6.235
CS-3	Curtailable General Service Fixed Curtailable Demand	6.2390
CST-1	Curtailable General Service (Optional Time of Use) (Closed to New Customers as of 04/16/96)	6.240
CST-2	Curtailable General Service (Optional Time of Use)	6.245
CST-3	Curtailable General Service (Optional Time of Use) Fixed Curtailable Demand	6.2490
IS-1	Interruptible General Service (Closed to New Customers as of 04/16/96)	6.250
IS-2	Interruptible General Service	6.255
IST-1	Interruptible General Service (Optional Time of Use) (Closed to New Customers as of 04/16/96)	6.260
IST-2	Interruptible General Service (Optional Time of Use)	6.265
LS-1	Lighting Service	6.280
SS-1	Firm Standby Service	6.310
SS-2	Interruptible Standby Service	6.315
SS-3	Curtailable Standby Service	6.320
TS-1	Temporary Service	6.330
RSS-1	Residential Seasonal Service Rider	6.350
CISR-1	Commercial/Industrial Service Rider	6.360
PPS-1	General Service - Premier Power Service Rider	6.370

ISSUED BY: Lori J. Cross, Manager, Uitility Regulatory Planning - Florida

| EFFECTIVE: February 10, 2010

SECTION NO. VI <u>SECOND</u>FIRST REVISED SHEET NO. 6.226 CANCELS FIRST REVISEDORIGINAL SHEET NO.

0.220

Page 2 of 2

RATE SCHEDULE GSLM-2 GENERAL SERVICE LOAD MANAGEMENT – STANDBY GENERATION (Continued from Page No. 1)

Schedules:

Requests by the Company for the customer to reduce facility demand by operation of the standby generation can occur at any time during the day. The GSLM-2 will not be operated more than twice each day with the total operation not exceeding twelve (12) hours. Under extreme emergency conditions, the Company may request the Customer to voluntarily operate their standby generation for longer than twelve (12) hours a day.

Term of Service:

Service under this rate schedule shall be for a minimum initial term of twelve (12) months from completion of Company acceptance testing of customer's equipment and shall continue thereafter until terminated by either party by written notice sixty (60) days prior to termination.

Special Provisions:

- The Company shall be allowed reasonable access to the customer's premises to install, maintain, inspect, test and remove the
 equipment associated with this rate.
- 2. Prior to the installation of the equipment, the Company may inspect the customer's electrical equipment (including standby generator) to ensure good repair and working condition, but the Company shall not be responsible for the repair or maintenance of the electrical equipment (including standby generator). The Company may, at its option, require a commercial energy audit as a prerequisite to receiving service under this rate. The audit may be used to establish or confirm equipment capacity, operating hours, or to determine the ability of the Company to control electric demand.
- 3. If the Company determines that the equipment installed as part of this rate by the Company has been tampered with, the Company may discontinue service under this rate and bill the customer for prior credits received under this rate for that fiscal year.
- 4. Customers taking service under this Standby Generation rate schedule who desire to transfer to a firm rate schedule after the initial term of service will be required to provide the Company with written notice at least 12 months prior to such transfer. Such notice shall be inevocable unless the Company and the customer agree to void the notice.
- 5. The Company reserves the right, at its option, to remove Customers from this rate who, during any consecutive 12 month period, do not participate in at least 75% of Company requests to reduce their demand by operation of their standby generation equipment.

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning - Florida Mark A. Myers, Vice President, Finance

EFFECTIVE: October 1, 2003



Page 1 of 2

RATE SCHEDULE GSDR-1 GENERAL SERVICE DEMAND RESPONSE

Availability:

Available only within the range of the Company's two-way communications capability to the "smart" billing meter.

Applicable:

To customers who are eligible for service under Rate Schedules GS, GST-1, GSD-1, or GSDT-1 who have qualified equipment that will allow for a demand reduction during a Company Control Event. The customer must have a Business Energy Check that pre-qualifies and identifies the tons of air-conditioning (A/C) eligible for Direct Load Control (DLC) or the subscribed demand reduction kW by customer's Energy Management System (EMS) under this rate schedule. Customers cannot be on this rate schedule and also the General Service Load Management (GSLM-1) or General Service Load Management — Standby Generation (GSLM-2) rate schedule.

Limitation of Service:

Load control of the customer's equipment will occur at the Company's request or by the Company if the equipment is directly connected to the Company's two-way demand response system.

Standby or resale service not permitted hereunder. Service under this rate is subject to the Company's currently effective and filed "General Rules and Regulations for Electric Service."

Rate Per Company Control Event:

The rates and all other terms and conditions of Company rate schedules GS, GST-1, GSD-1 or GSDT-1 (whichever shall otherwise be applicable) shall be applicable to service under this rate schedule, subject to the following:

GSDR-1 CRITICAL PEAK REBATE AMOUNT

Rebate (Credit)

\$1.20 per Ton of air conditioning load reduced per Control Event
OR

\$2.86 per kW reduced per Control Event (EMS customers only)

April through October

The customer's Critical Peak Rebate (CPR) per Company Control Event will be a calculated value based upon the following formulas depending on the type of participation and will only be credited for actual participation in a Company Control Event:

Direct Load Control Switch:

CPR = (Tons of A/C load confirmed during Business Energy Check) times \$1.20

Interconnection to Existing Energy Management System:

CPR = Average demand reduction kW times \$2.86, where

- Average demand reduction kW = control baseline kW actual average kW demand during the Company Control Event period, where
 - Control baseline kW = the average kW demand from the most recent prior three non-control days during hours corresponding to the Company Control Event period.
- Customer must submit a subscribed demand reduction kW. The subscribed demand reduction kW = the kW reduction that will be achieved by customer's EMS control during a Company Control Event period.
- The subscribed demand reduction kW must be at least 20 kW and at least 10% of the customer's average monthly peak demand.
- Actual average kW demand during Company Control Event period = average kW measured during the Company Control Event period. (minimum of 50% and maximum of 150% of the subscribed demand reduction kW).
- Upon Company notification, the customer will be given 15 minutes to initiate demand reduction of 50% to 150% of subscribed demand reduction kW to qualify for CPR.

*Non-Control days exclude weekend days and observed holidays as defined in the otherwise applicable rate.

Definitions:

CPR = Critical Peak Rebate (credit) amount provided to the customer each time they participate in a Company Control Event.

Tons of

A/C Load = Actual connected tons of air conditioning controlled by the DLC switch.

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning - Florida EFFECTIVE:



Page 2 of 2

RATE SCHEDULE GSDR-1 GENERAL SERVICE DEMAND RESPONSE (Continued from Page No. 1)

DLC = Direct Load Control of the customer's air conditioning system using 50% duty cycle for a minimum of 2 consecutive hours during a load control event using a Company supplied control switch. Total operation not to exceed 12 hours per day.

EMS = Energy Management System owned by the customer that reduces a subscribed demand reduction kW during a 2-hour Company Control Event time frame. EMS notification of a Company Control Event can be manual or automatic.

Company

Control Event= Any request by the Company to reduce customer's kW usage as defined by this tariff whether notified electronically, manually, or otherwise.

Schedules:

Requests by the Company for the customer to reduce facility demand by operation of the DLC or EMS equipment can occur at any time during the day. The GSDR will not be operated more than twice each day. Under extreme emergency conditions, the Company may request DLC Customers to voluntarily participate for longer than twelve (12) hours a day.

Special Provisions:

- The Company shall be allowed reasonable access to the customer's premises to install, maintain, inspect, test and remove the equipment
 associated with this rate.
- 2. Prior to the installation of the equipment, the Company may inspect the customer's electrical equipment to ensure good repair and working condition, but the Company shall not be responsible for the repair or maintenance of the electrical equipment (including Air Conditioning System). The Company may, at its option, require a commercial energy audit as a prerequisite to receiving service under this rate. The audit may be used to establish or confirm equipment capacity, operating hours, or to determine the ability of the Company to control electric demand.
- 3. If the Company determines that the equipment installed as part of this rate by the Company has been tampered with, the Company may discontinue service under this rate and bill the customer for prior credits received under this rate for the previous twelve (12) months.
- If the customer does not participate in three or more Company Control Event periods during the months of April through October during
 any year, the Company shall be allowed to remove the equipment and/or terminate service under this rate schedule.
- 5. The Company may initiate a minimum of three Company Control Event periods during the months of April through October of each year.

Exhibit B Clean Copy Format Tariffs

Eight Revised Tariff Sheet No. 2.0

Fourth Revised Tariff Sheet No. 2.6

Twenty-First Revised Tariff Sheet No. 6.100

Second Revised Tariff Sheet No. 6.226

Original Tariff Sheet No. 6.228

Original Tariff Sheet No. 6.229



MISCELLANEOUS INDEX

DESCRIPTION	SHEET NO.
Home Energy Check-up	2.3
Non-Residential Energy Audit	2.4
Florida Energy Gauge Ratings	2.6
Load Profiler Online	2.7
Remote Access	2.8



Florida Energy Gauge Ratings Energy Gauge

Availability:

Available throughout the entire territory served by the Company.

Applicable:

To residential customers with single family homes (mobile, manufactured homes excluded). Upon request a state certified Home Energy Rating System (HERS) rater will perform an on-site energy inspection on an existing home and provide a rating certificate. New homes with completed Florida Energy Code Whole Building Performance Method A will require a review of code calculations to be eligible for a rating certificate.

Schedule of Fees:

The following fees are based on a home equal to or less than 1,850 air conditioned square feet and one (1) air handler.

Rating Property Company	*New Home	*Existing Home
Class I On-Site 1	\$550	\$550
Class II On-Site 2	\$315	\$315
Class III From Plans 2	\$120	N/A

Includes electronic registration fees charged by the State of Florida.

A \$35 fee will be added for each additional air handler.

² For homes with greater than 1,850 square feet of air conditioned space, an additional \$0.09 per square foot will be added.

Definitions:

Existing home: is a completed residential occupancy building for which a certificate of occupancy or equivalent approval for occupancy, has

Florida Energy Code Whole Building Performance Method A: efficiencies.

Required by the State listing building components, dimensions and system

Energy Gauge Ratings are Categorized in Three Classes:

Class I: Energy rating requiring an on-site energy audit with specialized performance testing for air infiltration and duct leakage. Class I ratings have the highest level of confidence.

Class II: Energy rating requiring an on-site energy audit. Class II ratings have a good level of confidence.

Class III: Energy rating reserved for new buildings only and uses construction plans to generate data for ratings. Class III ratings have a fair level of confidence.

Terms of Payment:

The fee shall be payable at the time the rating is completed. The Company reserves the right to withhold the rating certificate until the fee is paid.

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning - Florida

FPSC UNIFORM RATE SCHEDULE	INDEX OF RATE SCHEDULES	25000000
RATE SCHEDULE		55000 00
DESIGNATION		BEGINS ON SHEET NO.
BA-1	Billing Adjustments	6.105
SC-1	Service Charges	6.110
RS-1	Residential Service	6.120
RSL-1	Residential - Load Management (Optional)	6.130
RSL-2	Residential - Load Management - Winter Only - (Optional)	6.135
RST-1	Residential Service (Optional Time of Use) (Closed to New Customers as of 02/10/10)	6.140
GS-1	General Service - Non-Demand	6.150
GST-1	General Service - Non-Demand (Optional Time of Use)	6.160
GS-2	General Service - Non-Demand (100% Load Factor Usage)	6.165
GSD-1	General Service - Demand	6.170
GSDT-1	General Service - Demand (Optional Time of Use)	6.180
GSLM-1	General Service - Load Management (Optional)	6.220
GSLM-2	General Service - Load Management - Standby Generation	6.225
GSDR-1	General Service Demand Response	6.228
CS-1	Curtailable General Service (Closed to New Customers as of 04/16/96)	6.230
CS-2	Curtailable General Service	6.235
CS-3	Curtailable General Service Fixed Curtailable Demand	6.2390
CST-1	Curtailable General Service (Optional Time of Use) (Closed to New Customers as of 04/16/96)	6.240
CST-2	Curtailable General Service (Optional Time of Use)	6.245
CST-3	Curtailable General Service (Optional Time of Use) Fixed Curtailable Demand	6.2490
IS-1 :	Interruptible General Service (Closed to New Customers as of 04/16/96)	6.250
IS-2	Interruptible General Service	6.255
IST-1	Interruptible General Service (Optional Time of Use) (Closed to New Customers as of 04/16/96)	6.260
IST-2	Interruptible General Service (Optional Time of Use)	6.265
LS-1	Lighting Service	6.280
SS-1	Firm Standby Service	6.310
SS-2	Interruptible Standby Service	6.315
SS-3	Curtailable Standby Service	6.320
TS-1	Temporary Service	6.330
RSS-1	Residential Seasonal Service Rider	6.350
CISR-1	Commercial/Industrial Service Rider	6.360
PPS-1	General Service – Premier Power Service Rider	6.370

ISSUED BY: Lori J. Cross, Manager, Uitility Regulatory Planning - Florida

SECTION NO. VI SECOND REVISED SHEET NO. 6.226 CANCELS FIRST REVISED SHEET NO. 6.226

Page 2 of 2

RATE SCHEDULE GSLM-2 GENERAL SERVICE LOAD MANAGEMENT – STANDBY GENERATION (Continued from Page No. 1)

Schedules:

Requests by the Company for the customer to reduce facility demand by operation of the standby generation can occur at any time during the day. The GSLM-2 will not be operated more than twice each day with the total operation not exceeding twelve (12) hours. Under extreme emergency conditions, the Company may request the Customer to voluntarily operate their standby generation for longer than twelve (12) hours a day.

Term of Service:

Service under this rate schedule shall be for a minimum initial term of twelve (12) months from completion of Company acceptance testing of customer's equipment and shall continue thereafter until terminated by either party by written notice sixty (60) days prior to termination.

Special Provisions:

- 1. The Company shall be allowed reasonable access to the customer's premises to install, maintain, inspect, test and remove the equipment associated with this rate.
- 2. Prior to the installation of the equipment, the Company may inspect the customer's electrical equipment (including standby generator) to ensure good repair and working condition, but the Company shall not be responsible for the repair or maintenance of the electrical equipment (including standby generator). The Company may, at its option, require a commercial energy audit as a prerequisite to receiving service under this rate. The audit may be used to establish or confirm equipment capacity, operating hours, or to determine the ability of the Company to control electric demand.
- If the Company determines that the equipment installed as part of this rate by the Company has been tampered with, the Company
 may discontinue service under this rate and bill the customer for prior credits received under this rate for that fiscal year.
- 4. Customers taking service under this Standby Generation rate schedule who desire to transfer to a firm rate schedule after the initial term of service will be required to provide the Company with written notice at least 12 months prior to such transfer. Such notice shall be irrevocable unless the Company and the customer agree to void the notice.
- The Company reserves the right, at its option, to remove Customers from this rate who, during any consecutive 12 month period, do not
 participate in at least 75% of Company requests to reduce their demand by operation of their standby generation equipment.

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning - Florida



Page 1 of 2

RATE SCHEDULE GSDR-1 GENERAL SERVICE DEMAND RESPONSE

Availability:

Available only within the range of the Company's two-way communications capability to the "smart" billing meter.

Applicable:

To customers who are eligible for service under Rate Schedules GS, GST-1, GSD-1, or GSDT-1 who have qualified equipment that will allow for a demand reduction during a Company Control Event. The customer must have a Business Energy Check that pre-qualifies and identifies the tons of air-conditioning (A/C) eligible for Direct Load Control (DLC) or the subscribed demand reduction kW by customer's Energy Management System (EMS) under this rate schedule. Customers cannot be on this rate schedule and also the General Service Load Management (GSLM-1) or General Service Load Management – Standby Generation (GSLM-2) rate schedule.

Limitation of Service:

Load control of the customer's equipment will occur at the Company's request or by the Company if the equipment is directly connected to the Company's two-way demand response system.

Standby or resale service not permitted hereunder. Service under this rate is subject to the Company's currently effective and filed "General Rules and Regulations for Electric Service."

Rate Per Company Control Event:

The rates and all other terms and conditions of Company rate schedules GS, GST-1, GSD-1 or GSDT-1 (whichever shall otherwise be applicable) shall be applicable to service under this rate schedule, subject to the following:

GSDR-1 CRITICAL PEAK REBATE AMOUNT

Rebate (Credit)

Time Period Rate Effective

\$1.20 per Ton of air conditioning load reduced per Control Event OR

April through October

\$2.86 per kW reduced per Control Event (EMS customers only)

April through October

The customer's Critical Peak Rebate (CPR) per Company Control Event will be a calculated value based upon the following formulas depending on the type of participation and will only be credited for actual participation in a Company Control Event:

Direct Load Control Switch:

CPR = (Tons of A/C load confirmed during Business Energy Check) times \$1.20

Interconnection to Existing Energy Management System:

CPR = Average demand reduction kW times \$2.86, where

 Average demand reduction kW = control baseline kW - actual average kW demand during the Company Control Event period, where

Control baseline kW = the average kW demand from the most recent prior three non-control days during hours corresponding to the Company Control Event period.

- Customer must submit a subscribed demand reduction kW. The subscribed demand reduction kW = the kW reduction that will be achieved by customer's EMS control during a Company Control Event period.
- The subscribed demand reduction kW must be at least 20 kW and at least 10% of the customer's average monthly peak demand.
- Actual average kW demand during Company Control Event period = average kW measured during the Company Control Event period. (minimum of 50% and maximum of 150% of the subscribed demand reduction kW).
- Upon Company notification, the customer will be given 15 minutes to initiate demand reduction of 50% to 150% of subscribed demand reduction kW to qualify for CPR.

*Non-Control days exclude weekend days and observed holidays as defined in the otherwise applicable rate.

Definitions:

CPR =

Critical Peak Rebate (credit) amount provided to the customer each time they participate in a Company Control Event.

Tons of

A/C Load =

Actual connected tons of air conditioning controlled by the DLC switch.

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning - Florida

SECTION NO. VI **ORIGINAL SHEET NO. 6.229**

Page 2 of 2

RATE SCHEDULE GSDR-1 GENERAL SERVICE DEMAND RESPONSE

(Continued from Page No. 1)

DLC =

Direct Load Control of the customer's air conditioning system using 50% duty cycle for a minimum of 2 consecutive hours during a load control event using a Company supplied control switch. Total operation not to exceed 12 hours per day.

FMS =

Energy Management System owned by the customer that reduces a subscribed demand reduction kW during a 2-hour Company Control Event time frame. EMS notification of a Company Control Event can be manual or automatic.

Company

Control Event= Any request by the Company to reduce customer's kW usage as defined by this tariff whether notified electronically, manually, or otherwise.

Schedules:

Requests by the Company for the customer to reduce facility demand by operation of the DLC or EMS equipment can occur at any time during the day. The GSDR will not be operated more than twice each day. Under extreme emergency conditions, the Company may request DLC Customers to voluntarily participate for longer than twelve (12) hours a day.

Special Provisions:

- 1. The Company shall be allowed reasonable access to the customer's premises to install, maintain, inspect, test and remove the equipment associated with this rate.
- 2. Prior to the installation of the equipment, the Company may inspect the customer's electrical equipment to ensure good repair and working condition, but the Company shall not be responsible for the repair or maintenance of the electrical equipment (including Air Conditioning System). The Company may, at its option, require a commercial energy audit as a prerequisite to receiving service under this rate. The audit may be used to establish or confirm equipment capacity, operating hours, or to determine the ability of the Company to control electric demand.
- 3. If the Company determines that the equipment installed as part of this rate by the Company has been tampered with, the Company may discontinue service under this rate and bill the customer for prior credits received under this rate for the previous twelve (12) months.
- If the customer does not participate in three or more Company Control Event periods during the months of April through October during any year, the Company shall be allowed to remove the equipment and/or terminate service under this rate schedule.
- 5. The Company may initiate a minimum of three Company Control Event periods during the months of April through October of each year.

ISSUED BY: Lori J. Cross, Manager, Utility Regulatory Planning - Florida EFFECTIVE: