File #060627 Preliminary Report on Energy Efficiency Programs

GRU I OCTOBER 2006 UPDATE

Since approval of the FY 07 conservation plan and budget on July 25, staff has been busy developing the foundation and infrastructure for achieving maximum DSM. This includes a variety of tasks required to implement the first year of our energy efficiency programs and begin the planning process for future years. During this first year, staff has worked with both internal and external stakeholders to ensure the success of the programs. Many of these efforts will be discussed in this preliminary report. In the future, quarterly reports will focus on MWh and kW savings achieved as a result of these programs.

Financial Incentives

<u>ACHIEVEMENT</u>	STATUS	BENEFIT
Florida's Energy Efficiency Week (Tax Holiday) • Press release sent to media, posted on gru.com, e-line and sent via electronic email (Newsflash)	Complete	Customers will see a significant tax savings if they purchase qualified ENERGY STAR® products during this week
Compact Fluorescent Lamp (CFL) Lincoln Homes Retrofit Pilot • Establishing contractual agreement with the Cultural Arts Coalition (Environmental Ambassadors) to install 5,000 compact fluorescent lamps in Lincoln Estates neighborhood homes • Working with Eastside High School students to analyze total energy savings in neighborhood	In Progress – finalizing agreement	 GRU/Community involvement CFL direct installation Energy savings Increased awareness of GRU energy efficiency programs Cost savings
Compact Fluorescent Lamp (CFL) Tanglewood Retrofit Pilot • Establishing a contractual agreement with the University of Florida Housing Department to implement a light bulb change out program. The UF Housing Department will install approximately 3,000 CFLs in Tanglewood Apartments (married housing) • The International Carbon Bank Exchange (ICBE) will be measuring the results of the project over a 5-year period to try to establish the energy, financial and environmental savings associated with more efficient lighting	In Progress – finalizing agreement; replaced lamps in nine units	 GRU/Community involvement CFL direct installation Energy savings Increased awareness of GRU energy efficiency programs Cost savings

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HVAC

Contractor Partnership

- Held workshop with contractors to gauge interest in becoming a certified contractor
- In exchange for marketing GRU programs, GRU will offer marketing benefits to the contractor

In Progress – held workshop; requested feedback; Spoke with other utilities about their

Target – Jan 2007

contractor

partnerships;

- GRU/Contractor involvement
- Energy savings
- Increased awareness of GRU energy efficiency programs
- Leverages an already strong marketing force to maximize customer take rates of rebate programs
- Cost savings
- Allows consistent application of residential rebates
- Ensures quality installation with high levels of performance
- Provides a marketing value to local contractors

Energy Star Certification/ Affordable Housing

- Met with the City of Gainesville
 Housing Department and the
 Neighborhood Housing Development
 Corporation (NHDC) to bring them up
 to date on GRU's E-Star Housing and
 other GRU Programs that may be of
 assistance.
- Ten "affordable" homes in the North Point neighborhood have qualified for \$300 rebates for Energy Star certification (plans are for 46 additional)

In Progress – processing Energy Star Certification rebates

- GRU/community involvement
- Energy savings
- Increased awareness of GRU energy efficiency programs
- Cost savings
- Planning to cross-market with CFL program

High Efficiency Central A/C

- Increased rebate value from \$125 to \$200 for 15 SEER or greater
- Increased rebate value from \$325 to \$550 for 15 SEER or higher 2 stage units
- Rewrote Administrative Guideline
- · Updated web site, written materials

Complete

- Higher rebate amount to customer
- Second Tier allows newer technologies (2 Stage) to be used

High Efficiency Room A/C

- Lowered EER requirement from 11 to 10.7
- Lowered minimum Btu requirement from 12,000 to 10,000
- Rewrote Administrative Guideline
- Updated web site, written materials

Complete

 Gives customers more accessibility to Gainesville retailer's existing stock

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Heat Pipe Enhanced A/C

- Increased rebate value from \$95 to \$225
- Rewrote Administrative Guideline
- Updated web site, written materials

Complete

- GRU/Contractor involvement
- Energy savings
- Increased awareness of GRU energy efficiency programs
- Higher rebate amount to customer
- Cost savings

Solar Water Heater

 Changed calculation of active system rebate amount from whole system levels to \$0.0083 per btu/day

Complete

 Allows flexibility for the active systems being installed in our service

Heat Recovery Water Heater

- Provides rebates to contractors when equipment is installed in our service area and fully processed by GRU
- Rewrote Administrative Guideline

territory

- Updated web site, written materials

In Progress informed contractors of monetary

- GRU/Contractor involvement
- Energy savings
- Increased awareness of GRU energy
- efficiency programs Cost savings

Reflective Roof Coating

- Provides \$75 rebate for application of reflective coating on mobile homes
- Rewrote Administrative Guideline
- · UF College of Journalism and Communications graduate public relations students researching and developing plans to promote this rebate

In progress

incentive

- Energy savings
- Increased awareness of GRU energy
- efficiency programs
- Cost savings

Request of Interest for Consulting Services

 Request for Interest seeking consulting services to assist in development of Low Interest Loan Program, Refrigerator Buyback, Recycling Program and Attic Insulation Program was sent out

Complete

· Helps speed up development of new

programs

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Low Income Whole House Program Will provide up to \$2750 for upgrades to existing low income housing Research underway Meetings being held with The Action Network for input on development	Target - March 2007	 Allows a large rebate for much needed weatherization, insulation, and appliance improvements Added comfort and reduced energy bills
 Low Interest Loan Program Will offer low interest loans to residential customers Research underway 	Target - Jan 2007	 Allows customer to take advantage of a low interest loan to purchase energy efficient equipment and services
Refrigerator Buy back and Recycle • Encourage customers to get rid of older inefficient refrigerators • Research underway	Target – Jan 2007	 Reduced energy consumption for customer Completely removes and recycles older inefficient refrigerators
Attic Insulation Rebate • Encourage customers to increase the level of insulation in their attics • Research underway	Target – Jan 2007	Added comfort and reduced energy bills for residential customers
Photo Voltaic • Planned rebate is \$1.50 per watt for residential PV Systems	Target – Jan 2007	 Added incentive for customers wanting to add PV Electric systems to their homes (can be used in combination with existing State rebates and Federal tax credits)
Customized Business Rebate • Encourages existing businesses to implement energy conservation measures that reduce peak demand and energy • Can be used for lighting, HVAC, motors, controls, energy management systems, etc. • Rebate amount is up to 50% of the project or \$40,000 whichever is lower • Developed Administrative Guideline • Developed web site, written materials	Complete	 Allows the flexibility for most businesses to implement conservation measures specific to their needs Reduced peak demand and energy usage.

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LED Exit Sign Rebate

- Incentive for businesses to change out their existing incandescent or compact fluorescent exit signs with new high efficiency LED exit signs
- Up to \$75 for each sign replaced
- Developed Administrative Guideline
- Developed web site, written materials

Complete

- Reduced energy usage saves up to \$25 per year per sign
- Reduced operational costs
- LEDs last about 100,000 hours vs. incandescent 1000 – 2000 hours and compact fluorescent 10,000 – 15,000 hours

Smart Vend Program

- Motion sensor/timer device installed on refrigerated drink vending machines - provided to vending machine owners (\$175 value)
- \$15 incentive for each device installed
- Agreement signed with major vending machine company to install 20 per month

Complete

- Reduced energy consumption and heat discharge at customer's facility About \$250 savings per year per machine
- Great visibility

Education and Information Programs

ACHIEVEMENT

School Curriculum Kits

- Produced ten more kits for middle and elementary schools
- The kits cover the importance of renewable resources, environmental protection, where energy comes from and how to save it at home and school. Games and interactive activities are used to present the lessons.

STATUS

Ten kits completed; setting up school delivery

BENEFIT

- Educational fun curriculum that teaches energy and water efficiency habits which can lead to lifestyle changes
- GRU/Community involvement
- Energy savings

Energy Efficient Lighting Display

- Researched options
- Two metered lamps used to compare incandescent and CFL lamps

In Progress – finalizing purchase

 Educational display demonstrates the difference in energy use for CFL and incandescent bulbs

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ENERGY STAR® "Change a Light Pledge" • Program details posted to gru.com and promoted in Customer Bulletin	Complete and ongoing	 Encourages customers to change at least one bulb to one that is ENERGY STAR® certified Based on research, pledging is the first step to modifying behavior
GRU "Change a Light" Model Home • Energy efficient lighting upgrades to be installed and showcased in a 2006 Fall Parade of Homes home	Ongoing	 GRU/Home Builder partnership 29 CFLs expected to be installed Informational pieces available in the home for all visitors as well as outdoor signage
"Win Energy Savings" Contest • Contest posted to gru.com and promoted in Customer Bulletin	Complete	 120 CFLs will be distributed among 20 winners Registration forms gather data on how many CFLs, if any, are currently installed at customer locations
Online Energy Tools Implemented a web-based software solution to help customers manage their energy use Assists customer service representatives with customer questions	Complete	 Shows customers about ways to manage their energy usage Energy calculators compare energy efficiency savings for appliances
Energy and Water Efficiency Kits Kits are provided to those completing online energy profile (described above) or the mail out survey Kits include Package of two leak detecting dye tablets Low flow swivel nozzle for kitchen faucet 8 outlet and 4 switch gaskets 13-watt compact fluorescent light bulb 15-watt compact fluorescent light bulb Hot water temperature gauge	Target – Nov 2006	Helps customers take the first steps toward energy efficiency Energy reduction and savings for customer

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card

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Low flow showerhead

GRU Website Changes

 Updated energy efficiency information on www.gru.com with more prominently displayed, up-todate rebate information, and information segmented by type of energy user (renter, owner, small business)

Complete

 Website is easier to use Customers can quickly find information on GRU rebates and reducing energy usage in their homes.

Speaker's Bureau

 Expand communication efforts in an attempt to secure more speaking engagements on energy efficiency. Updated website and will utilize letters, emails and phone calls Updated and expanded the mailing list to include more relevant organizations and associations

Ongoing

- Builds relationships with community organizations.
- Provides an open forum for two-way communication
- Helps get out word about programs and customer role in energy efficiency

Rates and Regulatory Reform

ACHIEVEMENT STATUS BENEFIT

Electric Baseline Rate

• Implemented baseline rate • Electric rate below 250 kWh was decreased and offset with an increase of the rate above 750 kWh.

Completed

research,

Community

Committee

Development

to

• The rate below 250 kWh is subsidized encouraging conservation • It also represents a minimum level of electrical usage for a residential customer

Enhancement of Energy Efficiency for Rental Property

 Investigating ways to encourage landlords to provide units that are energy efficient, with appliances that meet Energy Star specifications. • Possible mechanisms include the Minimum Housing Code or legislative changes to the State Building Code

Preliminary Encourages energy efficiency in rental properties presentation

Legislative Issues

Florida Municipal Efficiency

Ongoing -Proposals will

 Currently FMEC is investigating the issue of water heaters with a demand

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Committee (FMEC) is compiling a list of regulatory issues that they will propose jointly for resolution by the legislature

be made to Legislature early in 2007 of over 4500 Watts

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Planning & Research

ACHIEVEMENT	<u>STATUS</u>	BENEFIT
 Performance Tracking System Implemented a performance management system to track energy efficiency programs Sample Energy Efficiency Scorecard to be provided 	Draft Complete	Program managers can better manage and report the performance of their programs
Demonstration of Energy Efficient Design (DEED) Project • Project launched last fall partnering with UF to investigate energy usage in low income households to determine reasons for high energy intensity and possible programs to address their individual needs • Funding of \$25,000 from DEED to help with cost	In Progress - surveys complete; analysis 95% complete; draft of final report from UF expected at the end of October 2006	Allows the creation or modification of energy efficiency programs to address needs of low income customers
Residential Appliance Saturation Survey • Updated the 1991 survey of appliance stock for GRU customers for Demand Side Management modeling • Achieved a 42% response rate	Complete	Increase quality of DSM modeling
Florida Public Service Commission Renewable Energy Questionnaire • Participated in a survey of Florida utilities on renewable energy efforts within the last five years	Complete	 As a participant, will receive a comprehensive report on renewable energy efforts in Florida.
Florida Municipal Efficiency Committee (FMEC) • Formed committee comprised of JEA, OUC, Lakeland, Tallahassee and Florida Municipal Power Agency	Ongoing	 Economy of scale for joint research on energy conservation measures Facilitates coordination on legislative initiatives, marketing and program development

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Research Collaboration

 Established load research contacts through the Florida Solar Energy Center (FSEC)

Ongoing

 Seek expertise from UCF and FSEC on load research compiled for

Progress Energy

Energy Orb

 Purchased an Energy Orb with light and pulse indicators that show the real time level of energy usage for customers

Preliminary Testing

Currently evaluating as an energy use alert tool for residential

customers

Automated Meter Reading

 Presentations from Silver Spring Networks, Energy Axis, TWAC, AMI

Preliminary

 Pilot program to evaluate the benefits of automated meter reading on customer awareness, customer data and utility operations

Load Research

Conducting Pilot with Enetics SPEED recorders

Ongoing

 Update energy savings, demand savings and customer costs for energy conservation measures
 Increase quality of DSM modeling

City Facility Energy Efficiency Plan

- Developed a charter for a self directed work team to look at energy and water efficiency practices in City/GRU facilities and create a plan to improve efficiencies within existing and new facilities
- Team members from GRU's conservation, plants, and facilities departments along with General Government's codes and facilities departments
- Team will also look at existing Green Building ordinance for possible modifications

Preliminary

- Energy and Demand reductions for City and GRU facilities
- Demonstration of City commitment to conservation

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