

RUC ITEM #100339

Energy Efficiency Update Part 1

RUC March 30th, 2011



Agenda

- Overall Strategy
- Current Status
- Program Overview
- Cost Effectiveness

Strategy

- Incentives
 - Residential
 - 14
 - Business
 - 2
 - Low Income
 - LEEP
 - E-Star for Affordable Housing
 - CWC
 - Renewable
 - 3



Strategy

- Education

- Energy Efficiency Road Show
- Energy Surveys
- Home Energy Report
- Gainesville Greens & Tools for Tenants
<http://dev.toolsfortenants.com/analyze-comparison>
- Web Site
- School programs

Strategy

- **Tiered Rate Structure**

- Residential Electric
 - 0 – 250 kWh \$0.032 kWh
 - 251 – 750 kWh \$0.068 kWh
 - Over 750 kWh \$0.102 kWh
- General Service Non-Demand
 - 0 – 1,500 kWh \$0.080 kWh
 - Over 1,500 kWh \$0.108 kWh
- Residential Water
 - 0 – 9 kiloGallons \$1.99 kGal
 - 10 – 24 kiloGallons \$3.65 kGal
 - Over 24 kiloGallons \$6.00 kGal
- Residential Irrigation
 - 0 – 15 kiloGallons \$3.65 kGal
 - Over 15 kiloGallons \$6.00 kGal



Current Status

- Through 1st Qtr 2012
 - 64,450 MWh
 - Equivalent to 6,510 houses
 - 13,644 kW
- 5 Year Goal
 - 103,344 MWh
 - 18,630 kW

Residential Programs

- Added Insulation
 - Started in FY'07
 - \$0.125/ft² up to \$375
 - 1,631 Participants
 - 2,508 MWh saved
 - 876 kW reduced
- Duct Leak Repair
 - Started in FY '06
 - Up to \$375
 - 2,704 Participants
 - 3,483 MWh saved
 - 1,398 kW reduced

Residential Programs

- **Central A/C 15 SEER**
 - Started in FY'06
 - \$300 rebate
 - 856 Participants
 - 467 MWh saved
 - 311 kW reduced
- **Central A/C Super SEER**
 - Started in FY '07
 - \$550
 - 2,235 Participants
 - 3,760 MWh saved
 - 2,318 kW reduced

Residential Programs

- Refrigerator Buy-Back
 - Started in FY'07
 - \$75 incentive
 - 2,256 Participants
 - 3,752 MWh saved
 - 562 kW reduced
- High Efficiency Pool Pump
 - Started in FY '08
 - Up to \$350
 - 621 Participants
 - 1,104 MWh saved
 - 271 kW reduced

Residential Programs

- Home Performance w/ Energy Star
 - Started in FY'08
 - up to \$1,435
 - 1,288 Participants
 - MWh and kW saved
 - Included with other programs
- Low Interest Loans
 - Started in FY '08
 - 3% fixed up to \$10,000
 - 262 Participants
 - 301 MWh saved
 - 98 kW reduced

Residential Programs

- Irrigation Tune Up
 - Started in FY'08
 - up to \$75
 - 150 Participants
 - 6 MWh saved
 - 5 kW reduced
- CFLs
 - Started in FY '07
 - Free or reduced cost
 - 188,007 Distributed
 - 12,770 MWh saved
 - 109 kW reduced

Residential Programs

- Heat Pump Water Heater Pilot
 - Started in FY'11
 - \$200
 - 3 Participants
 - 5 MWh saved
 - 1 kW reduced
- Natural Gas Appliances
 - Started in the 90's
 - Up to \$850
 - 1,200 Participants
 - 4,185 MWh saved
 - 509 kW reduced

Low Income Programs

- E-Star for Affordable Housing
 - Started in FY'07
 - \$300
 - 66 Participants
 - 99 MWh saved
 - 42 kW reduced
- LEEP
 - Started in FY '07
 - Average \$3000
 - 486 Participants
 - MWh and kW saved
Included with other programs

Renewable Programs

- Solar Water Heating
 - Started in FY'97
 - \$500
 - 124 Participants
 - 182 MWh saved
 - 25 kW reduced
- Solar PV Rebate (Res)
 - Started in FY '07
 - Up to \$7,500
 - 93 Participants
 - 797 MWh saved
 - 256 kW reduced

Renewable Programs

- Feed-In-Tariff
 - Started in FY'09
 - Up to \$0.29 per kWh
 - 113 Participants
 - 6,457 MWh saved
 - 1,422 kW reduced

Business Programs

- Customized Business
 - Started in FY'07
 - 50% up to \$100,000
 - 450 Participants
 - 26,852 MWh saved
 - 4,939 kW reduced
- Smart Vendor
 - Started in FY '07
 - Free device (\$135 value)
 - 928 Units
 - 1,625 MWh saved

Phased out programs

- Central A/C Maintenance
 - 4,171 Participants
- High Efficiency Room A/C
 - 928 Participants
- Reflective Roof Coating
 - 18 Participants
- Heat Recovery Water Heater
 - 4 Participants
- LED Exit Signs
 - 4,481 Units
- Savings
 - 3,185 MWh Saved
 - 1,192 kW Reduced

Cost Effectiveness

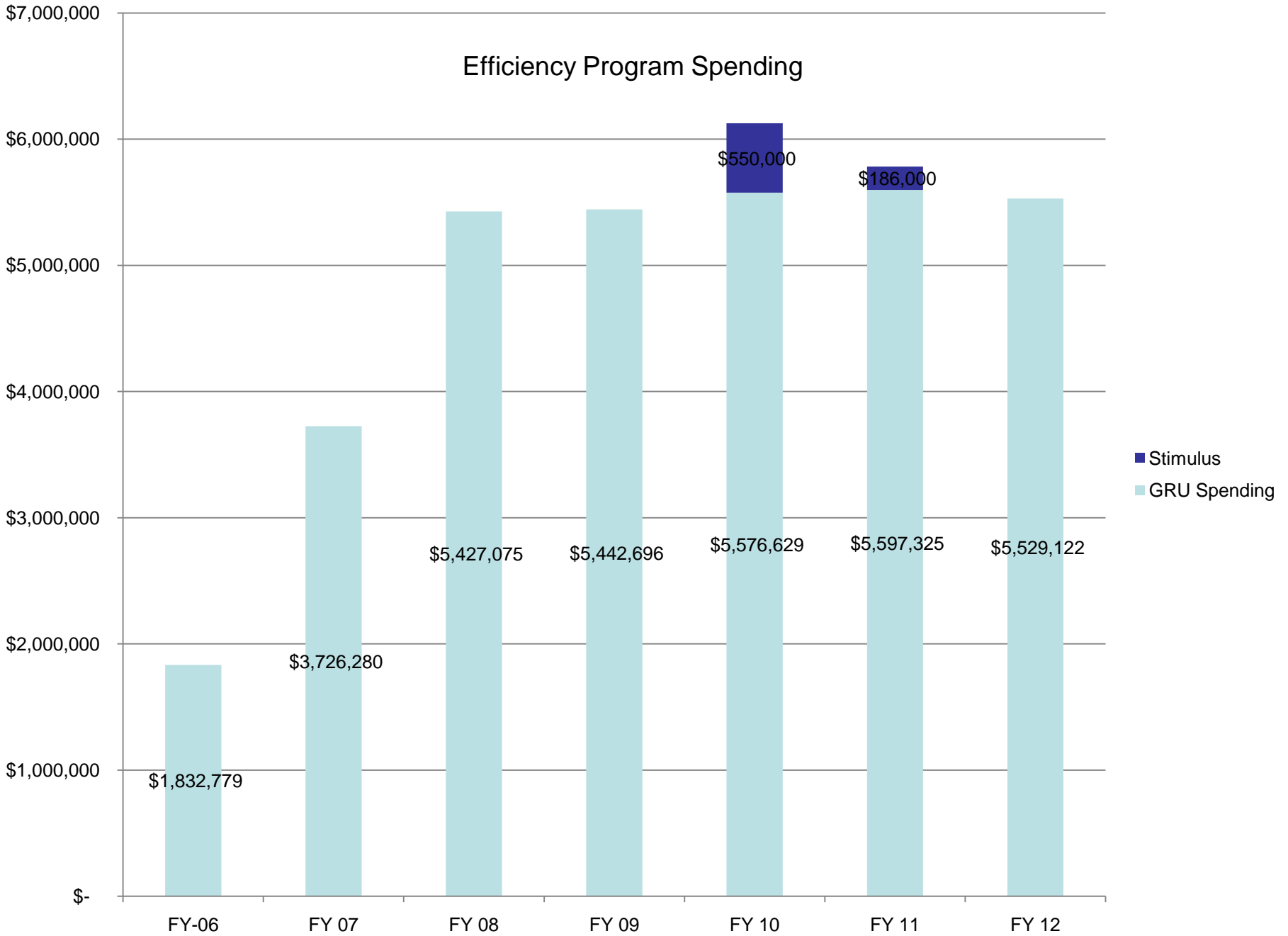
- Evaluated based on
 - Marketing Expenses
 - Labor Expenses
 - O&M
 - Training
 - Certifications
 - Vehicles, etc.
 - Rebate Expenses
 - Our calculated energy and demand savings



Cost Effectiveness

- “All in” levelized cost
- \$17.75 per MWh
- ICF was assuming \$23 per MWh
- Programs are evaluated every year
 - Additions, Changes or Deletions made as necessary
 - Participation
 - Heat Recovery Unit
 - Cost
 - Reflective Roof Coating
 - Absorbing A/C Maintenance into Home Performance w/ Energy Star
 - Evaluating Low Interest Loan Program
 - Regulatory Changes
 - 13 SEER Central A/C
 - Piloting a Heat Pump Water Heater program this year

Efficiency Program Spending



Thank you!

