

# GRU100

100 YEARS of SERVICE | 1912-2012

## Energy Efficiency Programs FY '13

RUC



# Agenda

- **Review of Economic Tests**
- **Cost Effectiveness**
- **Strategy**
- **System Sales**
- **Program Awareness**
- **Residential Programs**
- **Renewable Programs**
- **Business Programs**
- **Recommended Program Changes**



# Review of Economic Tests

- **Prior to FY '07 used Rate Impact Measure**
  - Most utilities used this test, IOU's were required to use this test
  - Only allows programs that have a positive or neutral impact to rate payers
  - Few programs were able to pass this measure
  - Only had Energy Surveys, efficiency kits and limited HVAC programs
- **FY '07 changed to Total Resource Cost**
  - More progressive utilities such as Austin, SMUD, and City of Burlington, VT
  - Allows all programs that have a benefit to both Utility and Customer
  - Allows many more programs to pass
  - More than 20 new programs were rolled out as a result

# Cost Effectiveness

- “All In” levelized costs
- ICF assumed \$23 per MWh
- Additions, changes or deletions are based on
  - Participation, Cost & Regulatory Changes
  - Labor Expenses
  - Marketing Expenses
  - O&M
    - Training
    - Certifications
    - Vehicles, etc.
  - Rebate Expenses
  - Our calculated energy and demand savings

# Strategy

- **Incentives**
  - Residential
    - Low Income - LEEP
  - Business
  - Renewable
- **Education**
  - Energy Surveys
  - Home Energy Report
  - Gainesville Greens & Tools for Tenants  
<http://dev.toolsfortenants.com/analyze-comparison>
  - Web Site
  - School programs
  - Partnering Contractor Workshops



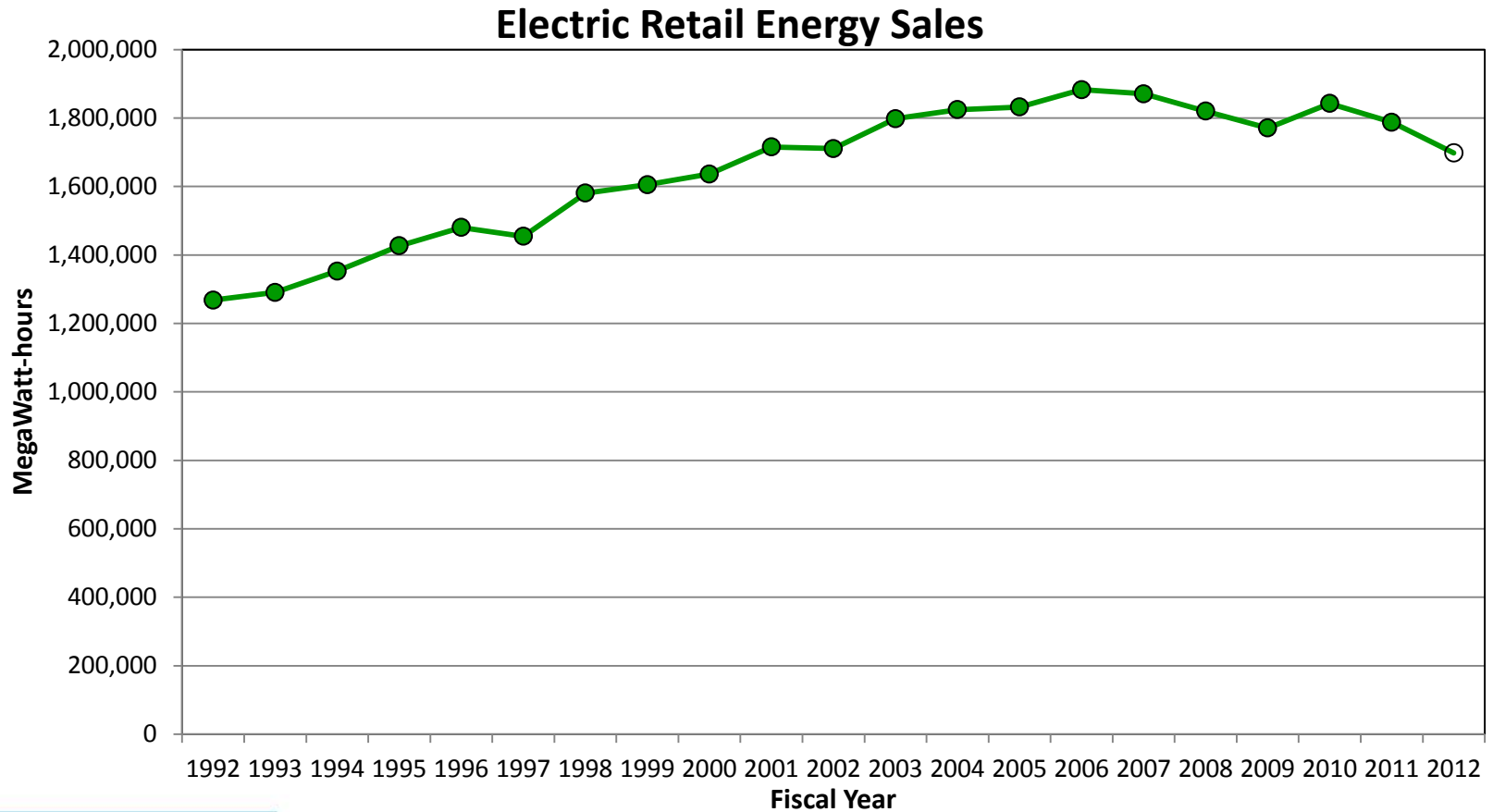
# Strategy

- **Tiered Rate Structure**

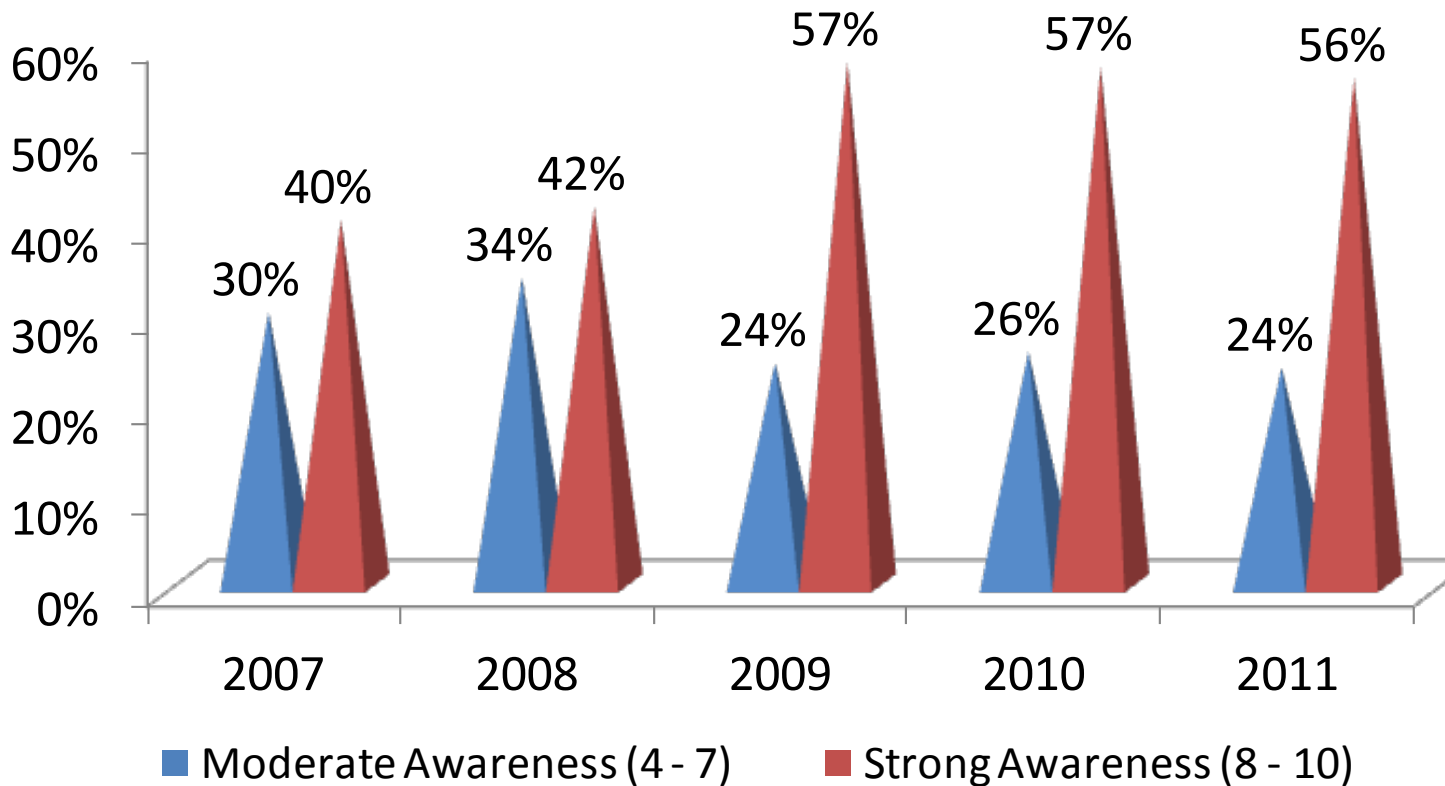
- Residential Electric
  - 0 – 250 kWh \$0.034 kWh
  - 251 – 750 kWh \$0.068 kWh
  - Over 750 kWh \$0.102 kWh
- General Service Non-Demand
  - 0 – 1,500 kWh \$0.080 kWh
  - Over 1,500 kWh \$0.108 kWh
- Residential Water
  - First 7 kiloGallons \$2.05 kGal
  - >7 – 20 kiloGallons \$3.65 kGal
  - Over 20 kiloGallons \$6.00 kGal
- Residential Irrigation
  - 0 – 13 kiloGallons \$3.65 kGal
  - Over 13 kiloGallons \$6.00 kGal



# System Sales (economy, growth, incentives, education)



# Rebate Awareness Among Customers



More than eight in ten GRU customers (83%) are aware of conservation rebates from the utility



# FY '13 Residential Programs

- **Duct Leak**
  - Started in FY '06
  - Up to \$375
  - 3,576 Participants
  - 4,578 MWh saved
  - 1,817 kW reduced
  - Cost/program \$35.19
- **Central A/C Super SEER**
  - Started in FY '07
  - \$550
  - 2,768 Participants
  - 5,036 MWh saved
  - 2,809 kW reduced
  - Cost/program \$23.62

# FY '13 Residential Programs

- **Added Insulation**
  - Started in FY '07
  - \$0.125/ft<sup>2</sup> up to \$375
  - 2,287 Participants
  - 3,552 MWh saved
  - 1,278 kW reduced
  - Cost/program \$6.92
- **Refrigerator Buy-Back**
  - Started in FY '07
  - \$50 incentive
  - 2,769 Participants
  - 4,346 MWh saved
  - 633 kW reduced
  - Cost/program \$12.60

# FY '13 Residential Programs

- **Heat Pump Water Heater**
  - Started in FY '11
  - \$200
  - 11 Participants
  - 18 MWh saved
  - 4 kW reduced
  - Cost/program \$6.04
- **High Efficiency Window Installation**
  - Started in FY '12
  - Up to \$300
  - 31 Participants
  - 17.8 MWh saved
  - kW reduced NA
  - Cost/program \$10.63

# FY '13 Residential Programs

- **Home Performance w/ENERGY STAR®**
  - Started in FY '08
  - up to \$1,400
  - 1,790 Participants
  - MWh and kW savings are included with other programs
  - Cost/program N/A
- **LEEP (Low-income Energy Efficiency Program)**
  - Started in FY '07
  - Average \$3,200
  - 808 Homes
  - MWh and kW savings are included with other programs
  - Cost/program N/A

# FY '13 Residential Programs

- **Low Interest Loan**
  - Started in FY '08
  - 6% fixed APR; up to \$10,000
  - 301 Participants
  - 364 MWh saved
  - 126 kW reduced
  - Cost/program \$121.91
- **Home Energy Report**
  - Started in FY '09
  - 40,000 Participants
  - 9,276 MWh saved
  - 1,000.4 kW reduced
  - Cost/program \$53.04

# FY '13 Residential Programs

- **Natural Gas**
  - Started in the 90s
  - Up to \$850
  - 1,533 Participants
  - 4,673 MWh saved
  - 575 kW reduced
  - Cost/program \$10.21
- **CFLs**
  - Started in FY '07
  - Free or reduced cost
  - 188,007 Distributed
  - 12,770 MWh saved
  - 109 kW reduced
  - Cost/program \$28

# FY '13 Residential Programs

- **High Efficiency Pool Pump**
  - Started in FY '08
  - Up to \$250
  - 845 Participants
  - 1,501 MWh saved
  - 370 kW reduced
  - Cost/program \$28
- **Irrigation Tune Up**
  - Started in FY '08
  - up to \$75
  - 174 Participants
  - 6 MWh saved
  - 5 kW reduced
  - Cost/program N/A

# FY '13 Residential Programs

- **Residential Green Building**
  - Started in FY '08
  - 845 Participants
  - MWh saved N/A
  - kW reduced N/A
  - Cost/program N/A





# FY '13 Renewable Programs

- **Feed-In-Tariff**

- Started in FY '09
- Up to \$0.24 per kWh
- 185 Participants
- 15,821.7 MWh saved
- 3,485 kW reduced
- Cost/program \$320

- **Solar Water Heating**

- Started in FY '97
- \$500
- 131 Participants
- 192 MWh saved
- 26 kW reduced
- Cost/program \$40

# FY '13 Renewable Programs

- **Solar PV (Res)**
  - Started in FY '07
  - Up to \$7,500
  - 103 Participants
  - 1,237 MWh saved
  - 272 kW reduced
  - Cost/program \$59.37

# FY '13 Business Programs

- **Customized Business**
  - Started in FY '07
  - 50% up to \$100,000
  - 502 Participants
  - 33,406 MWh saved
  - 6,086 kW reduced
  - Cost/program \$11.14

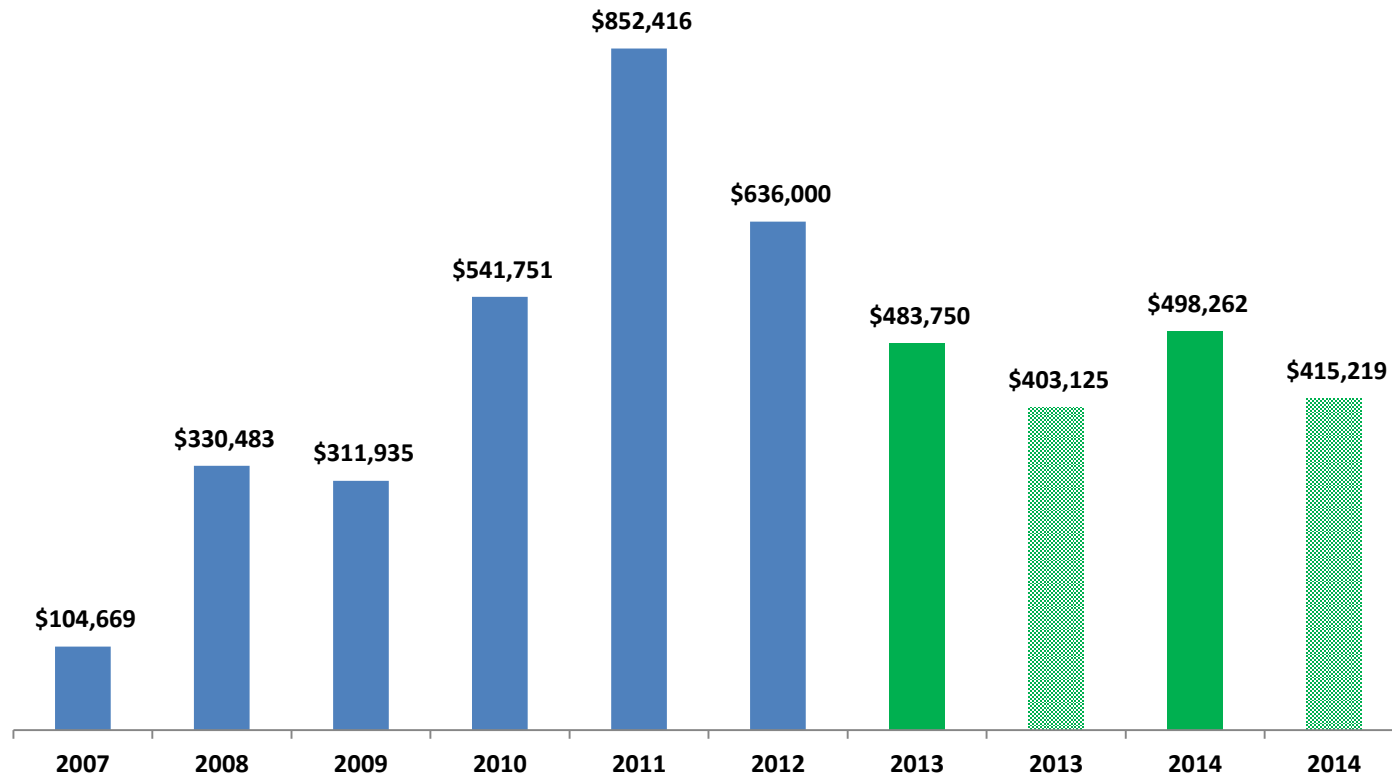
- **Low-flow Commercial Pre-rinse Nozzles**
  - Started in FY '12
  - No Charge (SJRWMD)
  - 12 Participants
  - Cost/program (new)

# Recommended Program Changes

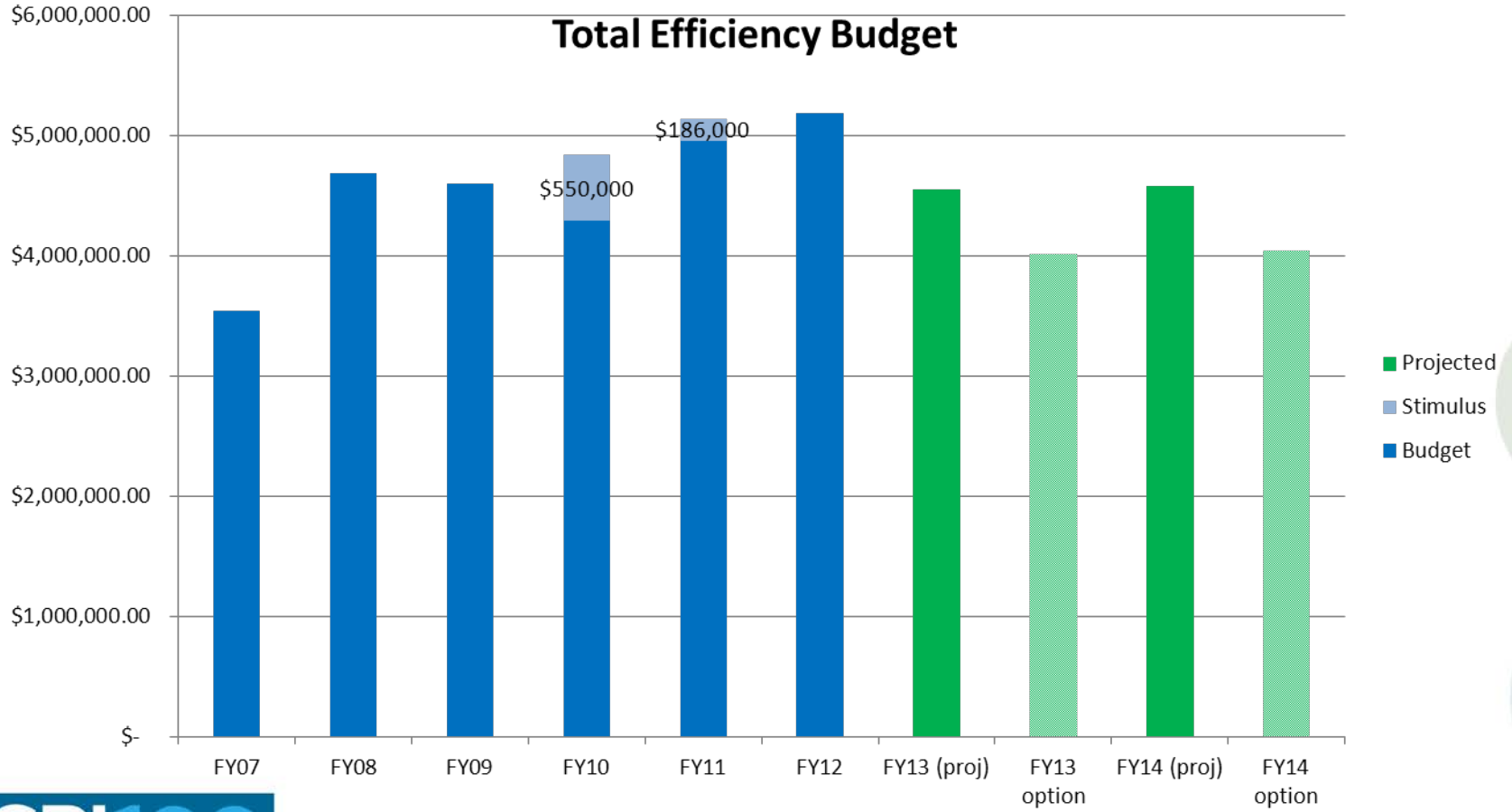
- **Low Interest Loan**
  - Discontinuing due to high cost
- **Solar PV (Res)**
  - Modifying from \$1.50/MW to \$1.00/MW due to declining installation costs
- **Duct Leak Repair**
  - Reviewing test requirements due to regulatory changes
- **CFLs**
  - Included in LEEP
- **Home Energy Report (Pilot)**
  - Discontinuing pilot
- **Residential Green Building**
  - Discontinuing due to participation

# Recommended Program Changes with option

- **LEEP** - Pre-stimulus level of homes targeted to 150 or 125 (option)



# Staff Recommendation with option





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Thank you!

