Energy Efficiency – A Community’s Perspective

David Barclay
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FPSC Staff Workshop
Who is GRU

- Gainesville Regional Utilities (GRU) is a multi-service utility owned by the City of Gainesville and is the 5th largest municipal electric utility in Florida.
- Approximately 89,000 electric retail customers in Gainesville and surrounding unincorporated areas.
- Most recent summer peak 481 MW
- Total installed capacity 611 MW
Long Term DSM Commitments

- DSM included in GRU’s 2008 Ten Year Site Plan
- Goals
  - Incremental Demand - 48 MW by 2017
  - Incremental Energy – 128,000 MWh by 2017
- Long term impacts
  - Decrease demand growth by ~ 60% a year
    - Projected growth 7.9 MW / year
    - Projected DSM 4.8 MW / year
  - Decrease energy growth by ~ 22% a year
    - Projected growth 58,000 MWh / year
    - Projected energy reduction 12,800 MWh / year
On April 12, 2006 The Gainesville City Commission directed staff to:

"1. Include the **Total Resource Cost test** as a consideration to pursue all cost effective and feasible demand side measures including demand response, energy efficiency, load management and innovative rate design options. Ensure that the needs of low income customers are addressed in demand side management programs.

2. Have GRU staff conduct a thorough examination of all DSM options and **present a plan to the commission** to develop and implement all cost effective DSM and demand response measures..."
The Process

  - Over 50 public meetings
  - Over 20 meetings with City Commission
  - Identified need for new economical base load capacity
  - Plan utilized Rate Impact Measure (RIM) test
  - Conducted two independent reviews of IRP
  - April 2006 City Commission took action
- Learning from energy efficiency leaders 2006
  - Staff visits with: Austin Energy, Burlington Electric, Long Island Power Authority, Sacramento Municipal Utility District, Pacific Gas and Electric
Resulting Programs

- Added Insulation
- Central Air Conditioner Maintenance
- Duct Leak Repair
- Energy Star for Affordable Housing
- Heat Pipe Enhanced Air Conditioner
- Heat Recovery Unit
- High Efficiency Central Air Conditioner
- Super SEER Air Conditioner
- High Efficiency Room Air Conditioner
- LEEP (Low-income Energy Efficiency Program)
- Low Interest Loan Program
- CFL Program
- Reflective Roof Coating for Mobile Homes
- Refrigerator Buyback and Recycling
- On-line Residential Survey
- Energy Efficiency Kit
- Solar Electric (PV) System Rebate Program
- Solar Water Heating Rebate Program
- On-line Business Survey
- Customized Rebate
- Exit Sign Replacement
- Smart Vendor
Community Commitment

- October 2006 – December 2007
  - 2.9 MW
  - 17,541 MWh
  - $3M total GRU expenditures
  - Over $7.5M total customer investment
  - Over 6,000 participants (not including CFLs)
  - Over 63,000 CFLs distributed
Stand Out Program

- **Custom Business Rebate**
  - $708,101
  - 120 of Customers
  - 1.2 MW and 6,678 MWh

- **Low-Income Energy Efficiency Program**
  - Assists low-income customers with comprehensive whole house improvements
  - $2,600 for each home
  - 100 homes completed to date
Stand Out Program

- Solar Photovoltaic
  - January 2007 – February 2008
  - 193 kW installed
  - State program July 2006 – February 2008
  - 1,129 kW installed

- Second refrigerator buyback and recycling
  - 663 refrigerators recycled
Continuous Review

- Not every program will succeed
- No program will succeed without some changes
- Metrics and goals measured frequently
- Make others aware of these metrics and goals
- Quarterly program review between key players
- Measurement and Verification (M&V)
Measurement and Verification Challenges

• “Fox guarding the henhouse,” keeping track of the data, understand the value of M&V, when do you reevaluate

• Our approach
  – Early peer review – Roger Duncan – Austin Energy
  – 3rd party M & V – KEMA
  – Adjust programs where necessary
Conclusion

- TRC was the right choice for Gainesville
- Goal can only be achieved with a community effort
- Continuous review is necessary
- Measurement and Verification plays a vital role