Southwest DSM Update

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SWEEP Workshop
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Southwest DSM

- 2007 Legislative Activities
- New Mexico Electric DSM
- Colorado Electric DSM
- Colorado Gas DSM Expansion
Current Energy Efficiency Goals

Colorado Electric DSM
- 320MW in peak reduction
- 800 GWh in energy savings
- Implement programs 2006-13 to achieve overall goal
- DSM goals established through a 2004 settlement to allow Xcel Energy to expand Comanche plant in Pueblo

New Mexico DSM
- No official goals for 2007
- Statewide DSM goal is for utilities to achieve 5% reduction in total sales by 2020
New Mexico Overview

- Southwestern Public Service (dba Xcel Energy) serves over 80,000 residential and 8,000 business electric customers
- Major population centers: Hobbs, Clovis, Roswell, Carlsbad and Portales
- New DSM goals filed in October for 2008
- Xcel Energy has voluntarily offered DSM programs the last 5-10 years in small scale
New Mexico DSM Legislation

- Efficient Use of Energy Act of 2005 created statewide DSM
- 2007 Legislation (Senate Bill 418)
  - Achieve 5% reduction in total retail sales, adjusted for growth, by January 1, 2020
  - Represents an average of 12.5 GWh/ year for Xcel Energy
New Mexico DSM Programs (08)

- **Business Programs**
  - Lighting Efficiency
  - Cooling Efficiency
  - Custom Efficiency

- **Residential Programs**
  - Home Lighting (CFL’s)
  - Air Source Heat Pump rebates
  - EnergyWise® energy efficiency kits

- **Low Income Programs**
  - Electric Heat Weatherization
  - Refrigerator upgrades
  - Home Lighting Giveaways

- **Industrial Self-Direct Program**
Expansion Considerations

- Product Development will be assessing the following concepts for a possible addition to the New Mexico portfolio in 09/10:
  - Dual-stage Evaporative Cooling rebates
  - Refrigerator Recycling
  - Energy Star New Homes
  - Energy Star Home Performance
  - Electric Water Heater rebates
  - Saver’s Switch (Demand Response)
Colorado Overview

- Public Service of Colorado (dba Xcel Energy) serves over 1.4M residential and nearly 200,000 business electric and/or natural gas customers
- Major population centers: Denver, Boulder, Pueblo (gas) and Grand Junction
- Current DSM goal: 320MW/800GWh between 2006-2013
- New electric DSM plan with higher goals (~double) through 2020 filed on 10/31/07
Colorado 2007 DSM Legislation

House Bill 1037

- Gas DSM
  - Minimum spend requirement of 0.5% of retail natural gas revenues
  - Performance bonus: up to 20% of net economic benefits and 25% of expenditures

- Electric DSM
  - Energy savings and peak demand reduction goals established by the PUC
  - Minimum saving requirement of 5% of 2006 peak demand and energy sales by 2018
Colorado DSM Programs

**Business**
- Energy Design Assistance
- Recommissioning
- Lighting Efficiency
- Motor Efficiency
- Cooling Efficiency
- Custom Efficiency
- Energy Management Systems
- Energy Analysis

**Residential**
- Saver’s Switch
- Evaporative Cooling
- Home Lighting
- Central AC Tune Up

**Low Income**
- Gas Home Weatherization
- Home Lighting Giveaways
Colorado DSM Learnings

- **Business Programs**
  - Focused on Lighting Efficiency and building trade network
  - Variable Frequency Drive rebates far exceeded participation forecasts in first two years

- **Residential Programs**
  - Interest in evaporative cooling is increasing
  - Strong customer response from retail CFL buy-down events
  - HVAC contractor interest in tune-up offering is mixed
Expansion Considerations

- **Gas and/or Electric DSM**
  - Residential -
    - Energy Star® New Homes
    - Energy Star® Home Performance
    - Furnace/Boiler/Water Heater rebates
    - Home Energy Audits
    - Energy Efficient Showerheads
    - Consumer Education
    - Insulation Rebates
    - Prescriptive Low Income rebates
  - Business -
    - Energy Design Assistance
    - Recommissioning
    - Custom Efficiency
    - Energy Management Systems
    - Business Boiler rebates
    - Energy Analysis for Business
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