

Demand-side Management at Rocky Mountain Power

Utah Energy Efficiency Working Group

March 19, 2007



Agenda

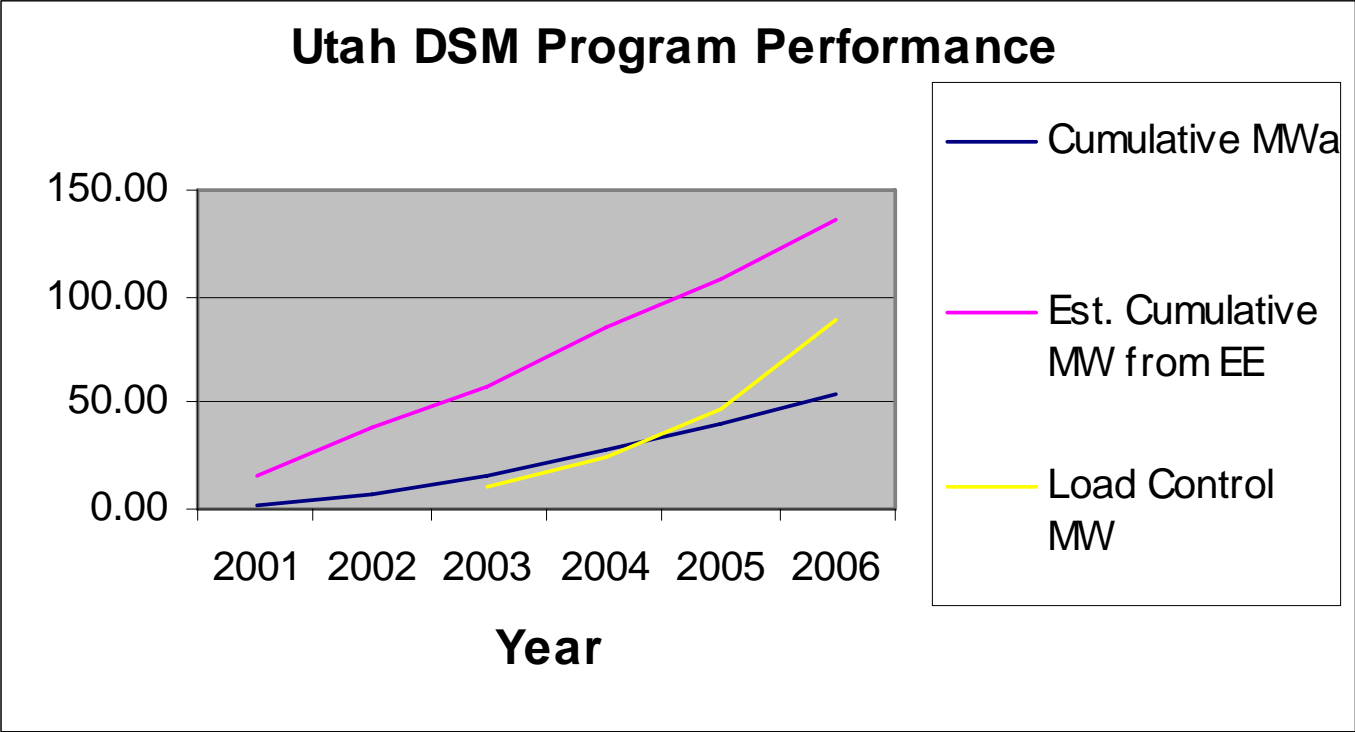
- ▶ Performance to date
- ▶ New programs
- ▶ Savings forecast
- ▶ Other key initiatives
- ▶ Questions

2006 Program Results

Rocky Mountain Power, Utah only

Programs	MW	MWh	Costs
Cool Keeper		86	\$8,623,852
Load Lightener		0	\$7,712
Total load control/management		86	\$8,631,564
Energy FinAnswer		4	\$4,934,858
FinAnswer Express		12	\$3,004,690
Self-Direction		3	\$186,734
Recommissioning		0	\$210,951
Central A/C "Cool Cash"		2	\$1,499,145
Home Energy Savings		1	\$240,630
Refrig Recycle "SYLR"		5	\$3,751,501
Low Income Wx		0	\$118,514
Energy Star New Homes		3	\$1,848,156
Total Energy Efficiency		29	\$15,795,179
Power Forward	20-200		\$0
Total Expenditures (tariff rider)			\$24,426,743
Self-Direction Credits issued			\$972,662

2001-2006 Program Results



2007 Program Forecast

Rocky Mountain Power, Utah only

Programs	MW	MWh	Costs
Cool Keeper	96		\$8,100,000
Irrigation Load Control	8		\$369,635
Total load control/management	104		\$8,469,635
Energy FinAnswer	4	40,504	\$7,290,683
FinAnswer Express	6	30,749	\$4,304,912
Self-Direction	2	9,922	\$180,000
Recommissioning	1	4,462	\$1,023,000
Central A/C "Cool Cash"	2	1,264	\$1,384,958
Home Energy Savings	3	11,653	\$2,828,986
Refrig Recycle "SYLR"	2	11,095	\$3,240,000
Low Income Wx	0	987	\$317,134
Energy Star New Homes	3	3,554	\$2,138,398
Total Energy Efficiency	23	114,190	\$22,708,071
Power Forward	20-200		\$100,000
Total Expenditures (tariff rider)			\$31,177,706
Self-Direction Credits issued			\$1,567,687

Program Summary

Program Name	Description
Cool Keeper-Air Conditioner Load Control	Active, dispatchable control of residential and small commercial central electric air conditioners. Air Conditioners are cycled on and off during peak load periods by means of a switch installed on the air conditioner. Customers receive a \$20 'Thank You' credit for their participation.
Irrigation Load Control	New in 2007! Pre-scheduled control in exchange for Oct bill credit. Credit depends on hours and frequency of control. Pumps \leq 25 HP pay \$170 – partial offset for equipment cost. Seasonal enrollment – now through April 9.
Energy FinAnswer	Engineering & incentive package for improved energy efficiency in new construction and retrofit projects. Commercial, industrial, and irrigation. Customers are incented on a \$/kwh and \$/kW basis up to 50% of the eligible project cost.
FinAnswer Express	Commercial and industrial customers may receive pre-calculated incentives for high-efficiency lighting, premium efficiency motors, HVAC equipment and other measures. Available for retrofits and new construction.
Self-Direction Credit	Program provides large business customers the opportunity to receive bill credits totaling 80% of eligible project costs for qualified investments in energy efficiency and related demand side projects. These credits may be used to offset 100% of the Customer Efficiency Services charge on the monthly bill.
Recommissioning	Program provides building/system analysis performed by qualified Recommissioning Service Provider to identify low/no cost energy efficiency measures.
Cool Cash	Customer and dealer incentives to encourage installation of high efficiency cooling equipment, both electric central air conditioning units and evaporative aka swamp coolers. Also includes incentives for best practice measures.
Home Energy Savings	Incentives to encourage the installation of energy-efficient appliances, home improvement projects and heating and cooling equipment/services.
Refrigerator Recycling aka “See ya later refrigerator”	A residential incentive program to remove inefficient refrigerators and freezers from the market. Participants receive a \$40 incentive and an energy saving packet.
Low Income Weatherization	The company partners with local non-profit agencies to provide no cost residential weatherization services to income qualifying households.
Energy Star New Homes	Builder incentives to encourage the installation of measures to meet Rocky Mountain Power Energy Star homebuilding standards – requires air conditioning improvements

New Programs

- ▶ Irrigation Load Management
- ▶ Solar Incentive

Irrigation Load Management

- ▶ Pre-scheduled control in exchange for October bill credit
- ▶ Control period May 25 - September 15
- ▶ Four control options (hours are between 2pm to 8pm)
 - ▶▶ 6 hours two days a week (Mon/Wed or Tues/Thurs)
 - ▶▶ 6 hours one day a week (Mon-Thur)
 - ▶▶ 3 hours four days a week (Mon-Thur)
 - ▶▶ 3 hours two days a week (Mon/Wed or Tues/Thurs)
- ▶ Bill credit depends on hours and frequency of control
 - ▶▶ Range from \$5.41/kw to \$11.19/kw (connected load)
- ▶ Individual metered sites
 - ▶▶ >25HP - no cost to customer
 - ▶▶ 25 HP or less - \$170 fee (covers part of cost of load control equipment)
- ▶ Annual enrollment
 - ▶▶ Solicitation letters are being mailed to all Schedule 10 customers March 12th
 - ▶▶ Enrollment period runs through April 9th (some flexibility here)

Solar Incentive Program

- ▶ DRAFT design for five year pilot program
 - ▶▶ Runs April 23, 2007 (tentative) through December 31, 2011
 - ▶▶ Open to residential, business, and public building installations
 - ▶▶ Program is capped at 107 kW (AC) per year
 - ▶▶ Year by year enrollment required, first come first serve
 - ▶▶ Incentive is \$2 per watt - based on $W_{(AC)}$
 - ✓ Residential project cap 3- 5 kW
 - ✓ Business/public buildings project cap 15-25 kW
 - ✓ Larger projects can be built – incentive paid up to cap kW only
 - ▶▶ Equipment specifications
 - ✓ California Energy Commission's Emerging Renewables Program qualifying equipment list
 - ▶▶ Net metering/grid connection required of qualifying projects
 - ▶▶ Pre approval and post inspection required of all projects
 - ▶▶ Installation must be done by either a Utah General Electrical Contractor (S200) or Solar Energy Systems Contractor (S215)
 - ▶▶ Public Service Commission of Utah filing week of March 19, 2007

Other Key Activities

- ▶ Potential Study
 - ▶▶ Updated information on the amount and type of demand side management opportunities in each state
 - ▶▶ Study complete in late June
- ▶ Questar Coordination/Vendor Meeting
 - ▶▶ Further integrate Rocky Mountain Power program marketing, delivery and administration with Questar programs
 - ▶▶ First meeting - March 8
 - ▶▶ Next meeting scheduled for early summer
- ▶ Code Training
 - ▶▶ Code changed to 2006 IECC (from 2003 IECC) in January 2007 – good opportunity
 - ▶▶ State Energy program managing project with primary focus on residential.
 - ▶▶ Third party (selected through state issued RFP) delivery during 2007
 - ▶▶ RMP committed to \$40,000 (40% of \$100,000 project cost) contingent on commission support for recovery through tariff rider. Questar is also a sponsor.
- ▶ Governors Action Plan

Questions

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