







Xcel Energy Colorado DSM Roundtable Discussion

November 14, 2012 9:00am to 11:00am 1800 Larimer, Room 03G01

Welcome and Introductions

Contact Info: Neil Cowan

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Agenda

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9:00 – 9:05 Welcome, Introductions
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9:05 – 9:15 **Regulatory Update**

9:15 – 10:00 **DSM Program Highlights**

10:00 - 10:15 **Break**

10:15 – 10:45 **Product Development**

- Settlement Related Development (Current RFP Status, EE Financing, Waste to Energy)
- Pilot Updates
- Ongoing Development (Upcoming 2012 60 Day Notices, New Ideas)

10:45 - 11:00 Wrap-up/Open Discussion

Regulatory Update

Presented by:

Neil Cowan

Compliance information is available at Xcel Energy's DSM Website:

http://www.xcelenergy.com/About_Us/Rates_&_Regulations/Regulatory_Filings/CO_DSM

Timeline of Recent Filings

July 30, 2012

Unopposed Motion to Extend to April 1, 2013 to develop programs for non-solar eligible energy resources site on customer premises

Docket No. 11A-631EG

November 1, 2012

Notice of Specific Plan for Meeting the 11.2 GWh Shortfall in its Electric DSM Portfolio for 2013

Docket No. 11A-631EG

July August September October November December

October 10, 2012

Energy Efficiency Financing
Product

Docket No. 12A-1083EG

Future Filings

2013

- April 2013 Annual Status Report
- June 2013 Strategic Issues Filing
- July 2013 2014 Plan

60-Day Notices

First Quarter 2012

In Home Smart Device Pilot – March 1

Second Quarter 2012

ENERGY STAR New Homes – June 27

60-Day Notices (cont...)

Third Quarter 2012

- Low-Income Single Family Weatherization August 16
- Low Income Single Family Weatherization Program Evaluation – August 22
- Business Heating Efficiency Program Evaluation August
 22
- Showerhead Program Evaluation August 24
- Self Direct Program Evaluation August 24
- 2012 RFP for AC Tune-Up Program October 1
- Process Efficiency October 4
- Lighting Efficiency October 22
- Computer Efficiency October 31

DSM Program Highlights

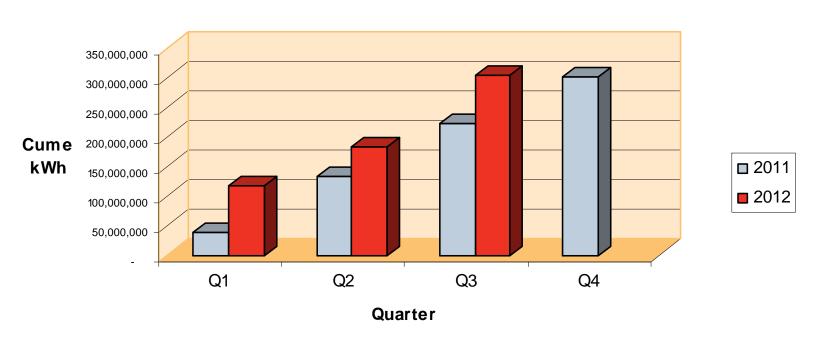
Presented By: Shawn White David Hueser Kate Berg

Preliminary Third Quarter 2012 DSM Achievements, Total DSM Portfolio

- 2012 Electric Targets: 79.3 MW; 329.3 GWh; \$78.1M
- Electric Achievements: 76.7 MW; 303.9 GWh; \$55.7M
- Gas Goals: 435,504 Dth; \$13.2M
- Gas Achievements: 270,235 Dth; \$8.5M

Electric Energy Savings (kWh) continues to outpace Q3 2011

Colorado DSM Portfolio 2011/2012 Cumulative Electric Achievement, Quarterly Comparison



DSM Program Overview, Business Energy Efficiency Program Highlights

David Hueser

Product Updates

Heating Efficiency

- 60-Day Notice with Program Evaluation recommendations, filed August 22, implemented September 23, 2012
- Technical Assumptions fine tuned
 - Efficient equipment efficiencies
 - Equipment effective useful life
 - Net To Gross
- Investigate enhanced boiler tune-up option
- Beyond simple ROI tool, evaluate enhanced energy savings calculator tool for HVAC contractors



Photo: Knight, Lochinvar

Product Updates

Lighting Efficiency, Small Business Lighting

- Phasing out fluorescent T12-removal rebates
- 30% bonus rebate ends December 31, 2012
- Application turn-in deadline May 1, 2013

60-Day Notice October 22, 2012

- Three new prescriptive measure categories
- Reduced rebates due to market pricing

Available Fluorescent Lighting Systems



T5 – In

T8 – In (most common)

T12 - Out (virtually all)

Photo: Sylvania

	Proportion of commercial lighting efficiency savings attributed Fluorescent T12-system removal (retrofits, optimization/delamp				
Program Milestones		PSCo Lighting Efficiency		PSCo Small Business Lighting	
	Year	Savings (GWh)	% of Total	Savings (GWh)	% of Total
T12 phase-out (cont.)	2012 (to Oct)	25.5	31%	10.7	37%
T12-removal bonuses →	2011	21.9	38%	8.1	54%
L.E. Rebates increased	2010	20.7	42%	2.2	44%
SBL Launched (6/09) →	2009	17.6	33%	.2	75%

Product Updates

Self-Direct

- 60-Day Notice with Program Evaluation recommendations, filed August 24, implemented September 25, 2012
- Continue increased incentive for large industrial and commercial customers able to self-fund, implement, measure and verify energy-saving initiatives



Photo: Ball Corp.

- Retained customer eligibility requirements
- Expand outreach to Energy Service Companies (ESCOs), performance contractors and engineering consultants

Residential and Low-Income Program Highlights

Kate Berg

Insulation Program Enhancements

- Increased Quality Assurance measure
 - BPI Certification
 - Pre and Post blower door testing
 - Air sealing (unless .45 NACH is met)
 - CAZ test check box
 - Onsite M&V for 2013 applications
- Technical changes
 - Updated incremental costs, air sealing requirement and participation
- 2012 Contractor Training
 - Mini grants for BPI certification continuing through year end
 - Over 50 contractors participated
 - 40 contractors (without BPI) enrolled in certification course currently

Single Family Weatherization Program Enhancements

- Additional measures
 - Water Heaters
 - Storm Windows
 - Crawl Space insulation
 - Attic insulation (in manufactured homes)
- Evaluation Changes
 - # of bulbs per home
 - Improvements per home
 - Home type
 - Climate zones

Electric Heat Pump Water Heaters

- Increase in participation
- Enhanced Promotions
 - **■** Combo letter- City of Denver
 - Direct Email Campaign
 - Newsletter
- **■** Retailer Support

High Efficiency Air Conditioning

- Increase in participation
- Improved M&V findings
- Enhanced Promotions
 - Combo letter- City of Denver
 - Bonus rebate
- Preliminary evaluation results

DSM Product Development Update

Presented by:

Kevin Schwain, Andre Gouin and Pat Goggin

DSM Website provides program idea submission forms at:

http://www.xcelenergy.com/About_Us/Rates_&_Regulations/Regulatory_Filings/CO_DSM_Plan

Product Development Team

- 10 Resources able to flex across 3 Platforms
 - Energy Efficiency
 - Renewable Energy
 - Demand Response
- Manager: Kevin Schwain, 612-330-5961
- Colorado Team Lead: Pat Goggin, 303-294-2370
- Pilot Lead: Andre Gouin, 303-294-2975

Settlement Development Update

AC Tune Up RFP Update

- Unable to find a cost effective solution
 - **■**Multiple Iterations with the bidders
 - Fundamental challenges in CO
- Filed 60 Day Notice on October 1st
- Received comments from the EEBC
- We will maintain an open dialogue

Innovative Technology RFP Update

- Received 12 detailed proposals
- Selected 4 to pursue further
 - Fill the gap at expected cost
 - Finalizing Technical Assumptions
 - Negotiating Contracts
- 60 Day Notices to follow

Energy Efficiency Financing

- Worked with stakeholders to define program
- Filed Application and Received Order Granting Application from PUC Pending 20 Day Reconsideration Period
- Proceeding with Implementation Plans
 - Begin with Marketing Existing Energy Efficiency Loan Products where they exist
 - Facilitate Creation of Energy Efficiency Loan Products in areas where don't exist
 - Expect January launch

Waste to Energy Projects

Purpose:

■ To implement a program applicable to Eligible Energy Resources installed on customer premises.

Status:

- PUC Staff initiated an investigation into combined heat and power (CHP) systems, likely to encompass Waste to Energy projects
- Company agreed to delay filing until April 30th 2013
- Workshop scheduled for December 4th, 2012
- Findings will be used to inform Company's final filing

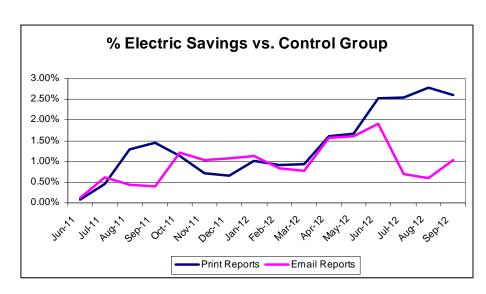
Commercial RTU Early Retirement

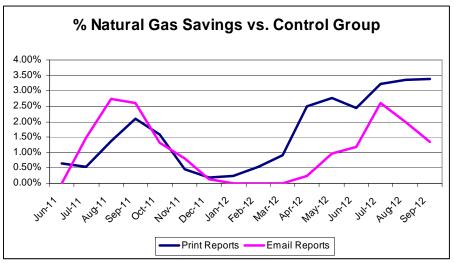
- Revised Technical Assumptions Your Feedback
- Looks marginally cost effective
- Final review stage
 - **■** Degradation = loss of performance
 - Doesn't necessarily = increased energy
 - Difficult to model

Pilot & Study Update

Energy Feedback Pilot

- □ 50,000 Colorado participants; 40k print reports, 10k e-mail reports
- Savings in line with original projections (2% electric, 1% gas)
- ☐ Program will expand to an additional 50,000 participants in January 2013





12.2 GWh cumulative savings

56,000 DTh cumulative savings

Xcel In-Home Smart Device Pilot

Preliminary Learning's

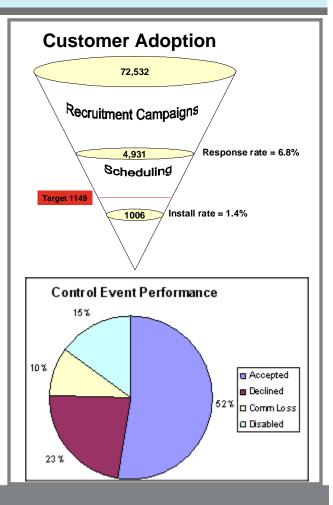
- Low adoption, take rate ~ 1.4%
- Working on customer side of meter poses unique challenges
- 50% of devices not controllable or customer disabled
- Rapid technology change = device obsolescence

Pilot Status

- Ongoing Operations & Customer Support
 - 13 control events to date
 - Few warranty/installation issues ~ 5%
- Focus on customer outreach
 - Monthly communication providing tips and information
 - Participant survey to determine likes, most beneficial features

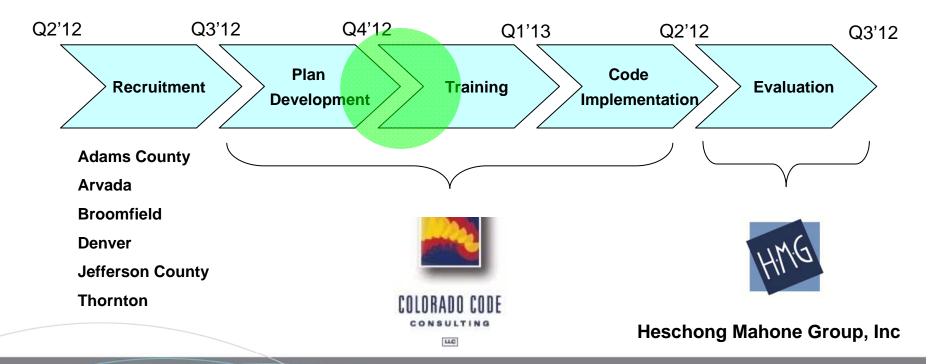
Next Steps

- Prepare the preliminary evaluation report with 2012 data
- Review survey results and adjust outreach plan as needed



Building Code Support Pilot

Pilot remains on track, expected to conclude with evaluation results June 2013



EV Demand Response Pilot

■ Determine demand response opportunity available through control of electric vehicle charging stations and better understand:

Purpose

- Customer's willingness to allow interruption of charging
- Available load coincidence with peak demand



- Deployed control devices for testing and evaluation
 - Xcel Energy distribution center, residential customer
- Re-evaluating control devices to:

Status

- Maintain costs
- Provide better customer experience

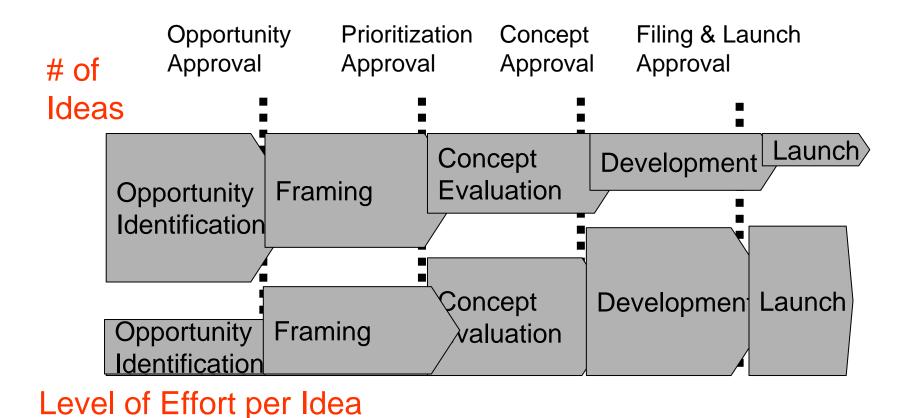


- Repowering transportation inquiries
- EVIX list of vehicles purchased within PSCo territory



Ongoing Development Update

Product Development Process



Product Pipeline

- Most promising products identified
- Vetting internally
- Next steps
 - Approval to proceed
 - Allocate resources
- Target inclusion in 2014 DSM Plan

DSM Roundtable Ideation Submissions – 3rd Quarter

- Received no new Product Ideas
- New Opportunity Identification Form

New Ideas?

CO Roundtable Ideas

- Submit complete Roundtable Idea Form at least 90 days prior to a CO Roundtable Meeting in order for an analysis to be presented at that meeting.
- Incomplete Idea Forms will be returned to submitter for completion
- 90 Day window starts when form is complete

Roundtable Idea Form:

http://www.xcelenergy.com/staticfiles/xe/Regulatory/Regulatory %20PDFs/RushCODSMProductDevelopmentIdeationForm.pdf

