



Crossing the Other Chasm: Successful Transfer of Emerging Technologies Into Tomorrow's Programs

ACEEE National Market Transformation Symposium Anne Kraft, Xcel Energy April 12, 2011

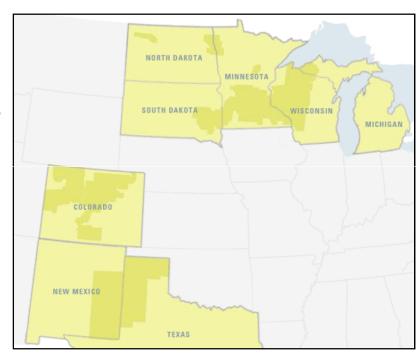
Presentation Overview

- Xcel Energy
- Emerging Technology Objectives
- Tracking & Reporting
- Information Sources
- Technology Migration
- Other Channels
- Emerging Technology Grant



Xcel Energy

- 3.4 Million Electric Customers
- 1.9 Million Natural Gas Customers
- #1 Wind provider in the nation
- #5 in solar power capacity in the nation
- Spend around \$235M on DSM annually



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Emerging Technology Objectives

- Track and report out to Marketing and Xcel Energy Executives the status of the development of emerging technologies relating to energy efficiency.
- Tracking and reporting will aid in long-term planning and help focus efforts to bring new products to our DSM programs.
- Tracking is ongoing with reporting occurring twice per year.



Tracking & Reporting

- MS Access Database
- Request information from marketing staff
- Review of Custom Efficiency projects
- Leverage external information sources
- Summarize information for management twice per year



Information Sources

- ACEEE
- Consortium for Energy Efficiency (CEE)
- Custom Efficiency Program
- EPRI Energy Efficiency Initiative
- Emerging Technologies Coordinating Council (ETCC)
- ESource
- National Commission on Energy Policy
- Public Interest Energy Research (PIER)
- MN Technical Assistance Program (MN TAP)



Technology Reporting

- Energy Efficiency technologies
- Various definitions of emerging technologies
 - Development of technology itself
 - ◆ A proven technology available in limited supply
 - A technology that is underused (emerging in the marketplace)
- Various timeframes to consider for programs
 - Now
 - Within 5 years
 - ♦ 5+ years out



Technology Migration from Custom to Prescriptive

- Commercial High-bay Lighting
- Commercial Parking Garage CFL Lighting
- Commercial LED Lighting
 - ◆ Interior Lamps & Fixtures
 - Refrigerator/Freezer Case Lighting
 - Outdoor Canopy and Soffit Lighting



Other Channels

- Pilot testing new concepts
 - Low exergy systems
 - Energy feedback
- Intervener/Stakeholder requests
 - Advanced evaporative cooling
 - Residential A/C tune-up
 - Refrigeration temperature sensing
 - ◆ A/C thermostat controls
- Emerging Technology Grant Program



Emerging Technology Grant

- Objective is to accelerate the introduction and market adoption of innovative energy efficiency technologies, applications and analytical tools
- Started in 2010, two projects funded
- Budget of \$936k for 2011 covering MN and CO
- ETG Oversight Committee reviews proposals and selects recipients

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