STATUS OF ENERGY EFFICIENCY IN THE MIDWEST

Efficiency as a Resource
ACEEE Conference
September 26, 2011
Denver
Efficiency Trends in the Midwest

- Funds invested in efficiency continues to increase in individual states and throughout the region
- New political leadership – need for education on EE
- Need aggressive programs to achieve increasing goals of mandated standards
- Potential efficiency savings from increased code compliance
- Need targeted outreach to reach industrial users
- Opportunity for Regional EM&V

The Source On Energy Efficiency

Midwest Energy Efficiency Alliance
Midwestern Governors after 2010 Elections

- Jack Dalrymple*
- Dennis Daugaard**
- Dave Heineman
- Sam Brownback
- Mark Dayton
- Terry Branstad
- Scott Walker
- Rick Snyder
- John Kasich
- Pat Quinn
- Steve Beshear
- Jay Nixon
- Mitch Daniels
- Steve Beshear

Legend:
- Party Change
- No Change
- No Election

* ND Lt. Gov assumed Governor’s office on 12/7
** New Governor, Same Party

Source: MEEA (Midwest Energy Efficiency Alliance)
Midwestern State Senates after 2010

Ratios are Majority: Minority
(vacant)

Previous Majority

Changed After 2011 Recall Election
Midwestern State Houses after 2010 Elections

Ratios are Majority:Minority (:Independent)

No State House

Previous Majority

The Source on Energy Efficiency Alliance
Energy Efficiency is a Bipartisan Issue

State House/Senate and Governor party affiliation at the time of the first enactment of statewide energy efficiency policy.
Estimated Annual Investment in Energy Efficiency in the Midwest

January 2011

Estimated Annual Investment in Energy Efficiency in the Midwest:

- **Natural Gas**
  - $0.390

- **Electricity**
  - $1.581

- Total Estimated Investment:
  - $1.191

Earlier Statewide EE:
- **MN**
  - 1983 – Pilot legislation
  - 1991 – CIP requirement adopted

- **IA**
  - 1990 – Initial legislation
  - 1996 – Legislation updated

- **WI**
  - 1999 - Public Benefit Fund Adopted

EERS Legislation:
- **IL** Gas
- **MN** Electric, Gas
- **MI** Electric, Gas
- **OH** Electric, Electric

Admin Order:
- **IN** Electric

Legislative Committee:
- **WI** EERS overturned

Data Sources:
- MEEA
- Eers-Wisconsin
- Usdoe-ee-policy
- Cpi-ee-

Yearly Investment:

Billions

$1.800
$1.600
$1.400
$1.200
$1.000
$0.800
$0.600
$0.400
$0.200
$0.000
Future Midwest Efficiency Targets and Funding

2010 $1.06 billion
2015 $1.58 billion

- **Illinois**
  - 1.4% elec currently
  - 1% gas currently

- **Iowa**
  - 1.4% elec currently
  - 1% gas currently

- **Minnesota**
  - 1.5% elec current
  - 1.5% gas current

- **Missouri**
  - IRP process

- **Michigan**
  - 1% elec by 2012
  - 0.75% gas by 2012

- **Wisconsin**
  - 0.7% elec currently
  - 0.4% gas currently

- **Ohio**
  - 2% elec by 2015
  - gas in discussion

- **Indiana**
  - 2% elec by 2019
  - gas none yet

- **Kentucky**
  - Voluntary elec and gas

May 2011
Midwestern Governors Association
Energy Efficiency Goals

• Maximize economy-wide investment in energy efficiency initiatives that are less expensive than other energy options.

• Meet at least 2% of regional annual retail sales of electricity and 1.5% of regional annual retail sales of natural gas through energy efficiency improvements by 2015, and continue to achieve at those levels every year thereafter.
The Path to 2% Regional Electricity Savings

Source: MEEA Staff Estimates, May 2011
Residential Building Energy Code Adoption in the Midwest

As of August 2011

- No Mandatory Statewide Code
- Pre-2000 Code
- 2000 IECC
- 2003 IECC
- 2006 IECC
- 2009 IECC

- 2009 Adopted by Major Municipality
- In Process to 2009
- Weakening Amendments Proposed
Commercial Building Energy Code
Adoption in the Midwest

As of August 2011

- Pre-1999 Code
- 90.1-1999
- 90.-2001
- 90.1-2004
- 90.1-2007
- 90.1-2007 Adopted by Major Municipality

No Mandatory Statewide Code
Building Energy Codes Midwest Activities

• Code Adoption (IECC 2009 and IECC 2012)
  – State and Municipal
• Codes Training
  – IECC, ASHRAE and Stretch Codes
• Compliance Pilot Studies
  – Plan to achieve 90% Compliance by 2017
• Utility Claimed Savings Programs
• Third Party Enforcement Programs
Regional Industrial Overview

Total Use: 6,179.70 Trillion BTU

Total Industrial Energy Consumption, 2008 (trillion BTU)

- Ohio, 4: 1,341.00
- Illinois, 7: 1,236.90
- Michigan, 11: 756
- Iowa, 13: 654.1
- Wisconsin, 15: 619
- Minnesota, 16: 615.1
- National Average: 614
- North Dakota, 37: 213.7
- South Dakota, 44: 129.9

State, National Rank
Midwest Industrial Initiative

• Foundation-funded to promote EE with Industrials
• Catalog of regulatory statutes for Industrial efficiency
• Develop case studies and catalogue best practices as resource for utilities and industrials
• MEEA Role
  – Work with Federal, states, utilities, and industrial groups
  – Create a forum for idea sharing and networking
  – Coordinate with regional Industrial Assessment Centers
  – Convene discussions on new and emerging industrial technologies and processes
  – Link industrial customers to utilities and other programs
  – Encourage industry adoption of ISO 50001
Midwest Regional Opportunities

• Education & Outreach
• Best Practices & Lessons Learned
• Statewide & Regional Program Implementation
• Regional EM&V
• Training Programs
• Technology & Program Pilots
• Response to new EPA and CAA regulations
Contact Information

Jay Wrobel, Executive Director
jwrobel@mwalliance.org
312-784-7245

Midwest Energy Efficiency Alliance
www.mwalliance.org