



**MEEA**  
Midwest Energy Efficiency Alliance

# EERS vs. IRP: WHY STATES SHOULD NOT ELIMINATE THEIR ENERGY EFFICIENCY RESOURCE STANDARDS

Nicholas Dreher

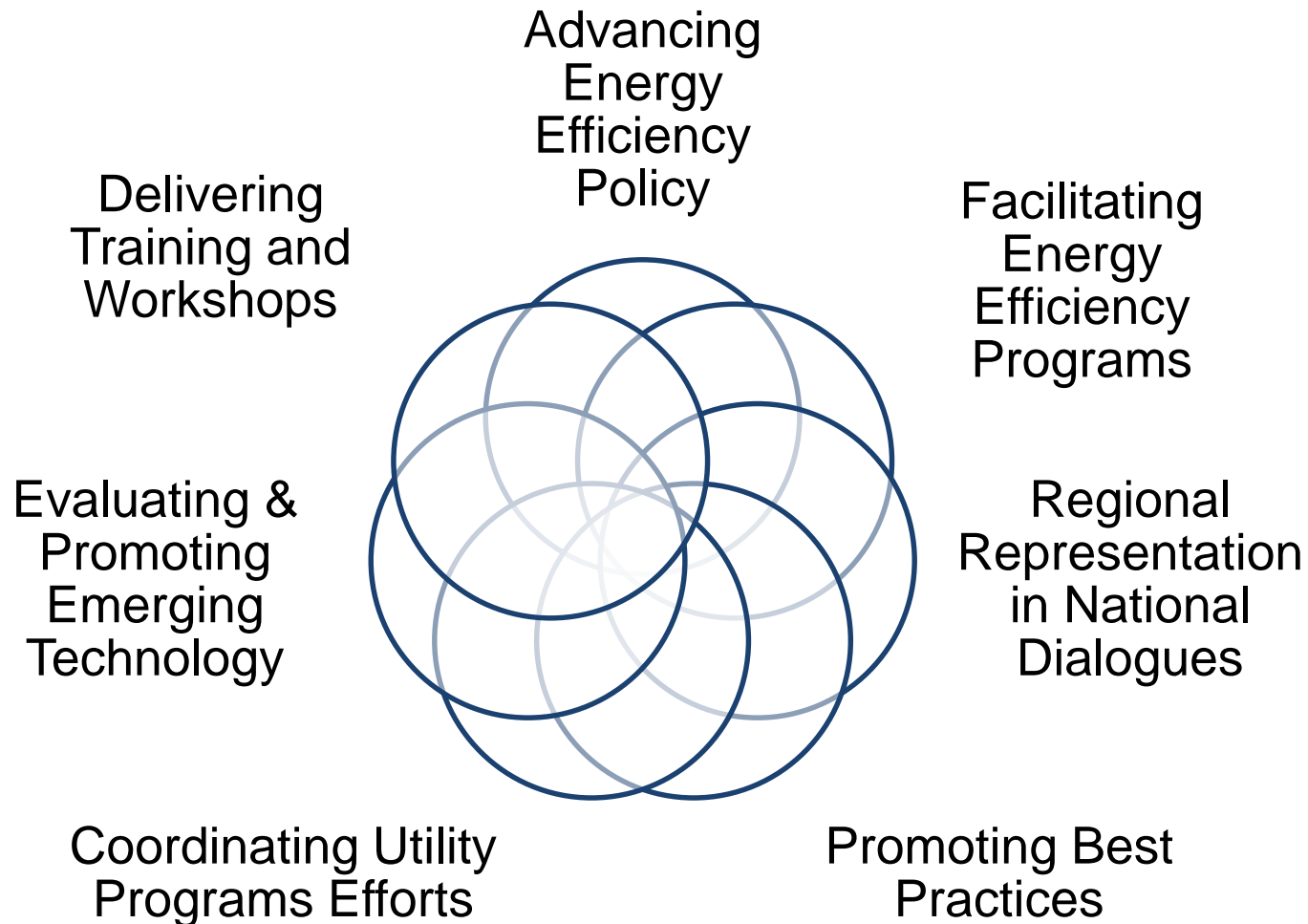
Presented at the 2015 ACEEE National  
Conference on Energy Efficiency as a Resource

# Midwest Energy Efficiency Alliance (MEEA)

- ❖ **MEEA is a nonprofit membership organization with 150+ members, including:**
  - Electric and Gas Utilities
  - State and local governments
  - Manufacturers and retailers
  - Academic and research institutions
  - Energy service companies and contractors
- ❖ **Since 2000, MEEA has been the leading source for raising awareness and advancing sound energy efficiency policies and programs in the Midwest**
- ❖ **MEEA balances the diverse interests of its members and network** across the public and private sectors, creating a common ground to affect positive change for energy efficiency in the Midwest.



# MEEA's Role as a Resource





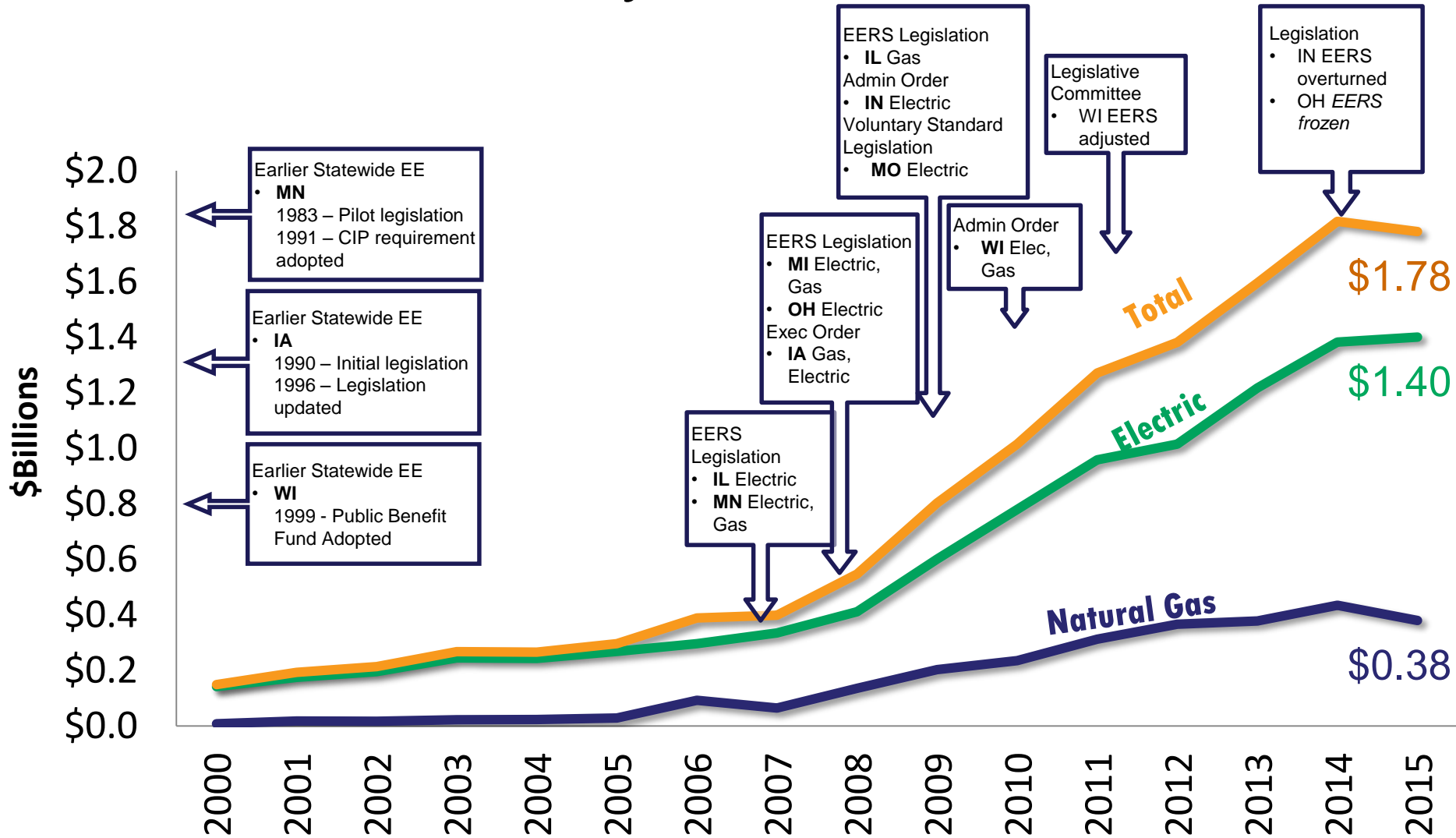
# Energy Savings for States with an EERS vs. those Without

The top 19 states in EE savings all have EERS  
No state has saved 1% per year without an EERS



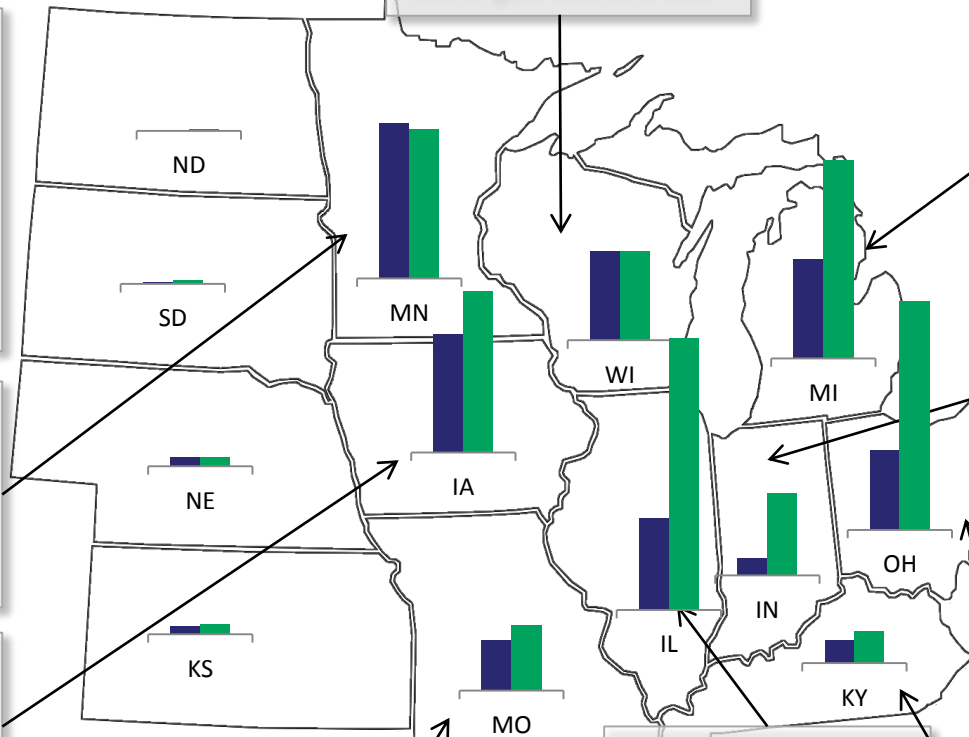
Source: ACEEE

# Estimated Annual Utility Investment in Energy Efficiency in the Midwest



# Midwest Efficiency Targets and Funding Levels

2010 \$1.01 billion  
 2015 \$1.78 billion



**North Dakota**  
**South Dakota**  
**Nebraska**  
**Kansas**  
 Voluntary energy efficiency only

**Minnesota**  
 1.5% elec by 2010  
 1.0% gas by 2010  
 (gas goal reduced by commission)

**Iowa**  
 Set on a utility basis  
 1.2% elec current plans  
 0.85% gas current plans

**Missouri**  
 IRP process;  
 Voluntary electric

**Illinois**  
 2% elec by 2015  
 1.5% gas by 2017  
 Fund sweep of State program proposed

**Michigan**  
 1% elec by 2012  
 0.75% gas by 2012  
 Legislative rollback proposed

**Indiana**  
 Overturned 2014  
 Future legislation & funding unclear

**Ohio**  
 Two-year "freeze" after 2014.  
 Future legislation & funding unclear.

**Kentucky**  
 Voluntary electric and gas

# Midwest Efficiency Savings - Electric

**Wisconsin**  
 No specific targets  
 0.6% elec current est.

**2010**

5.4 million MWh

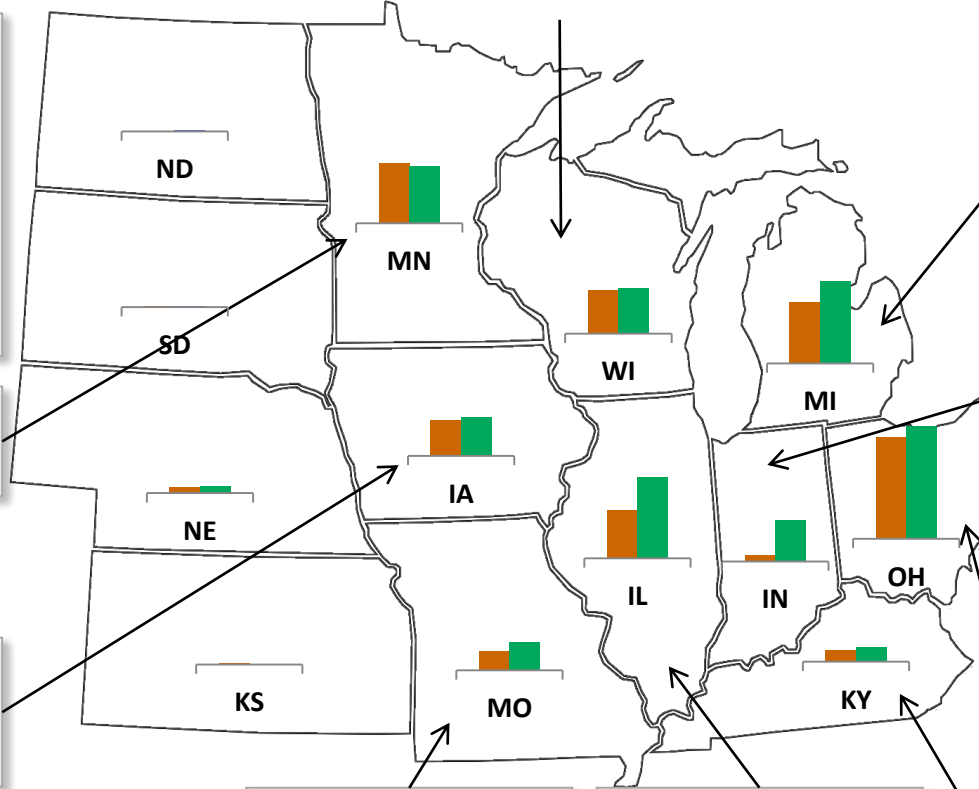
**2015**

7.0 million MWh

**North Dakota  
 South Dakota  
 Nebraska  
 Kansas**  
*Voluntary electric efficiency only*

**Minnesota**  
 1.5% elec by 2010

**Iowa**  
*Set on a utility basis*  
 1.2% elec current plans



**Michigan**  
 1% elec by 2012

**Indiana**  
*Overtaken 2014.*  
*Future legislation & funding uncertain*

**Ohio**  
 Two-year “freeze” after 2014.  
*Future legislation & funding uncertain*

**Missouri**  
 IRP process;  
 Voluntary electric

**Illinois**  
 2% elec by 2015

**Kentucky**  
*Voluntary electric efficiency only*

As of August 2015



# Midwest Efficiency Savings – Natural Gas

**Wisconsin**  
 No specific targets  
 0.5% gas current est.

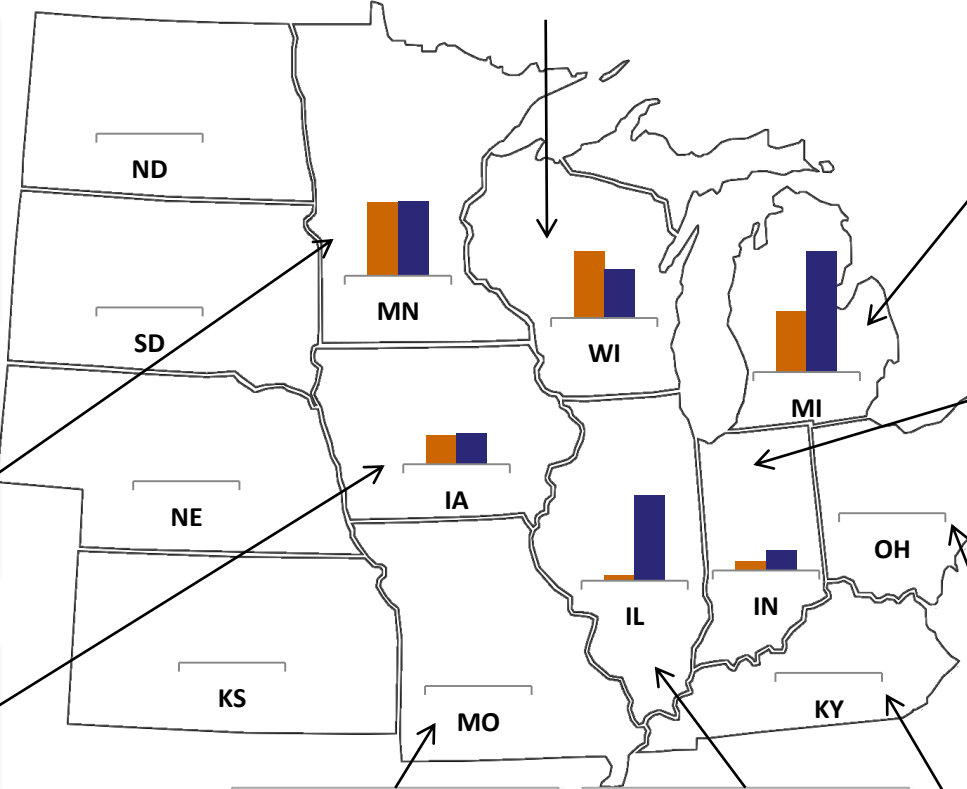
**2010**  
**2015**

**87 million therms**  
**136 million therms**

**North Dakota**  
**South Dakota**  
**Nebraska**  
**Kansas**  
*Voluntary gas efficiency only*

**Minnesota**  
 1.0% gas by 2010  
*(gas goal reduced by commission)*

**Iowa**  
 Set on a utility basis  
 0.85% gas current plans



**Michigan**  
 0.75% gas by 2012

**Indiana**  
*Overtaken 2014. Future legislation & funding uncertain.*

**Ohio**  
*Voluntary gas efficiency only*

**Missouri**  
*Voluntary gas efficiency only*

**Illinois**  
 1.5% gas by 2017

**Kentucky**  
*Voluntary gas efficiency only*

As of August 2015



# Indiana

2009:  
Administrative  
order creates  
Energizing  
Indiana

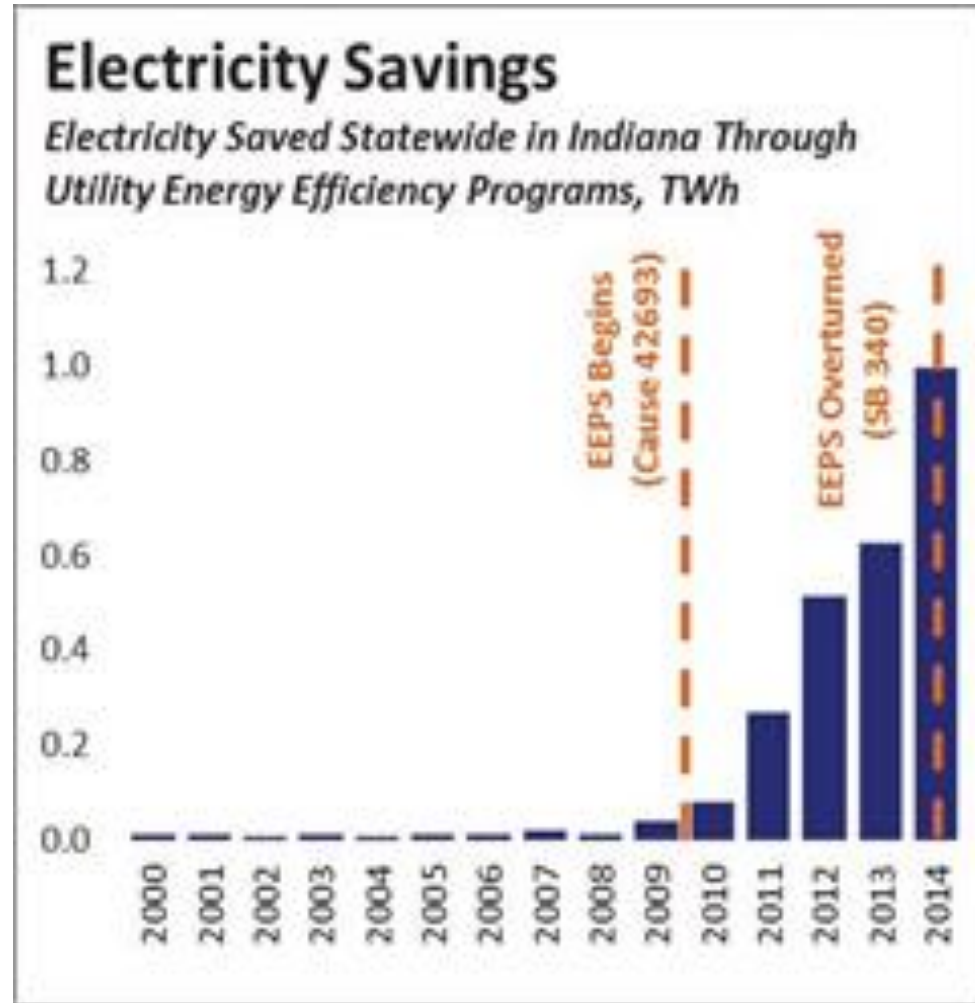
2012:  
Energizing  
Indiana  
Program  
Implemented

2014:  
Legislature  
repeals EERS.  
All investor  
owned utilities  
file DSM  
plans with IN  
Utility  
Regulatory  
Commission

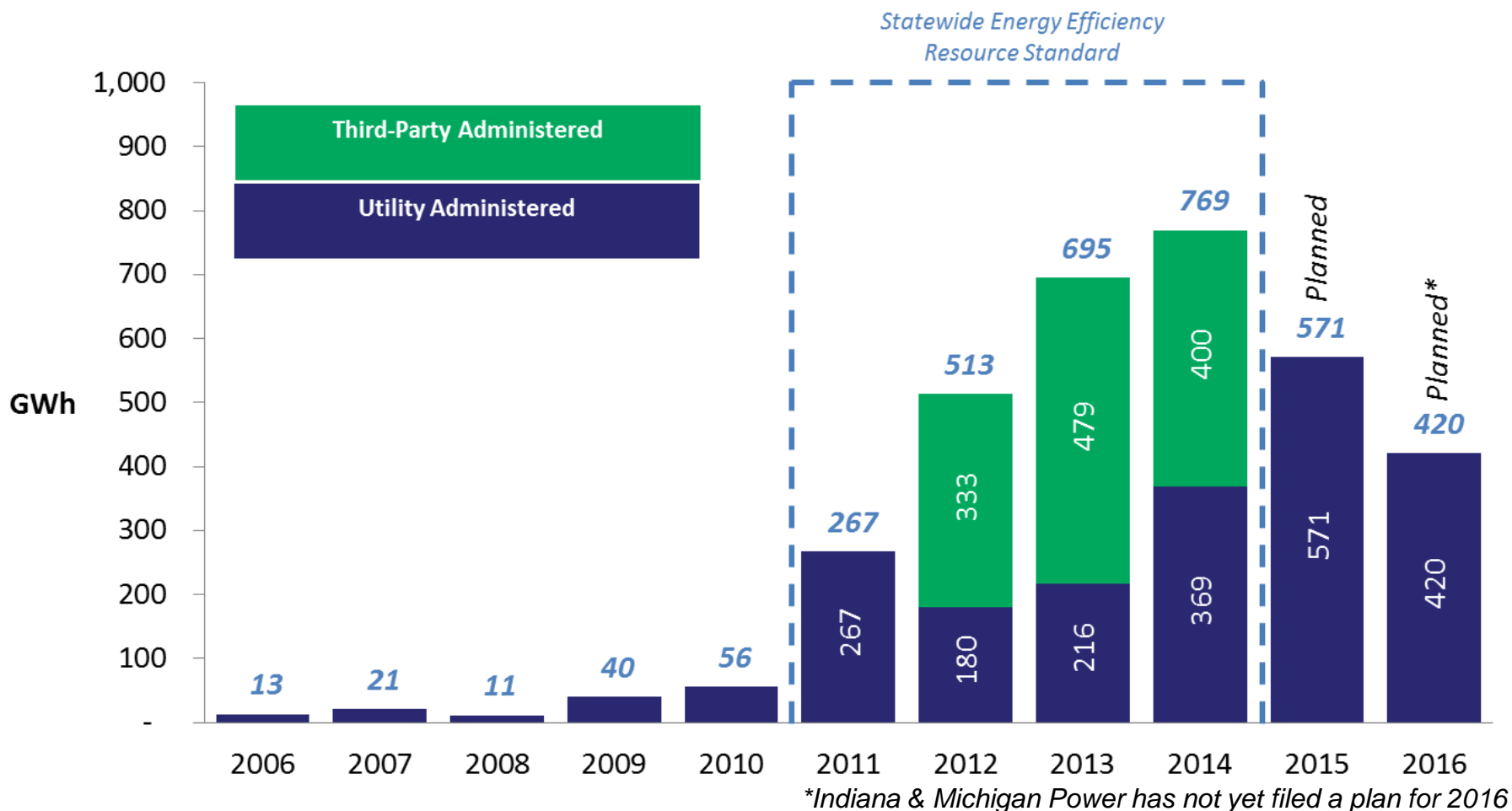
2015:  
DSM plan  
and IRP rule  
making  
process  
begins

# Energizing Indiana

- From 2012-2013, for every **\$1 spent** on the Energizing Indiana programs, residents and businesses reaped **\$3.02 in benefits**.
- Effective policy increased Indiana's electricity savings over 25-fold from 2009 levels, the year before electric energy efficiency was required under the EERS.



# Energy Savings Reduced in Indiana after the Repeal of their Energy Efficiency Resource Standard

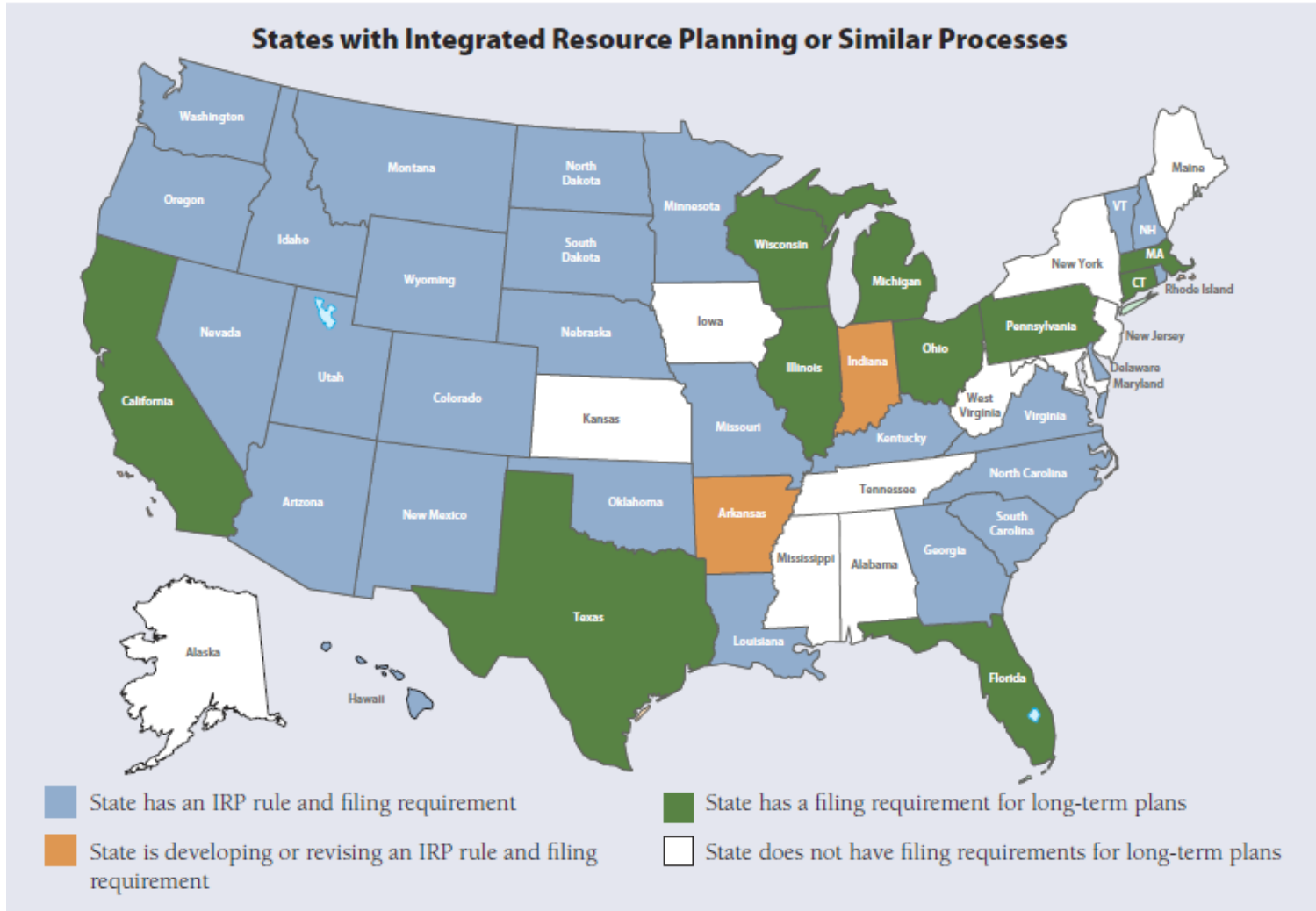


# Indiana Electric Efficiency Spending and Savings by Customer Class



Source: Utility Filings in IURC Causes 42693-S1, 43955-DSM 02, 44486, 44495, 44497, and 44501.

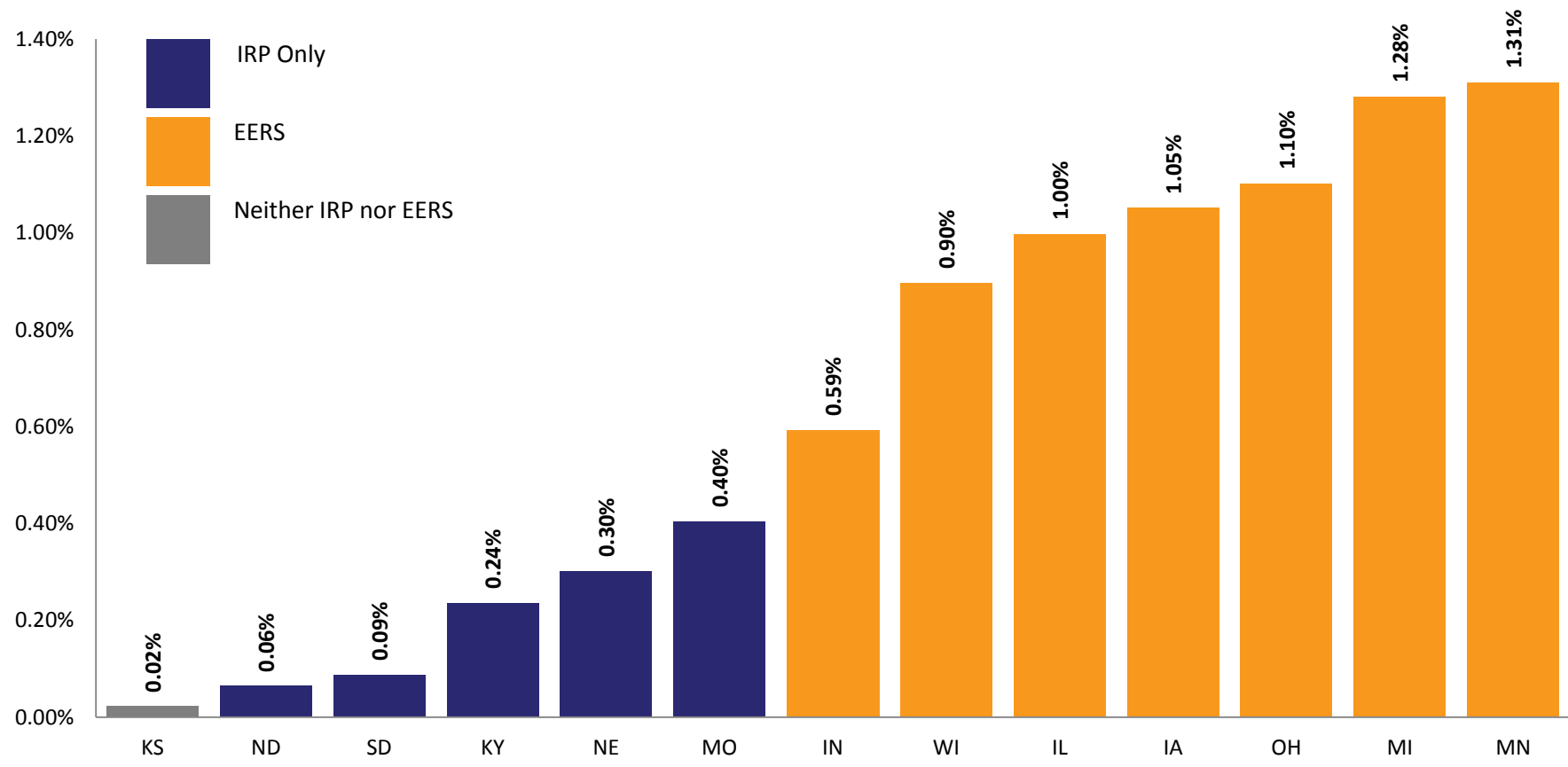
# What is an Integrated Resource Plan (IRP)?



Source: Bruce Biewald and Rachel Wilson, Regulatory Assistance Project (RAP), 2013.

# Energy Efficiency in Midwest States

*Saved electricity as percent of total retail electricity sales, 2013*

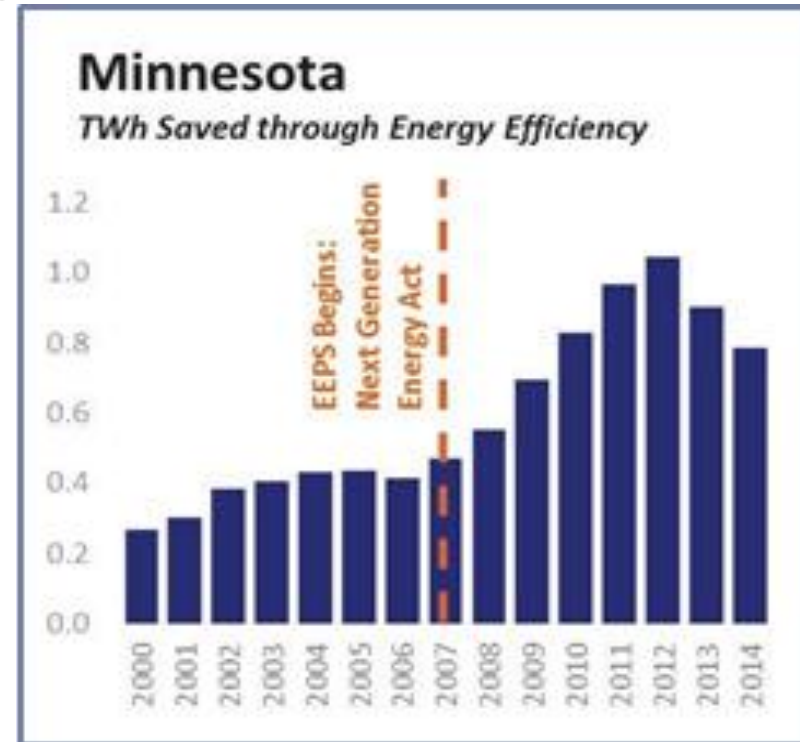


Sources: MEEA, 2015; EIA, 2015



# Minnesota

- Minnesota has adopted both an IRP model as well as a Conservation Improvement Plan standard plus other goals
- MN incorporates existing 1.5% energy efficiency standard goal as an input within each utility's IRP
- Electric savings more than doubled between 2007 and 2012





# IRP Best Practices: Lessons from Minnesota and Beyond

- Existing Methodology: if a state already uses resources such as a technical reference manual, utilities should use values reflected in the technical reference manual in their IRP inputs.
- Commission Authority: the state utility regulatory commission should have the authority to approve, reject, request more information, and modify utilities' IRPs.
- Energy Efficiency Resource Standards: incorporate existing or future energy efficiency resource standards as a load reduction input to IRP modeling.

# A good electric system IRP should include...

- ✓ Load forecast
- ✓ Reserves and reliability
- ✓ Demand side management
- ✓ Supply options
- ✓ Fuel prices
- ✓ Environmental costs and constraints
- ✓ Uncertainty
- ✓ Existing Resources
- ✓ Valuing and selecting plans
- ✓ Action plan
- ✓ Documentation
- ✓ Time frame

# IRP Challenge:

## Maximization of Energy Efficiency Savings

- In 2013, the 26 states with EERS policies in place, showed more than 3.5 times as much program spending (2.63% vs. 0.76%) and savings (1.11% vs. 0.30%) as the 24 states without an EERS policy, regardless of whether the state had an IRP policy.
- The states with an IRP or other long-term planning requirement that also had an EERS spent and saved over 3 times as much as states that had an IRP requirement but no EERS requirement (2.66% of revenues vs. 0.76%; and 1.16% of sales vs. 0.35%).
- For states without IRP process, those with EERS spent over 3 times as much and saved nearly five times as much (0.90% vs. 0.19%) as states with no IRP/planning requirement and no EERS.

# Conclusions

- EERS produce more cost-effective savings than an IRP
- IRP is a planning framework used to evaluate supply-side and demand-side resources
- IRP only as strong as the targets/standards incorporated
- If a state moves toward IRP, it should incorporate an EERS as a load reduction measure so the plan includes targets
- The good news – they can work together to achieve significant savings in a cost-effective, thoughtful way.

# Questions and Contact Information

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