



# Big Data, Bigger Questions

2017 ACEEE  
Energy Efficiency as a Resource



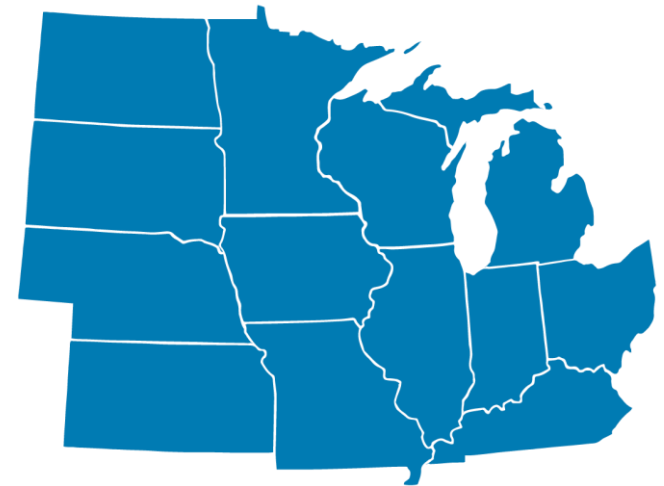
# About MEEA

## *The Trusted Source on Energy Efficiency*

We are a nonprofit membership organization with **160+ members**, including:

- Utilities
- Research institutions
- State and local governments
- Energy efficiency-related businesses

As the key resource and champion for energy efficiency in the Midwest, MEEA helps a diverse range of stakeholders understand and implement cost-effective energy efficiency strategies that provide economic and environmental benefits.



# Current Landscape

TRMs, Industrial Opt-Outs, and Air Quality

# Midwest TRMs

## *Statewide TRMs in Midwest States*



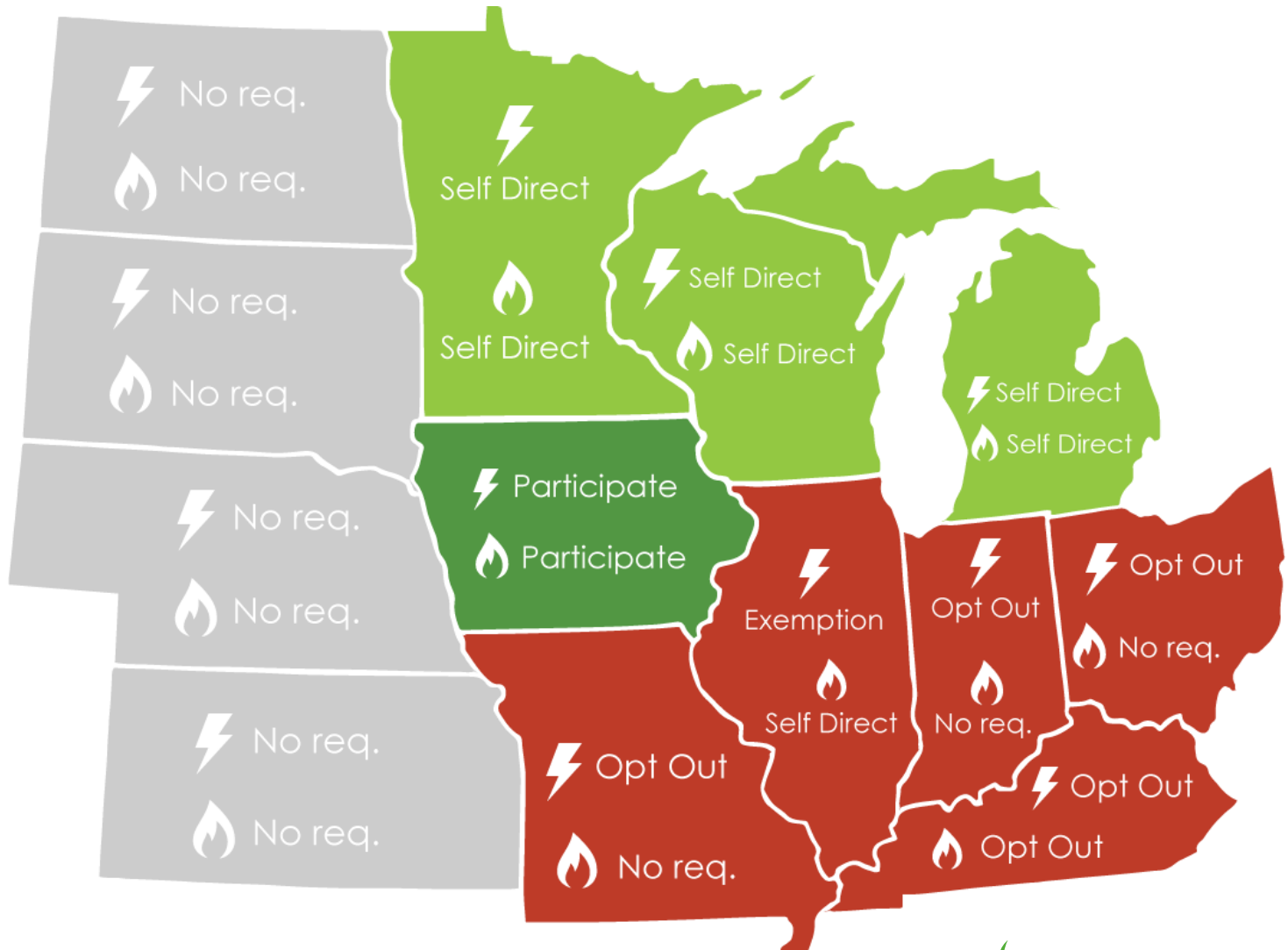
\*Outdated with no formal update process

# Missouri Statewide TRM

*“Once a TRM has been developed, it is vital that it is kept up to date, appended, and maintained in a timely and effective manner. Technology is constantly improving and markets are constantly changing. For a TRM to be considered a reliable document, it must keep pace with these changes or it will quickly become obsolete and the savings estimates may be perceived to be less reliable.”*



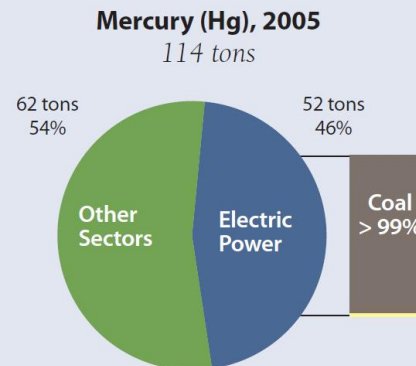
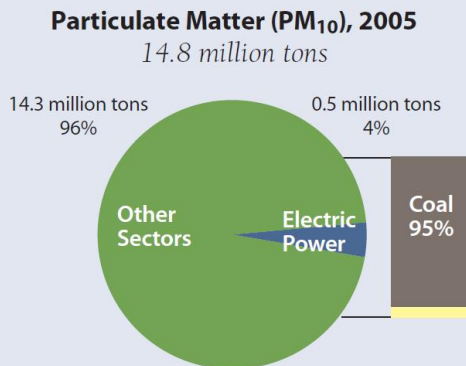
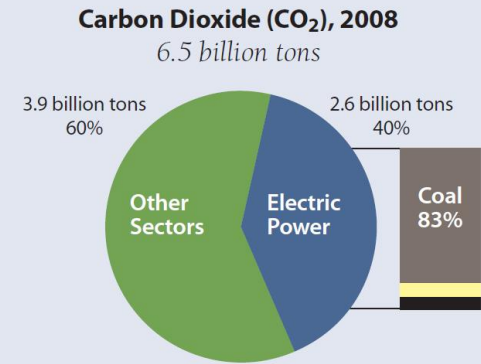
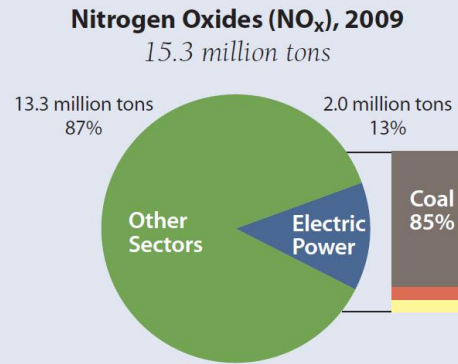
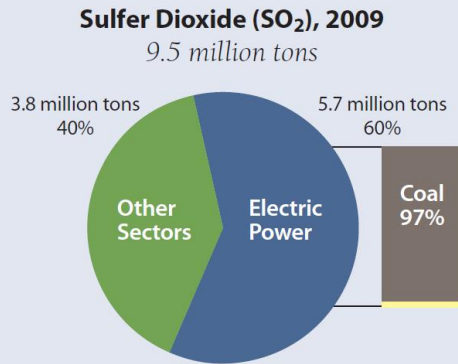
# Industrial Energy Efficiency Policies



# Air Quality

## EE for Emissions Reductions

### Electric Power Sector's Share of National Emissions<sup>1</sup>



**Coal-fired power plants:  
vast majority of power  
sector air emissions**

Source: Quantifying the Air Quality Impacts of Energy Efficiency Policies and Programs. Regulatory Assistance Project. August 2013.

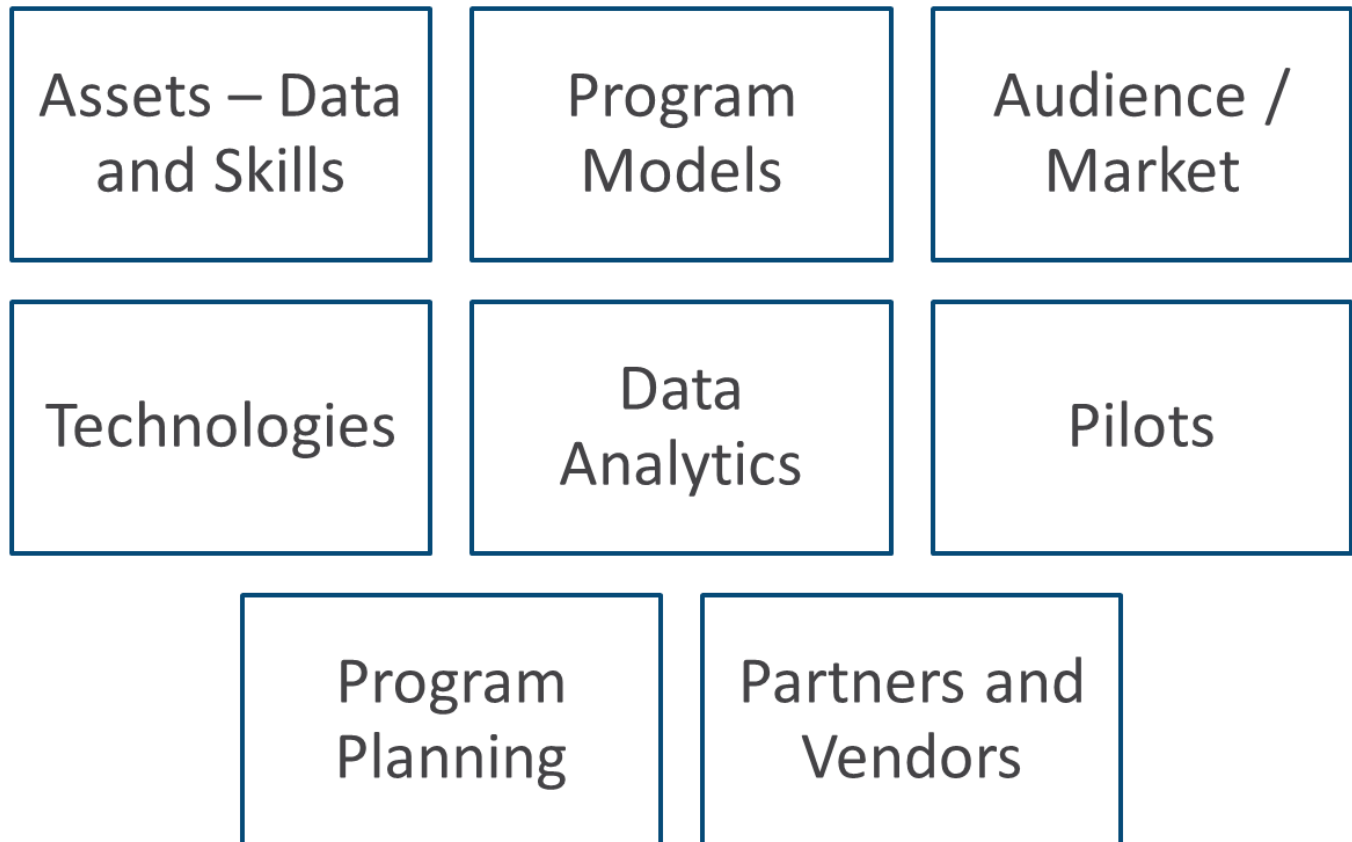
# Shifting Landscape

State Efforts to Drive Advanced M&V



# Missouri M&V Collaborative

## What is the EM&V 2.0 Roadmap?



Source: Vermont Energy Investment Corporation and Missouri Division of Energy.

- What are the current levels of distributed energy resources (energy efficiency, distributed generation, demand-response, etc.) in Missouri?
- Is any new behind-the-meter technology or hardware needed to accommodate or facilitate the development of distributed energy resources?
- Will any distribution system upgrades be required to accommodate or facilitate the development of distributed energy resources?

## *Future Energy Jobs Act*

- Future Energy Jobs Act  
(*Illinois Public Act 99-0906*)

*“When practicable, electric utilities shall **incorporate advanced metering infrastructure data into the planning, implementation, and evaluation** of energy efficiency measures and programs, subject to the data privacy and confidentiality protections of applicable law.”*

- ICC Policy Session

# Illinois NextGrid



- New Technology Deployment and Grid Integration
- Metering, Communications and Data
- Customer and Community Participation

Image Source:  
<https://nextgrid.illinois.gov/stream.html>



**Happy Samhain!**



Thank you!

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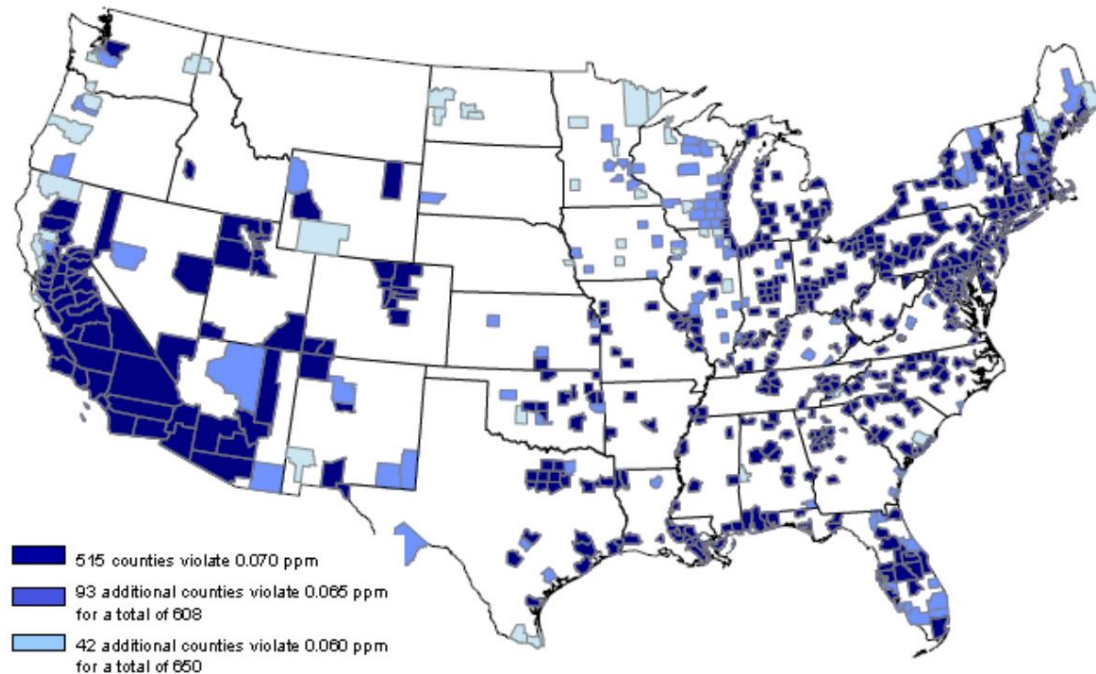
# Using Energy Efficiency in SIPs

## NAAQS Compliance

### Counties With Monitors Violating Primary 8-hour Ground-level Ozone Standards 0.060 - 0.070 parts per million

(Based on 2006 – 2008 Air Quality Data)

EPA will not designate areas as nonattainment on these data, but likely on 2008 – 2010 data which are expected to show improved air quality.

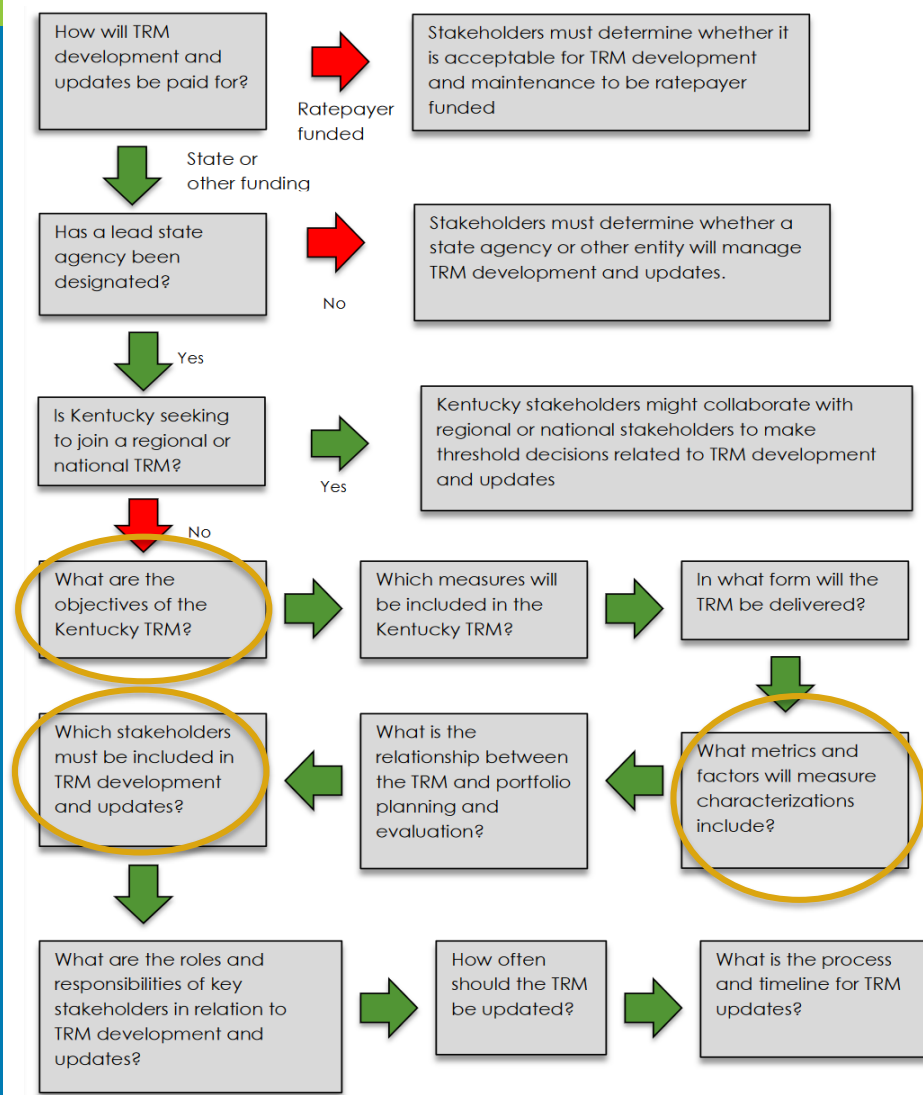


Notes:

1. No monitored counties outside the continental U.S. violate.
2. EPA is proposing to determine compliance with a revised primary ozone standard by rounding the 3-year average to three decimal places.

Source: Capturing the Emissions Reduction Benefits of Energy Efficiency. Regulatory Assistance Project. February 6, 2013.

# Kentucky TRM Roadmap



- Significant amount of the state in TVA territory
- EKPC has significant AMI rollout, other utilities do not
- Cost, cost, cost