



# Industrial Sector Concurrent Session

June 3, 2009

Boston, MA



# Agenda

- ▶ Program Overview
- ▶ Industrial Committee Updates
  - Key accomplishments
  - Near term priorities
  - Strategic opportunities
- ▶ Questions & Discussion
- ▶ Preparations for Industry Partner Meeting
  - September 30-Oct 1, 2009 in New Orleans

# CEE Industrial Program Committees

<u>Committee</u>	<u>Activity</u>	<u>FTE</u>
▶ Motors & Motor Systems	High	.55
▶ Motor Management	High	1.7
▶ Municipal Water-Wastewater	Medium	.70
▶ Industrial Program Planning	Medium	.70
• Energy Management		
▶ Dist. Transformers, other	Low	<u>.35</u>
		4.0

See *Industrial Program Committee Factsheet*

# CEE Industrial Team

Name	Title	Phone/Email	Work Area
Jess Burgess	Program Manager	617-337-9274 <a href="mailto:jburgess@cee1.org">jburgess@cee1.org</a>	Municipal Water-Wastewater, Dist. Transformers
Kellem Emanuele	Program Manager	617-337-9273 <a href="mailto:kemanuele@cee1.org">kemanuele@cee1.org</a>	Motors, Motor Systems, Motor Management
Ted Jones	Principal, Sector Lead	617-337-9276 <a href="mailto:tjones@cee1.org">tjones@cee1.org</a>	Industrial Program Planning, Energy Mgmt.
TBD	Program Manager	TBD	Industrial Program Planning, Boilers & Steam Systems, Coordination with DOE and EPA
Alison Nihart	Program Services	617-337-9272 <a href="mailto:anihart@cee1.org">anihart@cee1.org</a>	Support

# Cross-Team Efforts

## ▼ Commercial Team

- ENERGY STAR Benchmarking
  - Wastewater facilities and other industrial sectors
- Commercial Lighting
  - High Bay Applications

## ▼ Gas Team

- Commercial Boiler Initiative Development

## ▼ Evaluation Team

- Collection of NEMA Premium Motor Shipment Data
- Measuring impacts from industrial programs

# Motors and Motor Systems



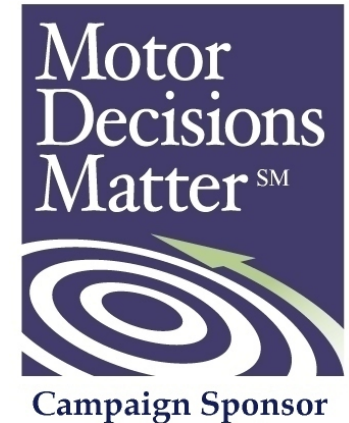
# M&MS: January – June 2009

- ▶ Continue above NEMA Premium exploration
  - “Product List” under review
- ▶ 2009 M&MS Program Summary
- ▶ NEMA Premium shipment data collection
- ▶ Identify program opportunities for drives
  - Prelim. profile: 42 members, 55 programs
  - Potential program components:
    - Messaging/education
    - Prescriptive and custom guidance for non-HVAC
    - Understand technical opportunities, limitations

# M&MS: June - December 2009

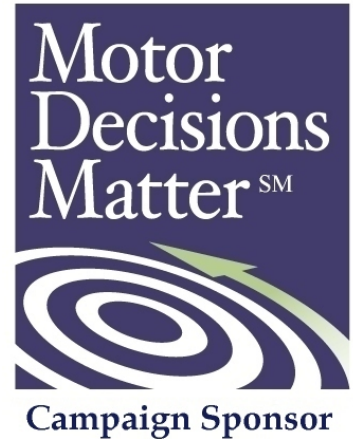
- ▶ Finalize above NP exploration
- ▶ Continue drives work
- ▶ Investigate other program options
  - Motor management/Motor upgrade
  - Best practice repair
- ▶ Update initiative resources
  - Motor Selection & Application Considerations brochure

# Motor Management & MDM: January – June 2009



- ▶ Go-to resource for motor management basics
  - MDM Tools Webcast: April 29, August
  - MDM Webcast for Alliant Energy: May 5
  - MDM Newsletters, trade press presence
  - Highlight important industrial resources: DOE, EPA
- ▶ Outreach & partnership development
  - MDM Wkshp in CA w/Energy Mgmt. Congress (EMC)
  - MDM Booth at EASA, EMC
  - NSTAR Technology Show

# Motor Management & MDM: June – December 2009



- ▶ Sponsors explore scope of Phase 4
  - Increase efficiency program uptake
  - Maintain current infrastructure and approach
  - Expand to motor system opportunities
- ▶ Understand external factors
  - Economic conditions
  - Legislative and regulatory environment
  - Market emphasis on “green”

# Ongoing Industrial Sector Issues

- ▶ Prepare NEMA Prem. messaging post EISA
  - New federal minimum stds are scheduled to take effect on Dec. 19, 2010
- ▶ Legislative developments
  - “Crusher Credit”
  - ARRA implementation/funding
  - Other
- ▶ Recession impacts on customer participation in efficiency programs

# Municipal Water-Wastewater



# Water & Wastewater 2009: Promote Facility Benchmarking

- ▶ January–December: Promote Energy Star Portfolio Manager benchmarking tool to raise awareness and increase support for efficiency projects among municipal managers and facility operators
- ▶ Next Steps:
  - Monitoring benchmarking efforts in the commercial sector, and seeking opportunities to apply these to the W/WW sector

# Water & Wastewater 2009: RFP/RFQ Guidance Effort

- ▶ January–October: Provide guidance to municipal managers and other relevant stakeholders in asking for the consideration of energy efficiency/renewable energy opportunities in the RFP/RFQ process
- ▶ Next Steps:
  - Seek feedback on draft RFP/RFQ Guidance language from the Water Environment Federation (WEF) and municipal purchasing managers
  - Prepare and present a paper on this topic at WEFTEC, 10/2009

# Water & Wastewater 2009: Exploration of Turbo Blower Technology

- ▶ May–December: Investigate the opportunity for CEE member action around emerging turbo blower technology, which may offer a significant sector-wide energy and cost savings opportunity
- ▶ Next Steps:
  - Evaluate the scope of this opportunity and barriers to action at Breakout Session this afternoon and Industry Partners Meeting in September

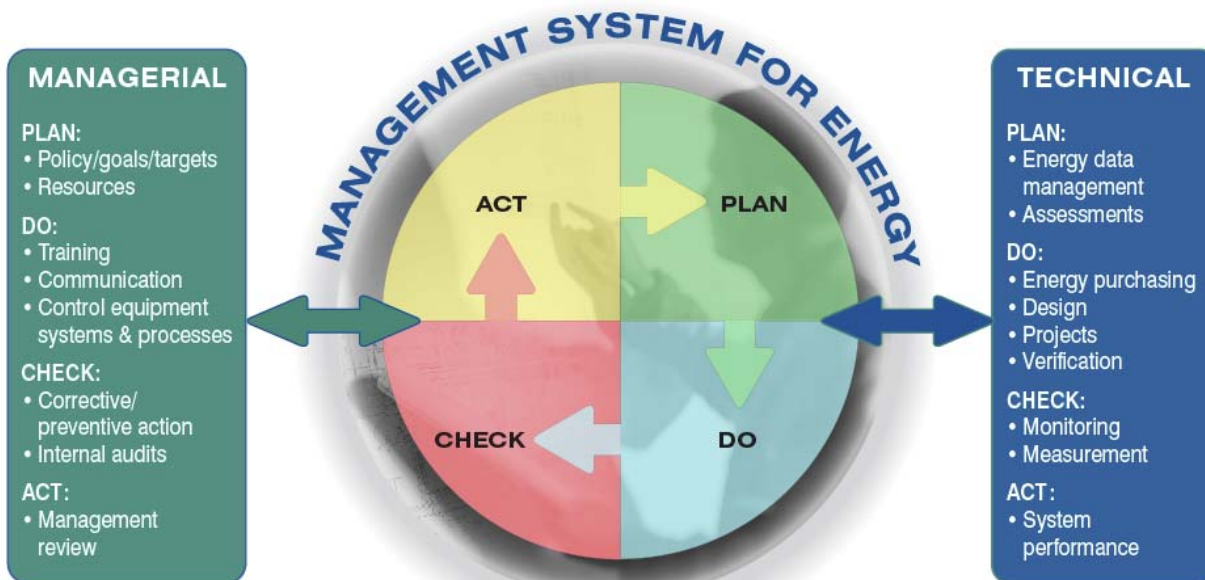
# Stimulus (ARRA) Implications

- ▶ Significant ARRA funds are dedicated to the Water & Wastewater sector (\$6 billion)
  - 20% of this funding must be dedicated to green infrastructure, energy efficiency, or environmentally innovative projects
- ▶ Energy Star benchmarking & RFP/RFQ efforts will help members to take advantage funding opportunities

# Industrial Program Planning



**Save**  
**ENERGY**  
**Now**



# Industrial Program Planning

## January – June 2009

- ▶ Provided member input to ASME on energy assessment standards
- ▶ Kept members informed of national and international activities related to the development of an energy management standard (e.g., ISO 50001)
  - Providing a forum to discuss the potential implications of an energy management standard on efficiency programs
  - Identifying opportunities for members to provide input as appropriate
  - Highlighting member experiences, identifying specific energy management program components, and cataloging supporting resources

# Industrial Program Planning

## January – June 2009 (cont.)

- ▶ Initiated process to coordinate DOE Save Energy Now industrial assessments with member programs
- ▶ Continued to track and report on energy management activities.
- ▶ Committee identified additional areas for exploration
  - Food processing
  - Foundries
  - Large refrigeration systems
  - Heat recovery
  - Steam and boiler optimization

# Industrial Program Planning

## June-December 2009

### ▶ Energy Management

- Continue to monitor development of ISO 50001
- Catalog energy management resources and place them in a central location (extranet)
- Draft program guidance document

### ▶ Research and prioritize areas identified for further exploration

- Document the results into a framework that can be updated on an ongoing basis

# Industrial Program Planning June-December 2009 (cont.)

- ▶ Continue to coordinate federal industrial programs with members
  - Identify additional opportunities for DOE coordination and input
    - Save Energy Now
    - Industrial Assessment Centers (IACs)
    - Demonstration of under-utilized technologies
  - Identify similar coordination process for ENERGY STAR to support national accounts

# What's Ahead?

## *Ask the Experts*

### Ask the Experts

- Lighting Programs for Industrial Customers

### “All Things” Industrial

- Compressed Air Challenge
- DOE and EPA Industrial Programs; Webinars, etc.
- Water Environment Federation

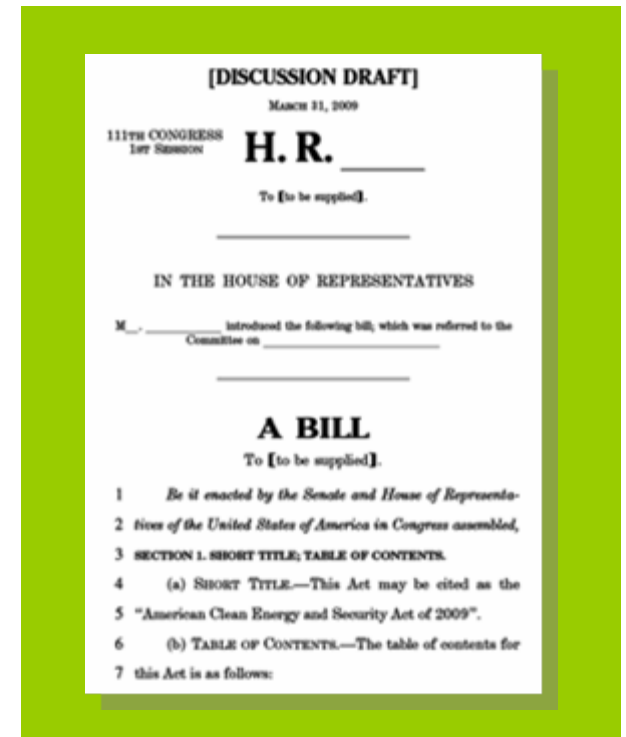
### Introduction of CEE Extranet – Web 2.0

# Monitor Legislation Relevant to Industrial Programs

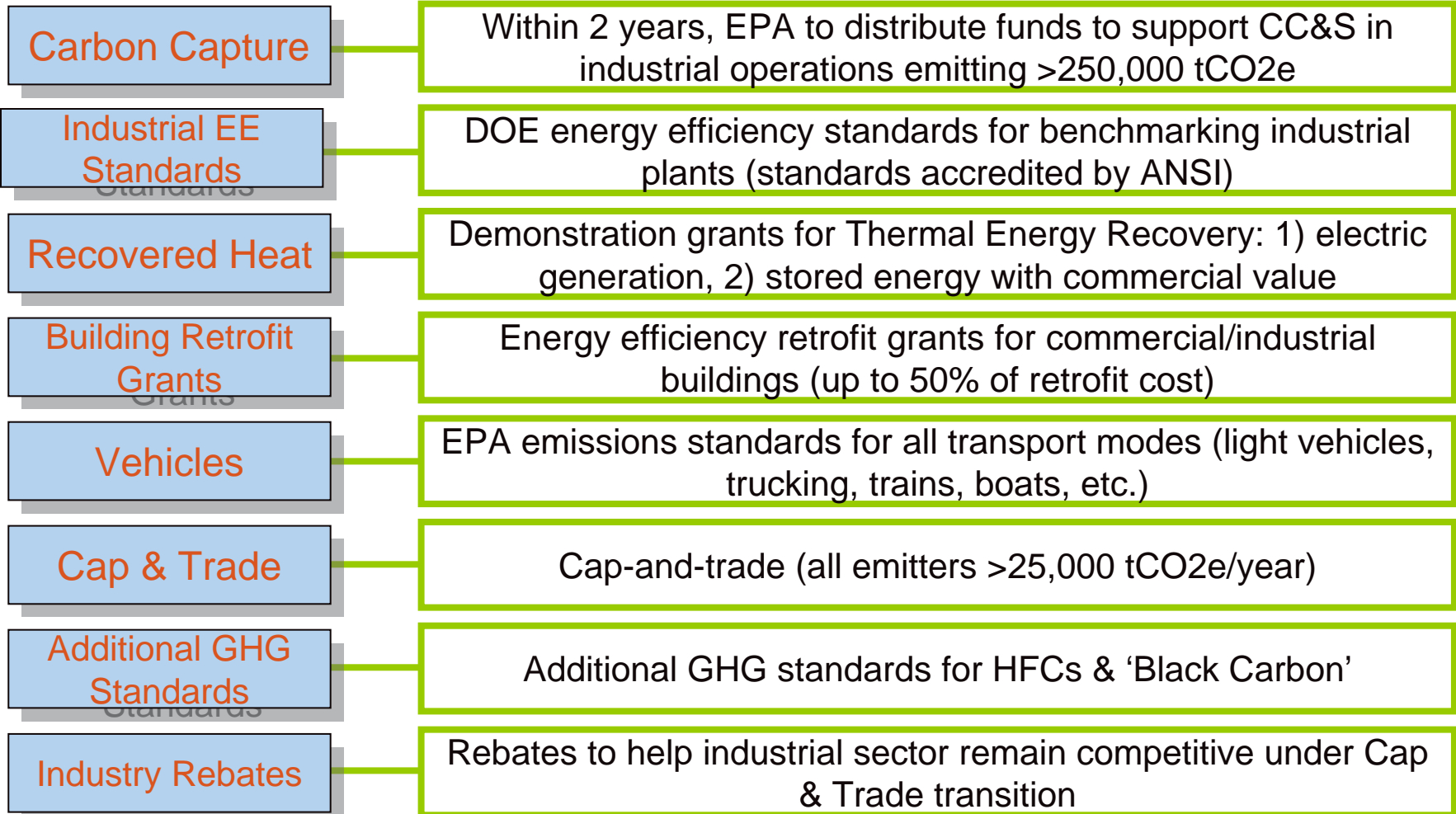
## ▶ ARRA: Stimulus funding for energy efficiency improvements in major industrial sectors

- \$256 Million Investment for industry
  - Combined Heat and Power, District Energy Systems, Waste Energy Recovery Systems, and Efficient Industrial Equipment (\$156 Million)
  - Improved Energy Efficiency for Information and Communication Technology , Advanced Materials

## ▶ ACES: The American Clean Energy & Security Act of 2009



# Industry Related Provisions in ACES



# Industry Related Provisions in ACES

Carbon Capture

Within 2 years, EPA to distribute funds to support CC&S in industrial operations emitting >250,000 tCO<sub>2</sub>e

Industrial EE Standards

DOE energy efficiency standards for benchmarking industrial plants (standards accredited by ANSI)

Recovered Heat

Demonstration grants for Thermal Energy Recovery: 1) electric generation, 2) stored energy with commercial value

Building Retrofit Grants

Energy efficiency retrofit grants for commercial/industrial buildings (up to 50% of retrofit cost)

Vehicles

EPA emissions standards for all transport modes (light vehicles, trucking, trains, boats, etc.)

Cap & Trade

Cap-and-trade (all emitters >25,000 tCO<sub>2</sub>e/year)

Additional GHG Standards

Additional GHG standards for HFCs & 'Black Carbon'

Industry Rebates

Rebates to help industrial sector remain competitive under Cap & Trade transition

# CEE 6<sup>th</sup> Annual Industry Partners Meeting

September 30 & October 1, 2009  
New Orleans, LA

Planned Industry Invitees  
Include:

Motors, Variable Speed Drives,  
High Speed Blowers, Controls  
and More!

