



# CEE Commercial Sector Overview

June 3, 2009

Boston, MA

[www.cee1.org](http://www.cee1.org)



# Session Agenda

- ▶ Introductions
- ▶ Commercial Initiatives Update
- ▶ All Things Commercial
- ▶ CEE Roundtables
- ▶ 6<sup>th</sup> Annual Industry Partners Meeting

# CEE Commercial Team

Name	Title	Phone/Email	Work Area
Kate Baldacci	Program Manager	617-337-9267 <a href="mailto:kbaldacci@cee1.org">kbaldacci@cee1.org</a>	Lighting
Kim Erickson	Program Manager	617-337-9280 <a href="mailto:kerickson@cee1.org">kerickson@cee1.org</a>	Kitchens Whole Buildings
Jason Erwin	Senior Program Manager, Sector Lead	617-337-9269 <a href="mailto:jerwin@cee1.org">jerwin@cee1.org</a>	Data Centers Whole Buildings
Afroz Khan	Senior Program Manager	617-337-9266 <a href="mailto:akhan@cee1.org">akhan@cee1.org</a>	HVAC
Casey Erisman Alison Nihart	Program Services	617-337-9264 <a href="mailto:cerisman@cee1.org">cerisman@cee1.org</a> 617-337-9272 <a href="mailto:anihart@cee1.org">anihart@cee1.org</a>	Support (i.e. QPLs, Research)

# CEE Commercial Initiatives: Kitchens Background

**“Commercial Kitchen”** efficiency concept  
(technical, marketing)

- Creating greater customer value through water & electric and gas savings
- Promoting efficient commercial food service equipment “as a package”
- Developing targeted program delivery strategies for specific market segments

# CEE Commercial Initiatives: Kitchens Update

## CEE or ENERGY STAR Specifications



## CEE Advanced Specifications



## Specifications Under CEE Development



## Market- Oriented Activities

- ▶ Program delivery strategies by market segment
- ▶ Information sharing about opportunities with chain accounts
- ▶ Industry-oriented newsletter

# CEE Commercial Initiatives: Lighting Background

- ▶ High Performance Commercial Lighting Systems Initiative approved in Nov.04
- ▶ Initial effort addressed High Performance 32W T8 Lighting Systems (New Construction)
- ▶ Broadened scope to include specification and application guidance for reduced wattage (25W & 28W) T8 products (Retrofit)
- ▶ Qualifying product lists updated monthly

# CEE Commercial Initiatives: Lighting Update

- ▶ In 2007, an MOU was signed between NEMA and CEE that establishes CEE's specification as the basis for the NEMA Premium ballast program
  - Ten manufacturers enrolled
  - Now listing dimmable ballasts
- ▶ Solid-State Lighting – Inform members of relevant technical information and program design.



# CEE Commercial Initiatives: HVAC Initiative Background

- ▶ Goal is to encourage the proper installation and widespread use of high-efficiency air conditioners and heat pumps in commercial buildings
  - Unitary AC and HP Specification (approved in 1993)
  - HVAC Quality Installation Guidelines (March 2001)
  - ACCA/ANSI QI Standard (May 2007)

# CEE Commercial Initiatives: HVAC Update

- ▶ **Current Unitary AC/HP Specification**
  - New industry performance metrics
  - Plan to revise specification in January 2010
- ▶ **Advanced Rooftop Unit Concept**
  - Feature-set to address e-savings, persistence and maintenance
  - Next steps – AHRI, manufacturer feedback; Program design
- ▶ **Quality Installation, ANSI QI Standard**
  - Comments to ACCA, larger commercial HVAC systems
  - Committee to discuss program integration
- ▶ **New Systems; Technologies**
  - Variable Refrigerant Flow technology
  - Monitoring EPRI work

# CEE Commercial Initiatives: Data Centers Background

- ▶ Initiative, Committee established in June 2007
- ▶ Primary objectives include:
  - Facilitating our industry's collective understanding of market players, industry motivations
  - Support common definitions and market understanding
  - Identifying recommended program strategies that increase data center efficiency beyond that of the industry itself

# CEE Commercial Initiatives: Data Centers Update

- ▶ Consensus-based metrics, definitions, specification development
  - Servers: ENERGY STAR completed Tier 1 server specification (May); Committee review in progress
  - Other End Uses: ENERGY STAR announced data storage spec development; UPS on horizon
  - Benchmarking: EPA developing (2010); Metrics are DCiE; PUE
- ▶ Program development, strategies
  - Committee developed initial data center program model (framework)
  - Ongoing questions about EM&V, market advancement
  - Refine framework, program needs, engage with DOE, EPA and industry

# CEE Commercial Initiatives: Whole Buildings Background

- ▶ Exploratory opportunity
- ▶ Goal: To advance a whole-building program framework, infrastructure to encourage and enable whole-building commercial energy-efficiency programs
- ▶ Early committee efforts
  - Definition of an energy efficient building; Program framework (model)
  - <http://www.cee1.org/com/bldgs/bldgs-main.php3>

# CEE Commercial Initiatives: Whole Buildings Update

- ▶ Diverse program approaches
  - <http://www.cee1.org/files/WBProgSumm2008.xls>
- ▶ Increased prominence of whole building energy benchmarking
  - Key enabling strategy for whole-building performance programs
  - Work closely with ENERGY STAR
- ▶ Whole Building Roundtables (discuss in a minute)

# All Things Commercial Update

- ▶ Defined key “reporters” for bi-nationally relevant topics across all Initiatives
- ▶ Program administrator optic for all topics, timely updates for program planning and consideration
- ▶ Reporters provided updates on committee calls regarding their specific topic areas

# CEE WB Roundtables

## ◀ Who is it for?

- CEE members who administer commercial or institutional building programs

## ◀ What's It About?

- Sharing with and learning from each other
- Topics member driven

## ◀ Sign up online

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

September 30 & October 1, 2009  
New Orleans, LA

Planned Industry Invitees  
Include:

Data Centers/Servers, HVAC,  
Lighting, and More!

