

Exploring New Opportunities in Commercial HVAC

Afroz Khan, CEE Senior Program Manager
Thursday July 13, 2008
Boston, MA



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Agenda items for today

- Background
 - Where we started
 - Where we have come
- Current Activities
 - Residential & Small Commercial HVAC Committee
 - Natural Gas Committee
- Next Steps
 - Ask the Experts
 - Technology Assessment

High Efficiency Commercial Air Conditioning Initiative (HECAC).

- HECAC Initiative launched in 1993 to encourage the proper installation and widespread use of high-efficiency air conditioners and heat pumps in commercial buildings.
- Today, 46 CEE Members are promoting CEE Unitary AC and HP specification levels.

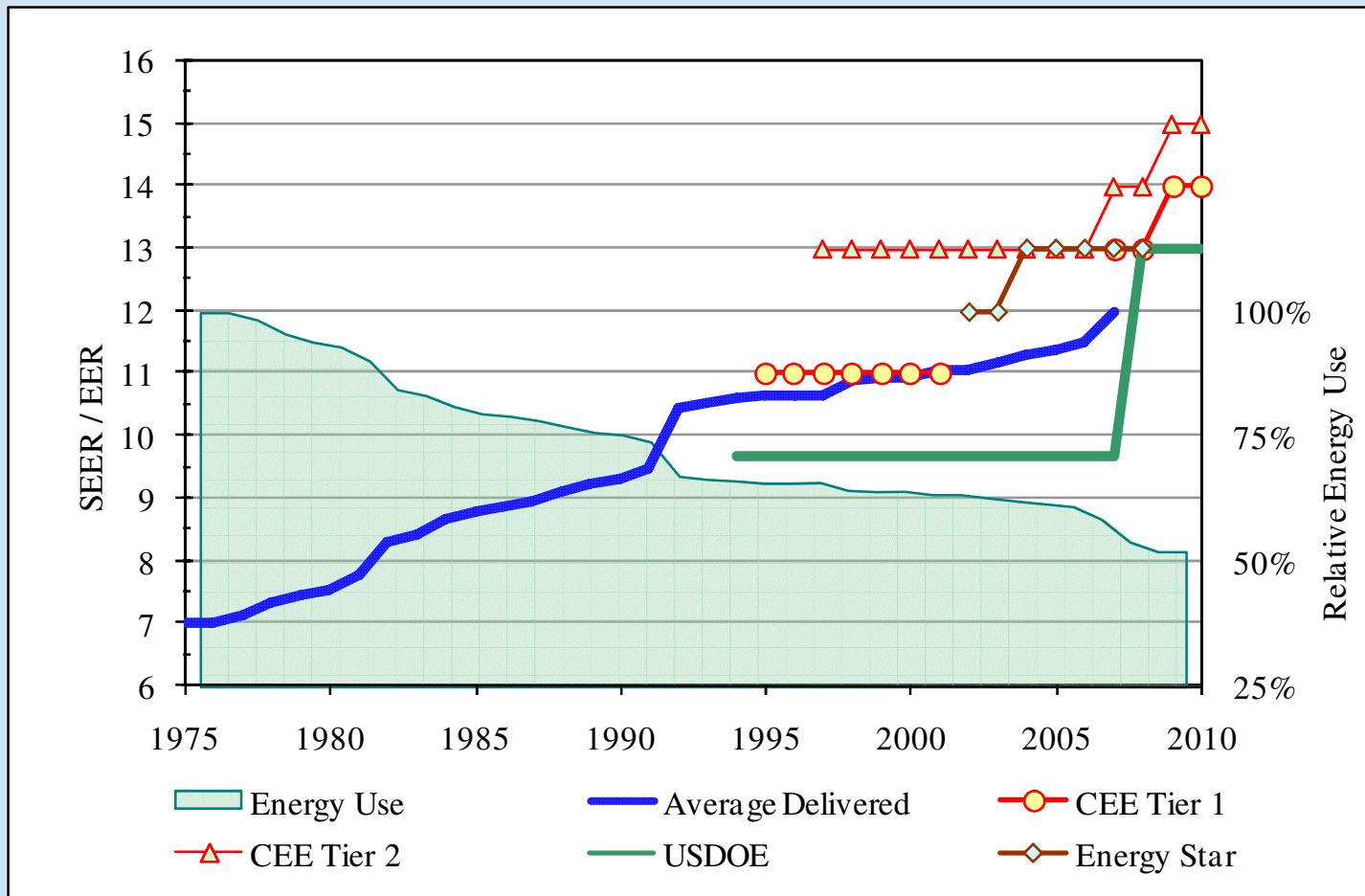


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Unitary AC and HP Specification Update

- As of June 16, 2008 Tier 1 will be eliminated since federal minimum for small commercial will be 13 SEER, 7.7 HSPF (same as residential).
- Tier 2 (14 SEER) and 3 (15 SEER) will be renamed to Tier 1 and 2.

CEE Unitary AC and HP tiers have evolved since Initiative launch.



Small Commercial versus Large Commercial

- Small Commercial ($\leq 65,000$ Btu/h)
 - Since 2007, addressed in Residential HVAC Committee (industry supported)
- Large Commercial ($>65,000$ Btu/h)
 - Large unitary equipment category
 - In-field performance, advanced diagnostics

An Industry-recognized QI Specification



QI Standard completed

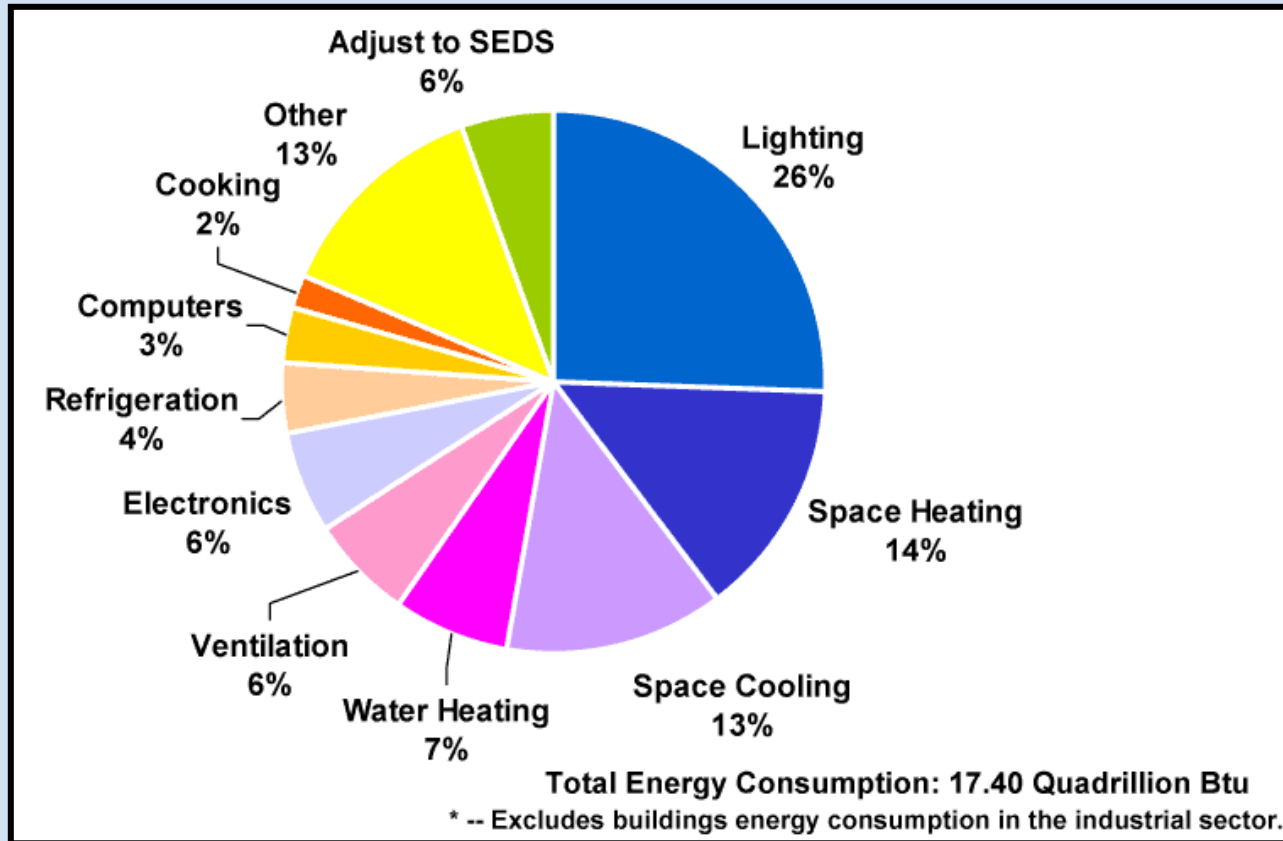
- *requirements*
- *acceptable procedures*
- *acceptable documentation*

ANSI recognition in March
2007



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Significant savings opportunities in heating, ventilation and cooling.



Source: 2007 EERE Buildings Energy

Coordination Opportunities with Natural Gas Committee

Addressing the “H” in HVAC

- Commercial Boilers
 - Breakout Session today from 1:30 to 3:00pm

Other potential areas...

- High Efficiency Gas-Fired Roof Top Units

CEE Ask the Experts - Commercial HVAC Webinar

Ask the Experts Webinar Understanding Commercial HVAC Program Opportunities

June 18, 2008 from 2:00-3:30 EDT

Facilitated by Afroz Khan, Commercial Senior Program Manager, CEE

The Experts

Dan
Morehouse
Eugene Water
and Electric
Board

Reid Hart
Portland
Energy
Conservation,
Inc.

Amy
Patenaude and
Dan Gaherty
Efficiency
Vermont

What is this Webinar About?

This webinar will educate participants on proven opportunities in commercial heating, ventilation, and air conditioning (HVAC). We'll start with an introduction of the commercial HVAC market including CEE efforts in defining unitary air conditioning and heat pump performance specifications as well as the current state of federal standards related to this equipment. Then our experts will deliver overviews of their respective programs to share their lessons learned from years of experience in the field. Foundational topics such as defining the savings opportunities and market potential, key program planning and design options, program delivery approaches, and program results will also be covered.

What is Ask the Experts?

This event is part of the *Ask the Experts* series of free workshops presented in webinar format to help new or prospective efficiency program administrators tackle energy efficiency program issues in depth. The format is both informative and interactive, so be sure to bring your questions.

Who Should Attend?

Commercial program planners and commercial HVAC program administrators who have three or fewer years of experience will learn of proven opportunities in commercial HVAC. The



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Member input required to identify next steps and direction.

July/Aug: Survey of membership to identify priorities.

Aug/Sept: Evaluation of energy savings potential for a list of technologies.

Oct/Nov: Communication with industry on identifying new opportunities.

Dec/Jan: Launching new efforts for Commercial HVAC.

**For more information or to
get involved please contact:**

Afroz Khan

akhan@cee1.org

617-589-3949 x208



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