

CONSORTIUM FOR ENERGY EFFICIENCY, INC.

Expanding Markets for Super-Efficient Technologiessm

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CEE's commercial HVAC guidelines define efficient installation Proper sizing, installation can save up to 50 percent of energy consumption

Buying efficient HVAC equipment is only part of the equation for saving energy. According to a landmark document developed by the Consortium for Energy Efficiency, HVAC system efficiency can be increased up to 50 percent through proper installation, sizing and maintenance.

In March, CEE rolled out *Guidelines for Energy-Efficient Commercial Unitary HVAC Systems*, a 42-page guide to energy-efficient installation practices for commercial unitary HVAC systems. This document is available as a free download from the CEE web site (www.ceeforMT.org, look for Commercial A/C and Heat Pumps).

These guidelines – part of CEE's High-Efficiency Commercial Air Conditioning and Heat Pumps Initiative (HECAC) – are applicable to commercial systems up to 30 tons, including replacement equipment and new construction.

HISTORY OF THE PROJECT

In response to research indicating that proper sizing and installation of HVAC systems could significantly improve operating efficiency, CEE contracted with the Davis Energy Group to develop the guidelines in December 1999. **Pacific Gas & Electric, Sacramento Municipal Utility District, the New York State Energy Research and Development Authority (NYSERDA), National Grid USA and NSTAR** co-funded development of the guidelines.

The document was developed with feedback from HVAC manufacturers, contractors, trade associations and energy-efficiency organizations.

HOW THE GUIDELINES CAN BE USED

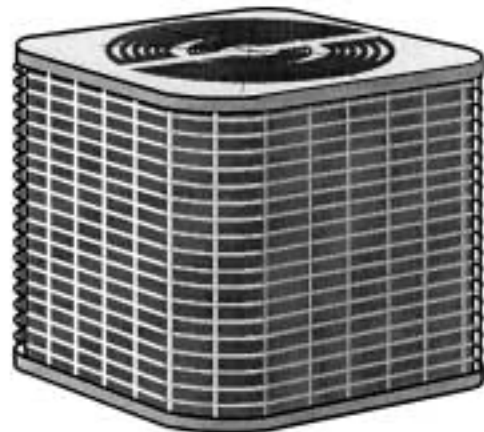
These guidelines provide a resource for CEE members and others to develop their own products and program components to encourage proper installation of commercial HVAC equipment. In light of the recent demand shortages, the guidelines will also serve as a valuable resource to help reduce peak load.

"These guidelines augment CEE's existing equipment specifications in the High-Efficiency Commercial Air Conditioning and Heat Pump Initiative," **said CEE Commercial Program Manager Denise Rouleau**, who coordinated the project. "The guidelines are a unique compilation of research and recommended 'best practices' for proper installation. We expect this will be a useful reference document for energy-efficient program designers when defining key elements of proper installation and their associated benefits."

Energy-efficient installation can translate into major savings

Commercial HVAC systems can increase efficiency up to 50 percent through proper installation, equipment selection and maintenance.

Proper equipment sizing and optimum use of economizers represent the biggest savings opportunities.



Energy-efficient installation practices also provide substantial non-energy benefits, such as greater comfort, lower maintenance cost and longer equipment life.

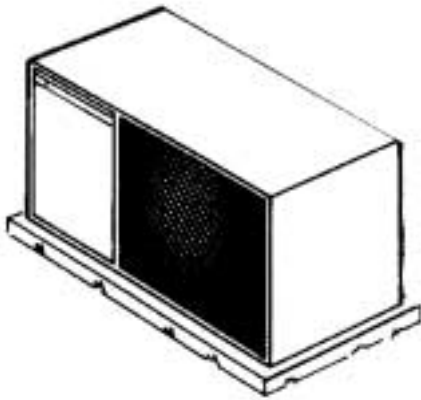
Areas addressed by CEE's commercial HVAC guidelines

ELEMENT	POTENTIAL ENERGY SAVINGS
Load calculation (sizing)	Up to 50 percent
Unit selection	10-20 percent compared to federal minimum standards; up to 40 percent when compared to older units
Ductwork design	Variable
System installation	Reducing air supply leakage by 20 percent can achieve a 60-70 percent increase in fan power
Controls	Economizers can save 15-80 percent of cooling energy
Commissioning	Up to 20 percent
Operation and maintenance	11-42 percent

What's included in CEE's commercial HVAC guidelines?

This new CEE document details the benefits and best practices/methodology for efficient equipment installation.

Specific areas covered:

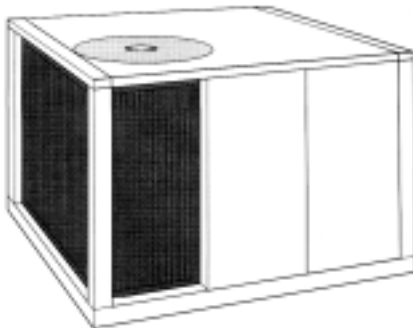


Air conditioners and heat pumps

- Load calculation
- Equipment selection
- Installation
- Economizers
- Ventilation

Air distribution

- Zoning
- Duct systems
- Duct installation



Controls

HVAC commissioning

- New and existing systems

CEE's *Guidelines for Energy-Efficient Commercial Unitary HVAC Systems* and a corresponding White Paper are available on the CEE web site:

www.CEEforMT.org

(look for Commercial A/C and Heat Pumps)

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