



# Residential Windows

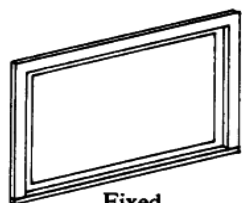
Margie Lynch  
Senior Program Manager  
January 27, 2011  
Costa Mesa, CA



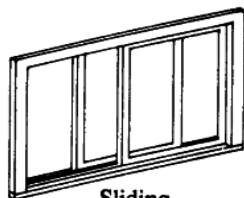
# Background

▼ In 2010, the Whole House Committee began exploring savings potential and program opportunities in residential windows

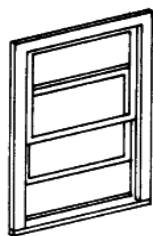
- Interest and engagement from industry is strong
- Program administrators are looking for cost effective savings
- Efficiency programs still need more information
- Federal efforts provide additional resources and support



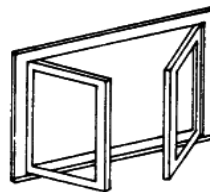
Fixed



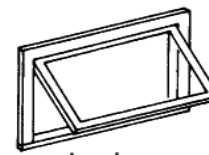
Sliding



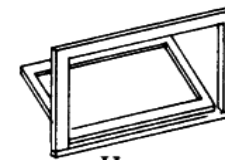
Double or single-hung



Casement



Awning

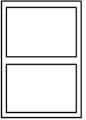


Hopper

# DOE Program



## High Performance R-5 Windows & Low-E Storm Windows Volume Purchase Program

<b>Savings Estimates</b>	
	<b>Savings Per 3' X 5' Custom Upgrade Window</b>
	
Compared to:	Double pane, non-metal frame (eg wood or vinyl)
Annual Energy Cost Savings	<b>\$ 9</b>
Electric Savings	<b>55</b> kWh/year
Gas Savings	<b>-</b> therms/year
Lifetime Energy Cost Savings (assumes 20 year window life)	<b>\$ 185</b>
Discounted* Lifetime Energy Savings (assumes 20 year window life)	<b>\$ 138</b>
Lifetime CO2 Savings (lbs)	<b>58</b>

- CEE collaborating with the DOE team in Phase I and II of the VP Program
- A savings estimator tool tailored for energy efficiency programs helps assess cost effectiveness of windows programs
- [www.windowsvolumepurchase.org](http://www.windowsvolumepurchase.org)

# 2011 Committee Plans

- ▼ Develop windows product overviews
  - Highly insulating and low-e storm windows
  - Window films, coverings and attachments
  - Practices: QI/air sealing/repair and rehab/design guidance
  - Seeking to engage industry in document development
  
- ▼ Facilitate pilots for highly insulating windows
  - Explore advanced specification
  
- ▼ Prepare consensus comments on new ENERGY STAR specification



# Contact

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# Reaching Out to Regulators About Program Evaluation

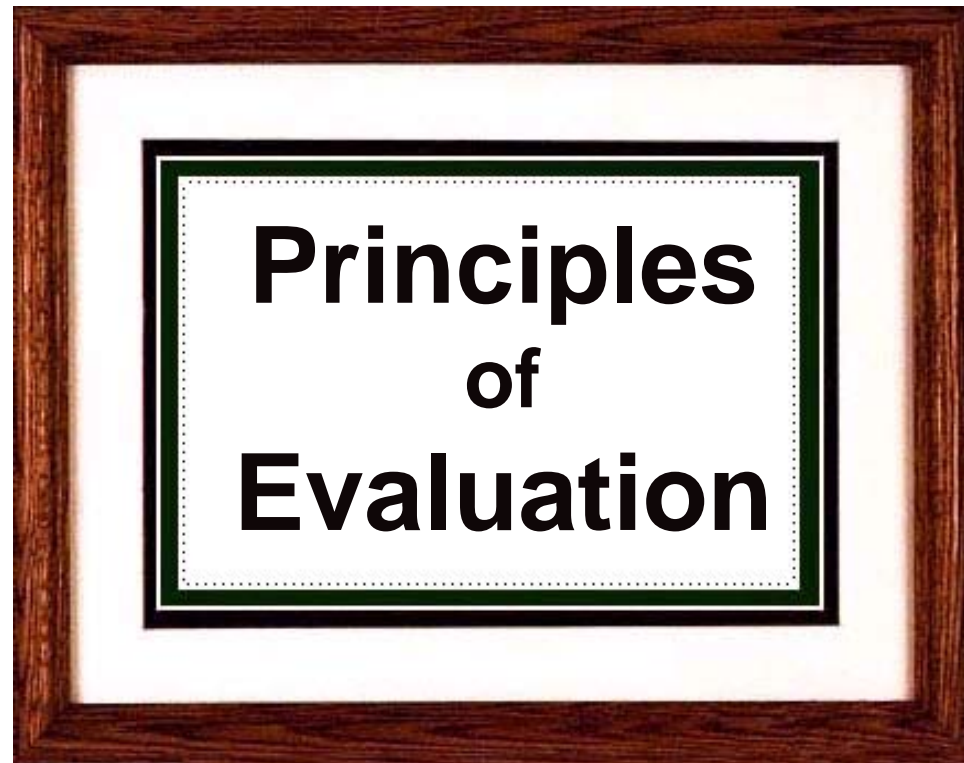
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# Overhaul of Evaluation Webinar for Regulators

- ▼ Spring 2011
  - Institute of Public Utilities

- ▼ Looking for
  - Consensus on Principles
  - Stories and examples

- ▼ Topic of Evaluation Committee Breakout
  - Today at 3:30





# A Guidance Specification for Commercial Boiler Systems

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# Commercial Boiler Systems Initiative Development

- ▶ Exploring a potential initiative for commercial boiler systems that focuses on optimization
- ▶ Challenges to date:
  - Boiler efficiency is dependent on system design
  - Inconsistencies in rating boiler efficiency
  - Current test procedures do not address system efficiency

Pursuing a three pronged approach to address these challenges

# Proposed Approach

- ▶ Equipment and Functionality Specification
  - Specifies efficiency levels
  - **PLUS:** Identifies key boiler functionality that will help optimize the boiler regardless of application
- ▶ Quality Installation with a focus on **Rightsizing**
- ▶ Quality Operations and Maintenance

Incorporating each of these into a program will help to advance optimized boiler systems

- ▶ Next Step: Send a Draft to Industry for Comment



# Update on the Coalition For ENERGY STAR<sup>®</sup> Water Heaters

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- ▶ Placed articles in Contractor, Phc News and Plumbing and Mechanical and more reaching over 200 thousand subscribers and 20 million unique web visitors
- ▶ Developed Public Service Announcement, e-blast articles, and more tools for CEE member use
- ▶ Provide a venue for building relationships between CEE members and major water heater manufacturers





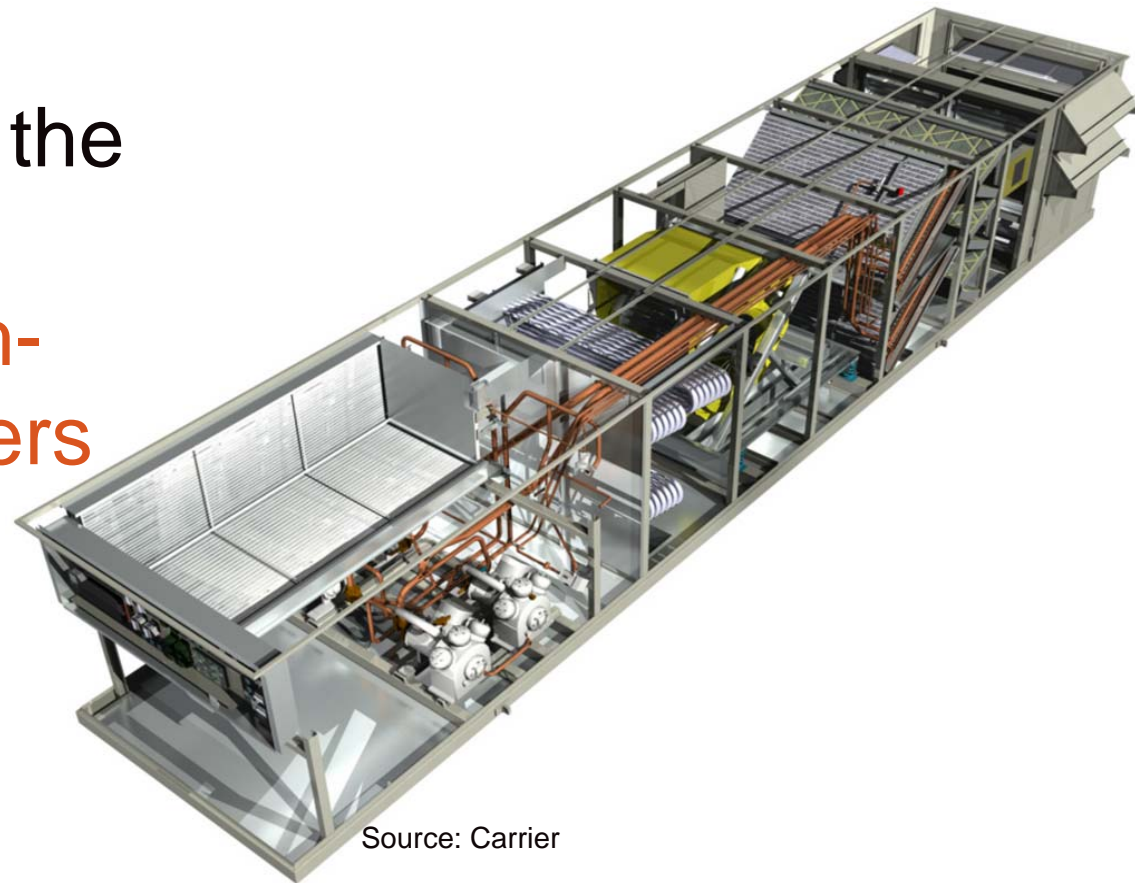
# CEE Commercial Unitary AC and HP Specification revision

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# CEE High Efficiency Commercial Air-Conditioning (HECAC) Initiative

- ▶ Launched in 1993 with specifications identifying SEER/EER/IPLV for Unitary AC and HP equipment.
- ▶ Goal is to encourage the proper installation and widespread use of high-efficiency air conditioners and heat pumps in commercial buildings.



Source: Carrier

# Commercial Unitary AC and HP Specification revision

## ▼ Phase 1

- New part-load metric, IEER
- Increase consistency with industry standards
- CEE spec valued by industry

## ▼ Phase 2

- Consider new technologies
  - VRF
- Consider Advanced Tier to capture system efficiencies
  - Advanced Roof Top Unit (ARTU) concept



# C&I Distribution Transformers

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# C&I Distribution Transformers

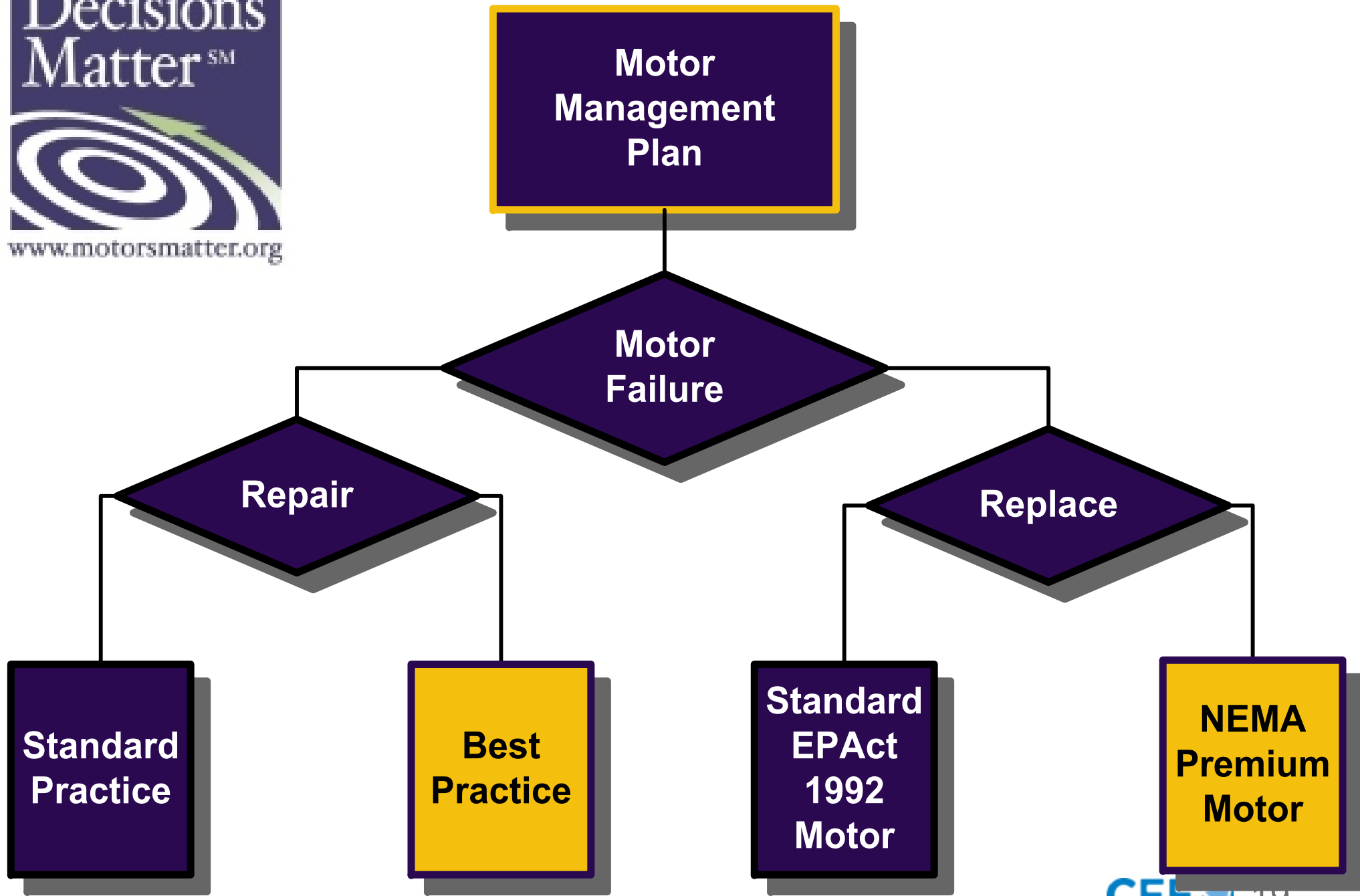
- ▶ Equipment common in commercial, institutional buildings, industrial facilities
- ▶ 30-year equipment life
  - Savings: incremental, constant, reliable
- ▶ Program fit: new construction, prescriptive
- ▶ *Draft spec available, seeking member comments by February 4*



# Motor Decisions Matter<sup>SM</sup> Campaign

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# Motor Management Plan

