



WHPA HVAC ENERGY SAVINGS AND DEER COMMITTEE MEETING

August 2, 2016

AGENDA

1. Roll Call
2. Prior Minutes Approval
3. Action Item Updates
4. Work Product Development
Matrices
5. Committee Next Steps
6. Adjournment by 12:00pm
PDT

For Telephone access:

1. Dial 1-641-715-3670
2. Enter Participant Access
Code: **797856#**

Announce yourself and
organization when
speaking.

Mute when not speaking.

- Use *6 to take on/off
mute thru FC.com if
needed



ROLL CALL of VOTING ELIGIBLE MEMBERS

WHPA Staff (5 min)

Members (Voting Eligible)				
AHRI (Air-Conditioning, Heating, and Refrigeration Institute)	Garrett	McGuire	HVAC Manufacturer Association	
Aire Rite AC & Refrigeration	Don	Langston	Contractor (Nonresidential)	
AirTest Technologies Inc.	Mike	Schell	HVAC Manufacturer	
ASHRAE	Richard (Rick)	Danks	Engineering Society	(Chair)
Bay Controls	Stephen	Parry	Controls (Manufacturer or Distributor)	
Bender Dean Engineering	Mark	Bender	Energy Efficiency Program Consultant	
Big Ass Solutions	Don	Dodd	HVAC Manufacturer	
BuildingMetrics Inc.	Pete	Jacobs	Energy Efficiency Program Consultant	
Carrier Corporation	Richard (Dick)	Lord	HVAC Manufacturer	
CLEAResult either Michael or Phil	Michael	Blazey	Energy Efficiency Program Consultant	
CLEAResult either Michael or Phil	Phil	Jordan	Energy Efficiency Program Consultant	
Daikin Applied	Henry (Skip)	Ernst	HVAC Manufacturer	
Daikin U.S. Corporation	Charlie	McCrudden	HVAC Manufacturer	
El Camino College	Tim	Muckey	Educator, Trainer	
Energy Solutions	Jim	Hanna	Energy Efficiency Program Consultant	
FDSI (Field Diagnostic Systems Inc.)	Dale	Rossi	Third Party Quality Assurance Provider	
Galawish Consulting Associates	Elsia	Galawish	Energy Efficiency Program Consultant	
Goodman Manufacturing	Aniruddh	Roy	HVAC Manufacturer	
Irvine Company	Tom	Boyer	Owner/Facility/Property Mgmt Co.	
MSDC (Mechanical Systems Design & Consulting)	Jeff	Henning	Educator, Trainer	
NCI (National Comfort Institute)	Scott	Johnson	Educator, Trainer	
PG&E (Pacific Gas and Electric Company)	Swapna	Nigalye	California IOU	
Purdue University	Andy (Andrew)	Hjortland	Research Organization	
SCE (Southern California Edison) either Ryan or Bach	Ryan	Cho	California IOU	
SCE (Southern California Edison) either Ryan or Bach	Bach	Tsan	California IOU	
SMUD (Sacramento Municipal Utility District) Bruce or Ravi	Bruce	Baccei	Public Owned Utility	
SMUD (Sacramento Municipal Utility District) Bruce or Ravi	Ravi	Patel	Public Owned Utility	
UC Davis EEC (Energy Efficiency Center)	Kristin	Heinemeier	Research Organization	
Williams Comfort	Ruth Ann	Davis	HVAC Manufacturer	

Quorum = 13



WESTERN HVAC
PERFORMANCE
ALLIANCE

APPROVAL of PRIOR MEETING MINUTES

Chair (2 min)

- ▶ Request for motion and second to approve the June 21, 2016 meeting notes
 - Comments/Discussion
 - Vote to approve the motion

- ▶ Request for motion and second to approve the July 19, 2016 meeting notes
 - Comments/Discussion
 - Vote to approve the motion

- ▶ WHPA Staff to post approved minutes to WHPA HVAC Energy Savings & DEER Committee webpage.



ACTION ITEM UPDATES

Chair – (10 min)

- ▶ Ideas for Baseline Seminar – *Pete Jacobs* (*BuildingMetrics*)
 - Proposed TOPICS:
 - Summary of AB 802
 - Summary of CPUC Staff Whitepaper on Existing Conditions Baseline
 - Summary of recent Proposed Decision by ALJ Julie Fitch regarding the Practical Implementation of AB 802.
 - TIMELINE
 - During designed ES&DEER Committee meeting slot?
 - Other?



ACTION ITEM UPDATES

Chair – (10 min)

- ▶ DEER related Cost Effectiveness Information Gained from Kevin Madison – *Chair (Rick Danks, ASHRAE)*
- ▶ Reminder: Draft DEER 2017/18 Resolution Stakeholder Comments due August 8, 2016 – *Jim Hanna (Energy Solutions)*
 - NOTE: Complete documentation and supporting material on the updated assumptions and methods as well as all of the updated values are available at DEEResources.com on the DEER2017/DEER2018 page under DEER Versions on the website Main Menu.



WORK PRODUCT DEVELOPMENT MATRICES

Chair – (40 min)

- ▶ Quick Overview of Other Committee Resources – *WHPA Staff*
 - [WHPA Compliance Committee HVAC Compliance Definition Matrix \(Draft\)](#)
 - [1.5.2 WHPA EBEE Charrette Output “Review B.E.E.S. for Cost-Effectiveness”](#)
 - [EBEE Action Plan Sub-Strategy 1.5.2 Worksheet Final as of 7-12-2016](#)
 - [CEC EBEE Action Plan Strategies \(Chapter 3\)](#)



WORK PRODUCT DEVELOPMENT MATRICES

Chair – (40 min)

- ▶ Review of Draft Matrices Format – *Chair*
 - Consumer Value
 - Cost Effectiveness
- ▶ Thoughts on Characteristics of Cost Effectiveness
 - Suggestions for Matrix





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Consumer Value Matrix ES & DEER Committee

WHPA ES&DEER Committee Consumer Segment Valuation Matrix							
Consumer Segment	Small Business	Small Commercial	Retail	Office Bldg	Institutional Non-profit	Institutional for Profit	Residential
Perceived Value							
Reduced Costs							
Avoid non-compliance Penalties							
Conservation Incentives							
Reliable Service							





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Cost Effectiveness Matrix ES & DEER Committee

WHPA ES&DEER Committee Cost Effectiveness Definition Matrix Based on Consumer Valuation								
Consumer Segment		Small Business	Small Commercial	Retail	Office Bldg	Institutional Non-profit	Institutional for Profit	Residential
Valuation Tools								
Simple Payback								
Internal Rate of Return								
Return on Investment								
Return on Net Assets								



COMMITTEE NEXT STEPS

Chair – (3 min)

- ▶ Chair attending August 3, 2016 WHPA Cross-Committee Meeting for EBEE Action Plan Collaboration (regarding Sub-Strategy 1.5.2)

- ▶ Next ES&DEER Meeting:
 - Tuesday, August 23, 2016 from 11:00am – 12:00pm PDT
 - Agenda Topics

- ▶ Adjournment by 12:00pm PDT



For More Information, Contact ...

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