



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 | |
| CLEARResult either Michael or Phil | Michael | Blazey | Energy Efficiency Program Consultant | |
| CLEARResult 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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