



**WHPA Existing Buildings Energy Efficiency (EBEE) Action Plan Committee
Teleconference Summary Minutes - DRAFT
Thursday, March 17, 2016 (Scheduled for 9:00 – 10:00am PDT)**

Call to Order

WHPA Staff (Wendy Worrell) called the meeting to order at 9:00 am PDT.

Roll Call

The following 26 participants attended the meeting.

P = Present at meeting				
A = Absent from meeting; if proxy has been assigned it will be noted below.				
The EWG is the voting panel of the Existing Buildings Energy Efficiency Action Planning Committee.				
CEC Advisors (Non-Voting)				
CEC (California Energy Commission)	David	Ismailyan+	Government (Other than CPUC)	P
CEC (California Energy Commission)	Tom	Trimberger+	Government (Other than CPUC)	P (Presenter)
Exploratory Working Group Members (Voting)				
AirTest Technologies Inc.	Mike	Schell	HVAC Manufacturer	P
Air-Tro	Robert	Helbing	Contractor (Nonresidential)	P
CalCERTS, Inc.	Susan	Davison	Certifying Body	P
CalCERTS, Inc. (Primary Voting Rights Designee)	Barbara	Hernesman	Certifying Body	P (Co-Chair)
Charles Segerstrom Consultant	Charles	Segerstrom	Industry Consultants	P
County of Sonoma – PACE	Liz	Yager	Government (Other than CPUC)	P
Honeywell ECC	Daniel	Jones	Controls (Manufacturer or Distributor)	P
Indio Cooling & Heating Supply	Tim	Mann	Distributor	P
Joule Assets	Dennis J	Quinn	Other Stakeholder	P
Selby Energy, Inc.	Brian	Selby	Educator, Trainer	P
Tre'Laine Associates	Pepper	Hunziker	Energy Efficiency Program Consultant	P
Valley Contractors Exchange	Kate	Leyden	Contractor Association	P
EBEE "Community" Committee Members (Non-Voting)				
AHRI (Air-Conditioning, Heating, and Refrigeration Institute)	Garrett	McGuire	HVAC Manufacturer Association	P
Big Ass Solutions	Don	Dodd	HVAC Manufacturer	P
HVACRedu.net	Chris	Compton	Educator, Trainer	P
Irvine Valley College (Saddleback)	Len	Pettis	Educator, Trainer	P
NCI (National Comfort Institute)	Benjamin	Lipscomb	Educator, Trainer	P
NCI (National Comfort Institute)	Justin	Bright	Educator, Trainer	P (first 15 min)
SCE (Southern California Edison Company)	Matthew	Horwitz	California IOU	P (last 22 min)
SDG&E (San Diego Gas & Electric)	Jeremy	Reefe	California IOU	P
SoCalGas (Southern California Gas Company)	Joe	Shiau	California IOU	P
Willdan Lighting & Electric	Nick	Bernoski	Energy Efficiency Program Consultant	P
WHPA Staff				
CEES-Advisors	Carlos	Santamaria	Energy Efficiency Program Consultant	P (SME)
InfoPlast	Wendy	Worrell	Other Stakeholder	P (Host/Scribe)

** Organization is Not a Member of the WHPA; + Individual is NOT Registered with the WHPA; ^(P) after last name = Member/Registrant is Pending Approval from the WHPA Executive Committee

WHPA Staff reminded Exploratory Working Group (EWG) panel members to review the March 3, 2016 draft meeting notes and to notify WHPA Staff of any needed edits by Friday (March 18, 2016) prior to web posting.

AGENDA

WHPA Staff email distributed the following agenda to the WHPA EBEE Committee roster prior to the meeting.

- 1) **Roll Call** – WHPA Staff (5 min)
- 2) **Co-Chairs' Opening Comments** – Chairs (10 min)
 - a) Review: Co-Chair / CEC Meeting
- 3) **CEC – 1.5.1 WPII** – Tom Trimberger (25 min)
 - a) Format / Content Overview Presentation (15 min)
 - b) Committee Feedback (10 min)
- 4) **Next Steps** – Chairs (15 min)
 - a) Verification of Strategies
 - b) CEC Matrix of Strategies



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- c) Research
- 5) **Wrap up and Adjournment** – WHPA Staff - (5 min)
 - a) Next Meeting Dates (from 9am – 10am Pacific Time):
 - i) April 7, 2016 (EWG Only)
 - ii) April 21, 2016 (EBEE Committee)
 - b) Recurring Future Meetings (from 9am – 10am Pacific Time)
 - i) 1st Thursday of Each Month (EWG Only)
 - ii) 3rd Thursday of Each Month (EBEE Committee)
 - c) Adjournment by 10:00am PDT

Co-Chair's Opening Comments

Co-Chair Barbara Hernesman (CalCERTS) reported that the Co-Chairs met with the CEC reps (Tom Trimberger, David Ismailyan, Martha Brook) and have a good idea of where to go with the EBEE Action Plan Strategies and activities at this point. The CEC staff and Co-Chairs have agreed to meet at least once more in the next few weeks to ensure they are set on the Committee's priorities for Work Product II: Pathways to Implementation.

Work Product II

WHPA Staff email distributed the following reference documents to the WHPA EBEE Committee roster prior to the meeting.

1. 1.5.1 Brainstorm Start Rev (from Tom Trimberger, CEC)
2. [WHPA EBEE-EWG Work Product II Draft Worksheet 3-16-16v2](#)
 - a. [WP11-2016 CEC Input \(CURRENT\) Tab](#) includes the above brainstorming information from Tom Trimberger (CEC)
 - b. WP11-2016 thru 3-3-16 (HOLD) Tab includes updates from the March 3rd EWG meeting

OVERVIEW

Tom Trimberger with CEC provided an overview of the format and content of the WP II-2016 CEC Input tab in the working document (reference doc #2 above) using the CEC's "brain dump" for how the CEC is looking at CEC EBEE Action Plan Sub-Strategy 1.5.1 as the first discussion example.

Tom Trimberger (CEC) noted that the prior Work Product II spreadsheet (the WP11-2016 thru 3-3-16 tab) was getting rather large. The Co-Chairs/CEC meeting looked at the Committee's previously completed prioritization exercise to determine the most time critical Strategies for focus. Sub-Strategies 1.5.1, 1.5.2, 1.5.5, and 3.3.1 are the first priorities with 1.5.3 another strong possibility. CEC Staff looked at 1.5.1 to provide initial information as an example. The CEC is looking to build work that will be used for the 2019 Standards that will be in effect in 2020.

Tom Trimberger (CEC) clarified that the "Identify Problems" column is for research.

COMMITTEE FEEDBACK

There was discussion about the focus of the developing work product.

- Tom Trimberger (CEC) clarified for Mike Schell (AirTest Technologies) that the Building Energy Efficiency Standards are written for new buildings but also apply to alterations and additions to existing buildings.
- Co-Chair Barbara Hernesman (CalCERTS) clarified that the main focus for existing buildings is the Energy Efficiency Action plan. She asked how to deal with identification of differences from 2016 to 2019 and communications related to that.
- Brian Selby (Selby Energy) reported that they have a worksheet of the highlights, plus training that includes integrated information. They have a lot for what is being updated.
- Co-Chair Barbara Hernesman (CalCERTS) suggested that when the CEC thinks of 2019 Standards and a pathway for education or another application, they focus on the "communication dump".

There was discussion about the focus on codes in relation to HVAC contractors and existing buildings.



WHPA Existing Buildings Energy Efficiency (EBEE) Action Plan Committee
Teleconference Summary Minutes - DRAFT
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- Bob Helbing (Air-Tro) noted that HVAC contractors don't use the Standards believing that the mechanical engineers, etc. are handling it. He did not see how it would have impact on how HVAC contractors do work in the in the field.
- Brian Selby (Selby Energy) replied that there is information that needs to get out for changing how installations are done since there are critical steps for residential in the Standards.
- Bob Helbing (Air-Tro) noted that a change requiring ducts in unconditioned space would be for new construction and not for existing buildings.
- Tom Trimberger (CEC) clarified that the purview of the group is existing buildings. He added that while most of the Standards are for new construction, some are for new construction in existing buildings.
- Bob Helbing (Air-Tro) felt would not see major energy savings with that focus.
- Tom Trimberger (CEC) noted that over 90% of the time permits are not being pulled.
- Brian Selby (Selby Energy) commented that the duct example clarified the extreme case of how Standards are changing. In order to effect existing construction, Standards need to change first before it can reach the building industry for existing construction.
- Tom Trimberger (CEC) replied that building Standards are just one issue for how they regulate existing buildings presently. He noted that the CEC "brain dump" is on existing buildings, although not all of it.

There was discussion about the tools available for better understanding of the Standards.

- Brian Selby (Selby Energy) noted that [EnergyCodeAce](#) is a co-funded agreement amongst the Investor Owned Utilities (IOUs) that provides resources for building departments, architects, engineers, designers, energy consultants, etc. There are [tools](#) referencing the Standards, [trigger sheets](#), and [fact sheets](#), as well as [FormsAce](#) to clarify which forms are required and when. The tools are continually added. [Training](#) is also provided.
- Charles Segerstrom (Consultant) added that the UtilityCodeAce project is inclusive of many people on this call. He reported that Jill Marver with PG&E is willing to align work in her capacity as the project manager.
- Tom Trimberger (CEC) noted that automation becomes more important as time goes on. They are looking at a model that would take compliance thru the lifespan of a project. The Registry is an information sharing model but building departments don't use it as much.
- Susan Davison (CalCERTS) felt that a great job was done to capture all the needed row categories. She noted that the gap analysis, such as was presented of people not knowing what the tools are like EnergyCodeAce, is key to making sure that "what is produced and what is reality don't miss each other".
- Tom Trimberger (CEC) confirmed that not everyone will be aware of the Standards, but that education for that is "part of our job".

There was discussion about the Standards currently being a disincentive and a few possible solutions for how to bring about needed change.

- Bob Helbing (Air-Tro) felt the CEC's strong historical focus on new construction will be a challenge. As California moves away from new construction and more toward repurposing existing buildings, the problem building departments have had is that a new building cannot be put into use until it has a certificate of occupancy. There is a strong motivation for all of the trades to comply with all of the regulations to get that certificate. Once the building has the certificate, the incentive is gone, so how do you get the trades to conform to code? Over thirty years of experience tells him that a code centered approach may not work. The Commission is "so code oriented" it may need to find another methodology to bring other people on board.
- Tom Trimberger (CEC) clarified that the Action Plan looks at means of doubling the levels of energy efficiency over the next 15 years from all existing buildings, but pointed out that codes are just one portion of it. There is no legislative top down push. There are lots of incentives and programs and tremendous funds invested on this looking at various actions that can help with that plan. There are a lot of people at the CEC working on different parts of this. Our focus is the HVAC lens and trying to tackle part of that, including the use of the code and instances in which it makes energy efficiency not happen due to regulations or by putting odd requirements, etc. It will be a portion of the effort going forward.



WHPA Existing Buildings Energy Efficiency (EBEE) Action Plan Committee
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- Charles Segerstrom (Consultant) commented via WebEx: “Regarding existing building standards, the train left the station years ago. The Code is in place, our goal is to help make it work with HVAC Change-outs, additions and alterations. Debating the need for regulations is not productive.”
- Ben Lipscomb (NCI) saw some issues around clarity of codes noting that with existing buildings there is a disincentive to comply with code, partially because of users afraid of compliance being forced to upgrade other components for code compliance. He suggested looking at all in the code for existing buildings and clarifying what will actually be looked at for an HVAC Change Out. Tom Trimberger (CEC) agreed.
- Ben Lipscomb (NCI) added that there will always will be gaps in language to determine when compliance is necessary and to make it clear what should be done. He suggested that there needs to be some central, knowledgeable authority to clarify intent of what is supposed to happen with the code. He felt that the CEC currently regurgitates code or directs to the local building department who doesn’t know and has forms completed.
- Bob Helbing (Air-Tro) asked for the Utilities to help provide research for understanding of “how bad energy consumption is on existing buildings”. He suggested that data for which buildings in their territories are outside energy consumption for their square footage and purpose would help target properties needing energy efficiency upgrades. He acknowledged that the approach may have some privacy issues regarding Utility bills but suggested that perhaps the Energy Commission could use their regulatory authority to allow Utility gathering of the information for these purposes for targeting energy incentives.
- Tom Trimberger (CEC) clarified that AB 802 requires Utilities to provide energy information to building owners which will allow for needed data tracking for the private economy.
- Bob Helbing (Air-Tro) noted that energy consumption is a small part for most commercial building owners so another incentive is needed to encourage change. He suggested using summer interns to look at square footage and supplement data on energy consumption of energy use by nature of the business with the SIC code and supplement the database of energy consumption with what they use. Build the database as a resource.
- Tom Trimberger (CEC) confirmed that is already being done through a credible data gathering component and that the information will be included on utility bills to notify normal usage versus the owner usage for the particular type of building in the area.
- Bob Helbing (Air-Tro) suggested also sharing that with a marketing effort to encourage people to make changes. Tom Trimberger (CEC) confirmed that is also being done.
- Tim Mann (Indio Cooling & Heating) noted that for commercial buildings, a great incentive is knowledge of the demand charges paid. If they knew that there is a possibility of air conditioning with technology blended with solar or other renewables available there would be great incentive to lower that bill. Tom Trimberger (CEC) confirmed that is also a part of the dollar sign. He indicated that around 2019, time of day billing will be much expanded. The marketplace is changing.

Kate Leyden (Valley Contractors Exchange) commended the comments on “writing style and paradigm change”. She “loves the focus on getting simpler language” and the openness to getting contractors involved, etc.

Next Steps

There was discussion about the next steps for completion of the work product.

- Susan Davison (CALCERTS) noted that an amazing amount of work is being done on the Committee regarding codes. She reminded that we are not being asked to solve everything, but are being asked to see what work is being done and can be seen by documenting what we know to get the information in one place. She believes the information will show up as the columns are completed. There should be a question about if the information is reaching the market, etc. She felt the current framework is great, but that further direction is needed on what to do to start moving forward so what is missing can be captured as we progress.
- Co-Chair Barbara Hernesman (CalCERTS) clarified that the important part for now is that this is the first attempt at extracting information from the CEC for a Sub-Strategy and putting it to the Group.
- Co-Chair Barbara Hernesman (CalCERTS) reported that the key questions for the Committee to answer to direct the information for the pathways to implementation are on the “Who? What? Where? When? How?”.



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- Tom Trimberger (CEC) clarified that the intent is to get information down but that the group should take it from there for cleanup, new information, etc.
- Co-Chair Barbara Hernesman (CalCERTS) thanked Tom Trimberger, David Ismailyan, and Martha Brook for organizing the “brain dump” within CEC to get us started.

ACTION: CEC to do a “brain dump” for each Sub-Strategy for what’s “in in their head” for a broader perspective for the EBEE Committee to digest, direct, and determine needed outcomes.

Co-Chair Barbara Hernesman (CalCERTS) confirmed that the next meeting will include discussion of continued work on the identified Sub-Strategies and base content provided by the CEC as well as EWG members.

ACTION: WHPA EBEE Committee Members to provide written comments on the WPPII – 2016 tab format and contents to WHPA Staff (wendy@performancealliance.org).

Wrap Up

WHPA Staff clarified that all future meetings are planned for 9am – 10am Pacific Time. The April 7, 2016 meeting will be with the voting panel comprised of Exploratory Working Group members only. The full Existing Buildings “Community” Committee will meet again on April 21, 2016. Additional EWG meetings will recur on the first Thursday of each month. Additional Existing Buildings “Community” Committee meetings will recur on the third Thursday of each month. Additional work will be handled by phone and email between meetings as needed so the focus of future meetings can be on review of updated work product.

ACTION: WHPA Staff will email distribute the March 17, 2016 meeting recording and draft notes to the roster.

ACTION: WHPA Staff to send out April 7, 2016 EWG and April 21, 2016 EBEE meeting notices.

WHPA Staff Note: The [WHPA EBEE Committee’s webpage](#) will be regularly updated with meeting recordings, notes, and the developing work product document(s). Additional page content will also be updated toward the end of March to reflect the recent WHPA Executive Committee decision on the 2016 SMART Goal topics.

Adjournment

WHPA Staff (Wendy Worrell) adjourned the meeting at 10:00 am PDT.

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Summary of Action Items and Key Decisions (from above discussion)

ACTION: CEC to do a “brain dump” for each Sub-Strategy for what’s “in in their head” for a broader perspective for the EBEE Committee to digest, direct, and determine needed outcomes.

ACTION: WHPA EBEE Committee Members to provide written comments on the WPPII – 2016 tab format and contents to WHPA Staff (wendy@performancealliance.org).

ACTION: WHPA Staff will email distribute the March 17, 2016 meeting recording and draft notes to the roster.

ACTION: WHPA Staff to send out April 7, 2016 EWG and April 21, 2016 EBEE meeting notices.

From Prior Meetings

ACTION: WHPA Staff to send the updated EWG roster contact list to the EWG members. (IN PROCESS - pending roster status confirmation communications)