

State of Hawaii Public Utilities Commission

Energy Efficiency Portfolio Standard (EEPS) Technical Working Group (TWG) Meeting

Meeting Summary

Thursday October 11, 2018
11:00am to 12:30pm Hawaii Time
Via Zoom Teleconference

11:00am Welcome – Ted Pope, Energy Efficiency Manager team (EEM)

- Welcome the TWG
- We are recording this meeting to be posted at hawaiieeps.org/twg-meetings
- The goals of this meeting are:
 - Discuss EEPS Review Research Action Plan
 - Provide progress update on EEPS Review activities
 - Discuss plan and progress on data collection from non-regulated contributing entities
 - Present overview of approach to Potential Study (note that Kelly Marrin will be presenting for Ingrid Rohmund)
 - Present overview of Baseline Study research design and sampling approach and solicit input on selected aspects of same
- We hope to have time for Q&A during each segment; and during the last 15 minutes

11:05 EEPS Review Research Action Plan – Kelly Marrin, AEG

- Present overview of Plan; discuss research questions to be answered by the EEPS review (see slides)
- Show how the key research projects are interconnected and how they answer the research questions (see slides)
- *Question: what counts in DER savings?*
Answer: Customer sited solar PV through 2015 and other DER savings not excluded by EEPS Framework. We are following framework and after a certain date customer sited PV doesn't count.
- *Question about the calculation for PV (e.g., PV doesn't produce all the time; how is that factored in)?*
Answer: the discussion is only conceptual to date and will be addressed fully and more completely in the fall, the team and others need to discuss calculations. An example was discussed, and it was noted that a number of permutations will need to be looked at and modelled over time to see if EE is substantive or not.
The questioner noted that increased export could create unintended consequences like thermal overloading on some circuits. It is challenging to model. The questioner added that in aggregate we have geographic areas

where we are starting to see evidence of new peaks in the middle of the day. He described the anecdote of PV allowing for “free air conditioning”, making the point about increasing consumption that could be hidden by PV”.

11:30 EEPS Review Tasks for 2019 Report to Legislature – Ted Pope, EEM

- Describes work on the legislative report (see slides)

11:35 Status of outreach on contributing entities – Kelly Marrin, AEG

- Describes contributing entity savings outreach (see slides)

11:40 Potential Study Overview – Kelly Marrin for Ingrid Rohmund, AEG

- Outlines the approach and schedule for Potential Study (see slides)

11:45 Baseline Study Plan – David Lineweber, AEG

- Describes research design and sampling plans (see slides)
- *Question: is the team is able to separate out low use customers from those with rooftop solar?*
Answer: Yes, they should be able to do that.
- *The presenter said that it is important to have a good plan for communications with a consistent message about the baseline study.*
- *The EEM describes that there will be a webinar opportunity for people who want to be involved with the more detailed decisions and invites those folks to send him an email.*

12:15pm General Discussion and open Q&A – Ted Pope, EEM

- Invitation for questions on any topics.
- *Question: a lot has changed and suggested consideration of EEPS metrics updates include consideration of affordability, carbon mitigation, and grid integration.*
- *Question about the initial presentation section about DERS – how are EV savings considered in the context of emerging trends and the potential study (e.g., some drive the load up (e.g., EVs) and some drive it down. Future Roof mounted solar PV is outside of EEPS).*
Answer: when we talk about EEPS, we’re talking about savings; whereas the potential study is about changes in consumption, so more of these questions will get answered there.
The group looked at slide 9 with “Key Questions by Category” and noted items in yellow are going to be picked up later in the EEPS review process (e.g., in 2019). Another commenter noted that the that the EV impacts are excluded from EEPS, so the EV can be projected, but it needs to then be backed out.
- *Question: Are you planning on capturing water conservation efforts, which affect potential future requirements for energy for water supply. And what about capturing water heating from non-electrical sources? It is important to consider both gas and electricity. A great majority of the commercial water is not electrically heated. Depending on prices, trends go back and forth.*

Answer: We'll consider that as we work on the Potential Study. This is relevant to the baseline study, too, where we are capturing the fuel sources of the water heaters.

- *Question: how solar is water heating treated?*

Answer: This is something to be discussed in 2019 for the full Potential Study run.

- *Observation: self-generating sites are sites that don't pay a utility bill are not eligible (e.g., a utility or the gas company or military on their own sites).*

12:29 Adjourn

- We will be posting the meeting materials and notes on the Hawaiiieps.org website. Also, the group will receive an invite for deeper discussion, if desired, on the baseline study design and sampling approach. We'll be focused on research for the 2019 Report to the Legislature this fall and then will turn to later parts of the research.