

Meeting Summary:
Hawaii Public Utilities Commission PBFA Technical Advisory Group (TAG)

June 23, 2017

1132 Bishop, 6th Floor
Honolulu, HI

Final Agenda:

Some adjustments were made to the agenda following the distribution of the agenda earlier in the week. The final agenda was as follows:

Agenda

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| 8:30 | Introductions |
| 8:45 | Hawai'i Energy |
| | • Update: PY2016 |
| | • Overview: PY2017 Annual Plan |
| | • TAG Q&A |
| 9:45 | Break |
| 10:00 | EEM Contractor |
| | • Team Background |
| | • Priorities for 2017 |
| | • TAG Q&A |
| 10:15 | EM&V Topics |
| | • Verification for PY 2016 |
| | • EM&V Research Updates |
| | • TAG Input |
| 10:35 | EEPS Review Discussion |
| 10:55 | Wrap Up |

Presentation Recap

Hawaii Energy Update:

1. Hawai'i Energy (HE) staff presented on the highlights of PY2016 operations (see slides)
2. A video documenting success in serving “hard to reach” customers and marketing efforts was shown.
3. HE staff provided an overview of PY2017 Plan, calling out changes planned for 2017 relative to 2016 (see slides)

EEM Contractor Background:

1. EEM team provided brief introduction of themselves (see slides)

2. EEM team summarized priorities for 2017 activity (see slides)

EM&V Topics:

1. Steve Schiller provided brief background on the purpose and process of EM&V
2. High level plan for addressing PY2016 verification process this fall was noted.
3. Recent EM&V research deliverables were noted (Comprehensive Longitudinal Study (CLE) and Historic Participation Analysis)
4. A brief summary of the Hawaii Energy Awareness Survey was presented (see slides)
5. EEM team plan for updating the PBFA EM&V Framework Document was described.

Energy Efficiency Portfolio Standard (EEPS) Review:

1. Chris Ann Dickerson presented brief background on the scope of the upcoming statutory review of the EEPS (see slides)
2. Steps for the EEPS review were provided, including:
 - a. Need for several Technical Working Group (TWG) meetings
 - b. Stepping back to consider changing electric grid and implications on EEPS
 - c. EEPS focused EM&V needs, including focus on load impacts and forecasting for resource planning (see slides).
 - d. See Hawaii PUC D&O 30089 EEPS Framework 2012 01-03 is (attached).

Discussion Highlights:

- Brian Kealoha (HE) mentioned that the Hawaii Energy programs are benefitting from momentum gained in prior years when budgets were higher. Hawaii Energy has pulled monies from Year 3 of the PBFA contract to meet Year 2 commitments. It remains to be seen whether there may be a slowdown based on reduced funding for outreach, energy studies, and incentives under the new contract. (rev)
- Carilyn Shon (DBEDT) noted desire to see HE support greater compliance with solar water heater requirement in new construction. As of 2010 all new single family homes must have solar hot water, but there are no sizing requirements. Too many people are opting out based on financial challenges. They say they can't afford solar hot water heating [even if they are building a new home]. Customers on the Big Island are using a lot of tankless gas water heaters.
- Brian Kealoha understood this concern but noted that HE's ability to address this need is limited by scope.
- Several participants register concerns about potential for scams; bad actors that might pretend to be with HE or HECO programs while they trick customers, particularly older or disadvantaged customers. Program administrators need to remain vigilant, but there is no silver bullet.
- Keith Block (HE) mentioned that Hawaii Energy is reducing incentives for LEDs due to market conditions.
- Hawaii Energy staff person notes spikes in program participation following radio spots. Also, Hawaii Energy sends email messaging to a mailing list of 65K names – thus far they

have only a 5 percent unsubscribe rate. Hawaii Energy is reaching out to people who have participated and analyzing participation data for segmentation and outreach.

- Hawaii Energy staff mentioned that contractors like to have printed materials in hand as well as the ability to point to additional information/tools on the Hawaii Energy website. Hawaii Energy will subsidize local ads for contractors that leverage the programs – this seems to work well and the contractors like it.
- Some program participation analyses suggest owner occupants and retired customers are more likely to participate in the programs.
- Several participants noted relatively limited representation of interested organizations in recent TAGs. Participation has dropped off in recent years, which may limit the amount of useful information/discussion that is shared. Need to consider desired participation.
- Caroline Carl (HE) suggested that as the HE program matured and previously involved stakeholders' interests were being addressed, participation levels dropped.
- Dave Parsons (Commission) asked how we could get more participation in these meetings.
- Carilyn Shon suggested that TAG meetings may not be the best way to reach some stakeholder groups that have an interest in the scope of the TAG meetings.
- Jennifer Elfalan (HECO) supported increased involvement of other parties in future TAG/TWG discussions and requested that presentation from the meetings be made available.
- Joanne Ide (HECO) noted that HECO forecast team is moving to hourly forecasts and needs for hourly load shape data and advocated for continued and increased collaboration for data sharing to better inform the 30 year load forecast.
- Nick Lange (VEIC) is interested in better, faster EM&V. Discussions included suggestions for more in the way of baseline studies and saturation studies including other DERs. Nick also noted that Technical Potential studies tend to under-predict energy efficiency opportunities and that the Commission and EEM team should remember that as it evaluates the EEPS program. Also, the residential and commercial baseline studies need to be updated.
- Yvette Maskrey (HE) forwarded a copy of the EEPS framework (2010-0037 order 30089 appendix in response to questions about the framework. (See attached.)
- Carilyn Shon said that DBEDT has stock turnover models that estimate the impacts from building codes.
- Carilyn Shon agreed to forward information about the implications of the new 2015 IECC building code.
- Keith Block would like better savings information on commercial refrigerator gasket seals.
- Brian Kealoha noted that PV air conditioning is increasing – worth noting for example in assessing energy efficiency potential.

Meeting Files/Materials:

- *TAG meeting 2017 06 23.docx* Draft Agenda (distributed on June 21, 201)

- *TAG 6.23.17 Hawaii Energy Power Point – Master V3.pdf*
- *EEM TAG Presentation final.pdf*
- *Hawaii PUC D&O 30089 EEPS Framework 2012 01-03.pdf*