

IGP Solution Evaluation and Optimization Working Group (Meeting #9)

Monday, March 16, 2020

1:00pm - 3:00pm

WebEx, Waterhouse Conference Room

Attendees

In-person

Christopher Lau, HE

Collin Au, HE

Vladimir Shvets, HE

Christopher Kinoshita, HE

Amanda Yano, HE

Sorapong Khongnawang,

HE

Brian Lam, HE

Marc Asano, HE

WebEx

Dale Murdock, Dale A

Murdock Consulting

David Parsons, HPUC

Clarice Schafer, HPUC

Gina Yi, HPUC

Grace Relf, HPUC

Jay-Paul Lenker, HPUC

Dean Nishina, DCA

Lisa Hiraoka, DCA

Marcey Chang, DCA

Rene Kamita, DCA

Derek Stenclik, Telos
Energy

Matt Richwine, Telos
Energy

Diwakar Tewari, Leidos

Ramsey Brown, Leidos

Gerald Sumida, Carlsmith

Ball/ Ulupono

Roderick Go, E3

Jeremy Laundergan,

EnerNex

Noelani Kalipi, Progression

Energy

Paul De Martini, Newport

Consulting

Steven Rymsha, Sunrun

Wren Wescoatt,

Progression HI Offshore

Wind

Will Rolston, Energy Island

Greg Shimokawa, HE

Isaac Kawahara, HE

Daniel Lum, HE

Dean Oshiro, HE

Joanne Ide, HE

Kanoa Jou, HE

Ken Aramaki, HE

Meredith Chee, HE

Nohea Hirahara, HE

Richard Wang, HE

Robert Uyeunten, HE

Therese Klaty, HE

Yoh Kawanami, HE

Agenda

- Welcome and Ground Rules
- Review of redline outline
- Review of sensitivities
- Next Steps

Discussion

- Review and receive feedback on redlined IGP SEOWG outline
- Review and receive feedback on updated sensitivities

Discussion

I. SEOWG Deliverable

- a. Commission: How would excess energy curtailment be used for FFR?
 - i. HECO: If a curtailed resource has headroom, there could be potential for an upward reserve, possibly FFR service.
 - ii. HECO: Given certain performance requirements, the excess generation could be used for some sort of frequency response, not necessarily FFR or limited to FFR.
- b. Commission: Would you expand Table 3.3 to include other types of frequency services?
 - i. HECO: The intent of this table was to be very broad and not solicit for singular solutions, but we could expand it to include other services like inertia, etc.

II. Sensitivities Deliverable

- a. To be provided for stakeholder review following this meeting.

III. Additional Comments

- a. Commission: How will the EoT tool model the benefits of managed charging?
 - i. HECO: EoT will be looking at more than just the EV forecast. E3 will be working with both the SEOWG and EoT teams to use the same models and assumptions.
 - ii. E3: There is still some preliminary parameters that need to be worked out.
 - iii. HECO: The reference case involves no managed charging as an assumption. It shows an increase in the system peak in the latter part of the forecast.
 - iv. Commission: If we wait the two years of an IGP cycle to deal with the unmanaged charging, then it seems too late in the game to try to solve. If the forecast shows future problems with it, perhaps we should try to address the unmanaged charging now.
 - 1. HECO: Yes, we will be working with EoT to coordinate.
 - v. HECO: Sequentially, the EoT modeling will occur before we do the IGP needs assessment, in order to know the effects of managed and unmanaged charging. The other sensitivity is to model with and without the DER uptake, to identify the value of having DER on the system. It will help to inform the rate design of the DER process.
- b. Stakeholder: What are you going to base your high and low wind and PV days on?
 - i. HECO: We will use historical data from existing IPPs.
- c. Stakeholder: How about forced outage data?

- i. HECO: For the forced outages, we're working with our Generation division to get a better idea of what they think forced outages will look like in the future.
- ii. Stakeholder: Would you create parameters around the amount and duration of the forced outage?
- iii. HECO: It would be difficult to pick and choose which generating units are out.
- iv. Stakeholder: Perhaps a 5-10% reduction in unit output should be considered?

SEOWG Deliverables and Schedule

1. SEOWG deliverable draft sent to stakeholders for review.
 - Reviewed redlined version.
2. Sensitivities document will be sent today for stakeholders to review.
3. Description of the optimization methodology to be used for proposed solutions that may address multiple resource/grid needs.
 - Due 6/1/2020 (to be informed by Stage 2 RFP).

Next Steps

- Next Meeting – April 2020 (tentative), WebEx
 - Review and discussion about SEOWG deliverable and sensitivities documents.
- Feedback may be submitted to – IGP@hawaiianelectric.com, or Chris Lau christopher.lau@hawaiianelectric.com