



Meeting Name	Date of Meeting
Microgrid Services Tariff Working Group Kickoff	October 3, 2019

Agenda

<p>Review of MST Objectives and Scope of Issues (Slides 3-4)</p>	<ul style="list-style-type: none"> Slides 3 & 4 incorporate additional context provided from the PUC Technical Conference (dated Sept. 19, 2019). MST Interconnection WG Deliverable & Scope <ul style="list-style-type: none"> Order No. 36481 on pg. 41 lists Hawaiian Electric’s proposed topics for discussion. Topics such as monitoring and control requirements, inverter requirements for anti-islanding, communication requirements, and standardization of resource functionality.
<p>Microgrid Services Tariff Framework (Slides 5-6)</p>	<ul style="list-style-type: none"> Microgrid architecture refers to the different types of customers (single, multiple on one campus, multiple across the grid). The current vision for the interconnection requirements would be to add an additional section to Rule 14H with a set of baseline operational requirements and technical requirements to operate a microgrid either for a single customer wanting backup power or for a broader microgrid. There could be additional requirements specific to certain features of the tariff. <p>Feedback from attendees:</p> <ul style="list-style-type: none"> The PUC talked about standalone systems. The WGs should consider that this would mean generation resource potential which might mean multiple processes which would add additional complexity. The new tariff should be looked at as a “portal” that pulls requirements from other tariffs, which would make it easier to apply for other programs. Resiliency maps to other dockets (e.g., Grid Services). The WGs should identify/map how this docket and others are aligned. Microgrids can be thought of as simpler than other resources because the system has to rebalance when it joins or leaves. There is more control and flexibility, so it gets easier, not harder. This is just the starting point based on SEPA and others that HECO has reached out to. We can adjust the framework as we go. What type of grid architectures exist in other states? <ul style="list-style-type: none"> Proceedings have been done in various states, but have not resulted in the development of a tariff. The WGs should consider looking at the business models of various microgrids, which may drive decision-making.
<p>Proposed Timeline of Activities</p>	<ul style="list-style-type: none"> In the timeline shown, the green Ps indicate updates for deliverables to the PUC. PUC status conferences on November 14, 2018 and January 9, 2019 are scheduled for 9 a.m. and will include remote access. All future meetings will be in person with remote access. Meetings will be scheduled early to accommodate those on the mainland.



Symposium Agenda	<ul style="list-style-type: none"> The Microgrid Services Tariff Symposium will be on October 14. That symposium will be used to hear contributions from other jurisdictions and to discuss the questions proposed in the framework slides and discussion.
Next Steps	<ul style="list-style-type: none"> Attendees were asked if there were any volunteers to serve as Chair/Co-Chairs of either the Interconnection or Market WGs (or both). Marcey Chang (Consumer Advocate) volunteered to serve as a Co-Chair on both working groups. Marc Asano (Hawaiian Electric) will serve as Co-Chair for Interconnection WG, and Ken Aramaki (Hawaiian Electric) will serve as Co-Chair for the Market WG. Hawaiian Electric requested feedback on the symposium agenda to Ken Aramaki (ken.aramaki@hawaiianelectric.com) by Monday, October 7, 2019. An invitation for the symposium will follow. Please indicate if you will be attending in person so we have an accurate headcount for lunch. Send any additional framework questions to Ken before the symposium on October 14, 2019. The next WG meeting requires an offsite meeting place on November 21. Please email Ken if you can provide a space with internet and presentation capabilities for about 50 people. Please send any other comments or suggestions to Ken.

Attendees:		
Marc Asano, HE	Alan Lee, HE	Rich Barone, HE
Ken Aramaki, HE	Andrew Okabe, Hawaii CA	Rick Pinkerton, HE
Erik Kunisaki, HE	Baird Brown, eco(n)law LLC – Microgrid Resources Coalition	Riley Ceria, HE
Tracie Black, HE	Brian Levite, S&C	Rod Aoki, RSA Law
Susan Char, HE	Bryant Komo, HE	Shereen Wachi, NAVFAC
Colton Ching, HE	Gerald Sumida, Carlsmith Ball	Steven Sano, HE
Earlynne Maile, HE	David Parsons, Hawaii PUC	Stewart Chong, HE
Craig Nakinishi, Cades Schutte	Dean Nishina, Hawaii CA	Ted Ko, STEM
Darene Matsuoka, Cades Schutte	Eaton O Neill, HE	Will Rolston, Energy Island
Alan Hirayama, HE	Lisa Dangelmaier, HE	Yoh Kawanami, HE
Henry Curtis, Life of the Land	Liza Jang-Che, HE	JP Ogata, HE
Jared Leader, SEPA	Marcey Chang, Hawaii CA	Keith Asato, HE
Jeremy Kwock, HE	Mark Glick, HNEI	Kevin Katsura, HE
Jonathan Chin, Hawaii State Energy Office	Michael Lum, HE	Leland Cockcraft, HE
Paul De Martini, Newport Consulting	Olivia Simpson, HE	Randall Shiro, HE