



Meeting Name	Date of Meeting
Microgrid Services Tariff Working Group Symposium	October 14, 2019

Agenda

<p>Introduction/ Framework</p>	<ul style="list-style-type: none"> The microgrid services tariff should focus on resiliency as the priority service and function of the Microgrid (“MG”) recognizing the potential for other DER services during normal conditions. This is consistent with the objective of Order No. 36481 and Act 200 and recognizing the work in other open proceedings that are dealing with other services and the timeframe to complete the tariff. Use of “Parking Lot” to track and map items that can be taken up in the other open proceedings Organizing framework for development of the MGS Tariff and WG activity was introduced and was not objected to
<p>Microgrid Archetypes</p>	<ul style="list-style-type: none"> Two major types of microgrid archetypes that will be focused on in the MGS tariff: “self contained” and “hybrid” (placeholder names & descriptions). Naming and definitions pending WG proposals. In general, the definitions discussed are: <ul style="list-style-type: none"> “Self contained” MGs are those customer MGs behind the utility interconnection only utilizing customer assets and electric infrastructure that are normally connected to the grid and able to island. Hybrid MGs are multi-user, have defined electrical boundaries, normally connected to the utility, able to island in event of an outage, one single point of interface, uses utility wires, more complex, and requires coordination with utility. <p><u>Action Item:</u> Working Group (“WG”) will suggest language and/or appropriate labels to differentiate between the two types of microgrid architectures. Definition from Microgrid Resources Coalition.</p> <ul style="list-style-type: none"> WG agreed that the following types of MGs are out of scope for MGS Tariff: <ul style="list-style-type: none"> Virtual MGs (Virtual Power Plants) – MGs that do not have a clear electrical boundary. Remote MGs without connection to the grid <p>Utility MGs as there are other regulatory mechanisms</p> <ul style="list-style-type: none"> Thoughts to keep in mind: <ul style="list-style-type: none"> Identify the type of microgrid that is not covered by other regulatory efforts. Technical requirements.
<p>MGS Tariff Structure</p>	<ul style="list-style-type: none"> Consider the development of a new MG tariff so it is clear which tariff applies. Current programs/tariffs may be referenced from this tariff. Develop the “Self Contained” MG tariff structure first, since it is more straightforward than the hybrid. Need to identify fundamental service requirements of MG. Identification of services or objectives paramount.



	<ul style="list-style-type: none"> No WG resolution on actual tariff structure, will be discussed further on 21st in context to “self contained” MG. Thoughts on structure of tariff (e.g., one microgrid tariff, microgrid ride for resilience). Need to also consider such definitions in tariff (e.g., distinguish between generate and produce).
Open Items for Further Discussion	<ul style="list-style-type: none"> Major factors that need to be addressed, such as ownership change and standby charges. Challenge is to place a value on reliability and resilience in the context of MGs. Need to consider types of events, time periods relative to event (normal, pre-event, and post-event), mode (islanded, normal), islanding to address the system need, etc. Consideration of greenhouse gases in the process More discussion on resilience value required. <ul style="list-style-type: none"> Value differs based on customer. Need to determine who pays or gets compensated for what (MG customer, ratepayers, MG operator, utility and how that relates to other programs). Depending on MG, need to review regulatory issues (e.g., MG multiple customers, passing multiple rights of ways) <ul style="list-style-type: none"> Taxes, surcharges, etc.
Parking Lot Items	<ul style="list-style-type: none"> Change of ownership. Standby Charges. Customer protection-related considerations. Microgrid/IGP procurement considerations. Considerations of gaming between utility-owned and 3rd-party MGs. Army/Military MG issues such as WG will consider nested microgrids, if appropriate. Interactions with other dockets. Consideration of societal, environmental value. Development of PPA model for hybrid MGs.
WG Work Planning	<ul style="list-style-type: none"> Volunteers were requested for development of WG Reports, and WG submittals (e.g., recommendation to PUC in Feb 2020). The WG decided all deliverables would be led/drafted by WG Co-Chairs. WG members will review and provide input, as needed. PUC confirmed WG Reports may be done in PowerPoint format. WG agreed to proceed with combined WG meetings due to overlapping topics and attendees. Hawaiian Electric requested WG to provide available conference rooms for the Nov. 21 meeting. Status on NELHA project.
Next Steps	<ul style="list-style-type: none"> WG to propose revised naming and description for 2 types of MGs for MGS Tariff



- Webinar scheduled Nov. 5 to discuss the revised framework, and proposed WG plan.
- WG members to provide suggested topics for future WG meetings.

Working Group Chairs:

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Attendees:

Anand Samtani, Hawaii PUC	Gina Yi, Hawaii PUC	Peter Yuen, NAVFAC Hawaii
Andrew Barbeau, The Accelerate Group	Henry Curtis, Life of the Land	Quinn Nakayama, PG&E
Andrew Okabe, Hawaii PUC	Henry Lee, HE	Randall Shiro, HE
Ashley Labasan, Hawaii PUC	Jared Leader, SEPA	Rich Barone, HE
Baird Brown, eco(n)law LLC	Jeremy Kwock, HE	Richard VanDrunen, HE
Bryant Komo, HELCO	Jonathan Chin, Hawaii State Energy Office	Rick Pinkerton, HE
Chris Villarreal, Plugged In Strategies	Kandice Kubojiri, HELCO	Riley Ceria, HELCO
Chris Yunker, Hawaii State Energy Office	Ken Aramaki, HE	Rod Aoki, RSA Law
Colton Ching, HE	Kevin Katsura, HE	Samantha Ruiz, Hawaii PUC
Craig Nakanishi, Cades	Leland Cockroft, HELCO	Shereen Wachi, NAVFAC Hawaii
Darene Matsuoka, Cades	Lisa Dangelmaier, HELCO	Stewart Chong, HE
Dean Nishina, DCCA	Lisa Hiraoka, DCCA	Todd Taniguchi, Holu Hou Energy
Eaton O'Neill, HE	Marcey Chang, DCCA	Tracie Black, HE
Ellen Nashiwa, MECO	Mark Glick, HNEI	Troy Uyehara, HE
Eric Kunisaki, HE	Miles Topping, UH	Will Rolston, Energy Island
Gerald Sumida, Carlsmith Ball/Ulupono	Olivia Simpson, HE	Yoh Kawanami, HE