



Meeting Name	Date of Meeting
Microgrid Services Tariff (MST) Phase 2 Working Group (WG) Meeting #2	May 17, 2022

Agenda

Meeting Objective(s)	<ol style="list-style-type: none"> 1) Obtain developer perspective on "barriers to microgrid development and what would make the microgrid tariff more attractive" 2) Review details of related microgrid and resilience initiatives at Hawaiian Electric
Review of Objectives & Ground Rules	<ul style="list-style-type: none"> • No additional feedback received on WG objectives or drafted ground rules
Developer Presentations	<ul style="list-style-type: none"> • Aidan Coyle (Ameresco) and Ted Peck (Holu Hou) provided their background, company experience with microgrid (MG) development, and discussed a few top barriers to MG development in Hawaii • Top barriers included: C&C permitting delays, supply chain issues (PV and batteries), integration of new technology, unclear definition of how a MG is defined (affects sizing criteria), project economics, current rate design, limited timeframe availability for grid services compensation (i.e. Battery Bonus), and unclear MG application process with Standard Interconnection Agreement (SIA) • Overall there needs to be a value proposition for the MST
Q&A	<p>Questions from WG members to Aidan and Ted:</p> <ul style="list-style-type: none"> • Q: What project sizes would be needed for MG projects (is the MST cap enough)? A: Example of a medical office would be 600-700kW DC PV plus a battery, would be under the MST cap (currently 3MW on Oahu) • Q: Is there a need to change large power/schedule J power charges to reduce energy/demand charges? A: Single outliers due to weather events can negatively impact the bill • Q: How would you suggest to streamline interconnection? A: Currently the process is straightforward with no major delays and appreciate the utility's communication on project status; suggest that there could be improvements on how to manage a large queue in the future. Business team to help with microgrid process. • Q: Re: Battery Bonus, is there an average size per unit? A: Example would be 10kW PV + 26kWh battery • Q: Can standby charges be considered to offset demand charges? A: As long as historical reference points are taken into account that could help • Q: If one were to develop a MG (with utility participation or not), why would you do it with the MST? How would this tariff encourage MGs? A: MG projects are only viable when there is benefit for the developer/client and utility; there could be improvement to the current rate schedule
Review of Related Dockets/	<ul style="list-style-type: none"> • Jerry confirmed the table was a helpful summary to track related dockets/initiatives • Gina suggested to include PBR docket, Christyn to add



Initiatives	<ul style="list-style-type: none"> Christyn to add IXC docket to track any interconnection issues
Feedback on High Level Work Plan	<ul style="list-style-type: none"> Paul suggested to check with Marc and Rick on timing of Integrated Grid Planning Resilience Working Group (IGP RWG) re: “identifying critical facilities” and “identifying community needs”; Christyn to follow up and may move this topic later in the year pending their response Jerry suggested to invite Baird Brown to be a guest speaker on “MG Compensation and Grid Services”; Christyn to reach out
Open Discussion	<ul style="list-style-type: none"> Jerry asked Paul to share how MGs are being developed on the mainland; Paul noted that Customer MGs have always been ongoing and there are only a few examples of Hybrid MGs (called Community MGs in California) and those have primarily used R&D funding, for example California has a \$200M Community Microgrid Incentive Program
Next Meeting	<ul style="list-style-type: none"> Gina requested to move next WG meeting from June 7 to June 9 due to a conflicting PUC Conference Topic may change pending IGP RWG timing and availability of guest speakers Christyn noted that meeting minutes and presentations are now available on Hawaiian Electric’s MST website: https://www.hawaiianelectric.com/about-us/our-vision-and-commitment/resilience/microgrid-services-tariff Christyn reminded group any feedback on how to improve the meeting format can be sent to Marcey or Christyn

Working Group Chairs:

Christyn Senda, HE	Co-Chair	christyn.senda@hawaiianelectric.com
Marcey Chang, DCCA	Co-Chair	mchang@dcca.hawaii.gov

Attendees:

Aidan Coyle, Ameresco	Bryant Komo, HE	Paul De Martini, Newport Consulting
Alan Hirayama, HE	Gerald Sumida, Carlsmith Ball (Ulupono)	Peter Young, HE
Alan Lee, HE	Gina Yi, Hawaii PUC	Riley Ceria, HE
Anand Samtani, Hawaii PUC	Kaiulani Shinsato, HE	Samantha Ruiz, Ulupono
Andrew Nojiri, HE	Kevin Oda, HE	Ted Peck, Holu Hou
Andrew Okabe, Hawaii PUC	Leland Cockcroft, HE	Troy Uyehara, HE
Ashley Agcaoili, Hawaii PUC	Lisa Dangelmaier, HE	Yoh Kawanami, HE
Blaine Hironaga, HE	Mark Wong, HE	