

# Microgrid Services Tariff – Working Group Kick-Off

*Docket No. 2018-0163  
October 3, 2019*



Hawaiian Electric  
Maui Electric  
Hawaii Electric Light

# Agenda

- ◆ Review of MST Objectives and Scope of Issues
- ◆ Microgrid Services Tariff Framework
- ◆ Proposed Timeline of Activities
- ◆ Symposium Agenda
- ◆ Next Steps



# **MST Interconnection WG Deliverable & Scope**

*(based on Order No. 36481 and September 19, 2019 Technical Conference)*

## **Deliverables**

- ♦ Proposed new section of Rule 14H specific to interconnection and islanding/reconnection of microgrids. (And any associated draft language for MST)

## **Scope**

- ♦ Develop standardized microgrid interconnection language to facilitate broader adoption.
  - ♦ The proposed interconnection changes should support microgrid and backup power applications under existing tariffs and the MST
  - ♦ Subtopics:
    - ♦ See Order No . 36481 (8/20/2019) at 41 for list of Hawaiian Electric proposed topics
- ♦ Identify interconnection process improvements to support microgrid applications at individual customer sites
  - ♦ Examine examples of interconnection requirements and processes
  - ♦ The new section of Rule 14H should standardize and streamline interconnection requirements and processes for existing and new microgrids
- ♦ Consider wheeling of power to support resilience during outage events



# MST Market WG Deliverable & Scope

*(based on Order No. 36481 and September 19, 2019 Technical Conference)*

## Deliverables

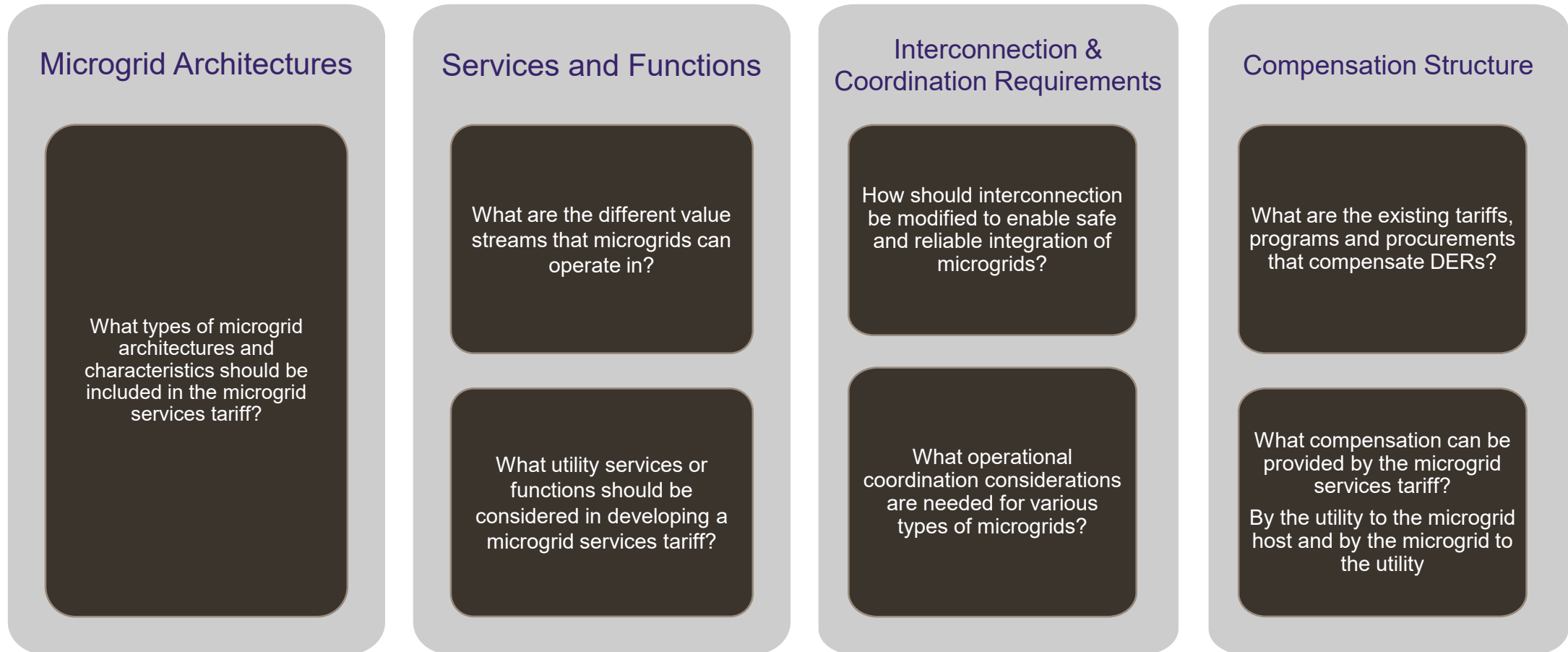
- ◆ Develop draft tariff language for the MST
- ◆ Consider modifications to existing tariffs and programs (including DER and DR)
- ◆ Explore new programs that would facilitate microgrid development consistent with the guidance offered.

## Scope

- ◆ Initial focus for this tariff is the islanding of a microgrid emergency conditions and outages to improve resiliency and provide service while the utility grid is down
- ◆ The Commission expects that microgrids developed under the MST would be allowed to enroll in existing and future programs to receive compensation for other grid services/value streams
- ◆ Develop recommendations to modify existing programs and introduce new programs in efforts to encourage the development of microgrids that bolster resilience (any actions on such recommendations would take place in other dockets)
- ◆ Consider wheeling of power to support resilience during outage events
- ◆ Justification for compensation for clearly demonstrated benefits to non-participants, if necessary



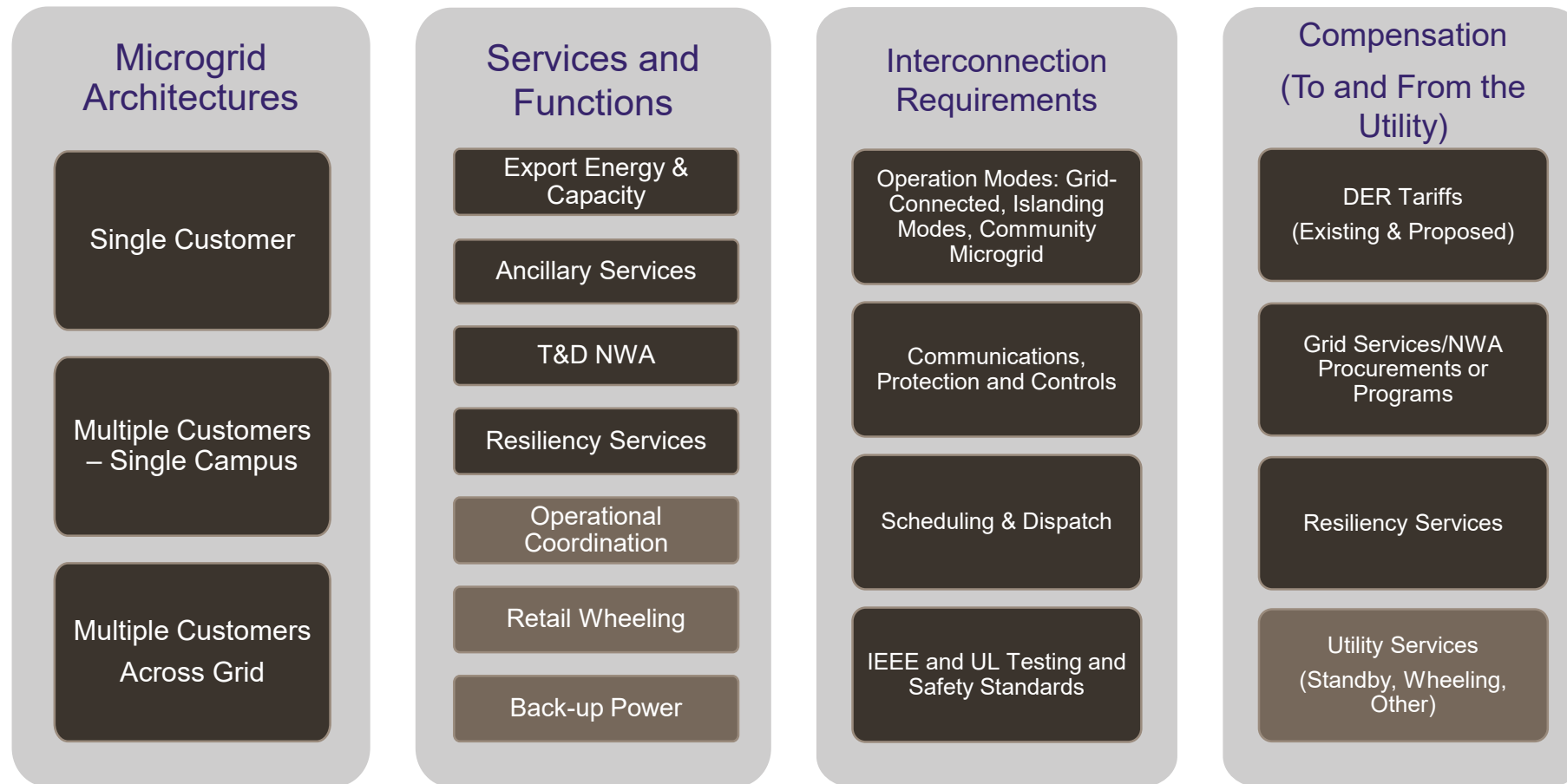
# Microgrid Services Tariff Framework



Source: Adapted from SEPA



# Microgrid Services Tariff Framework



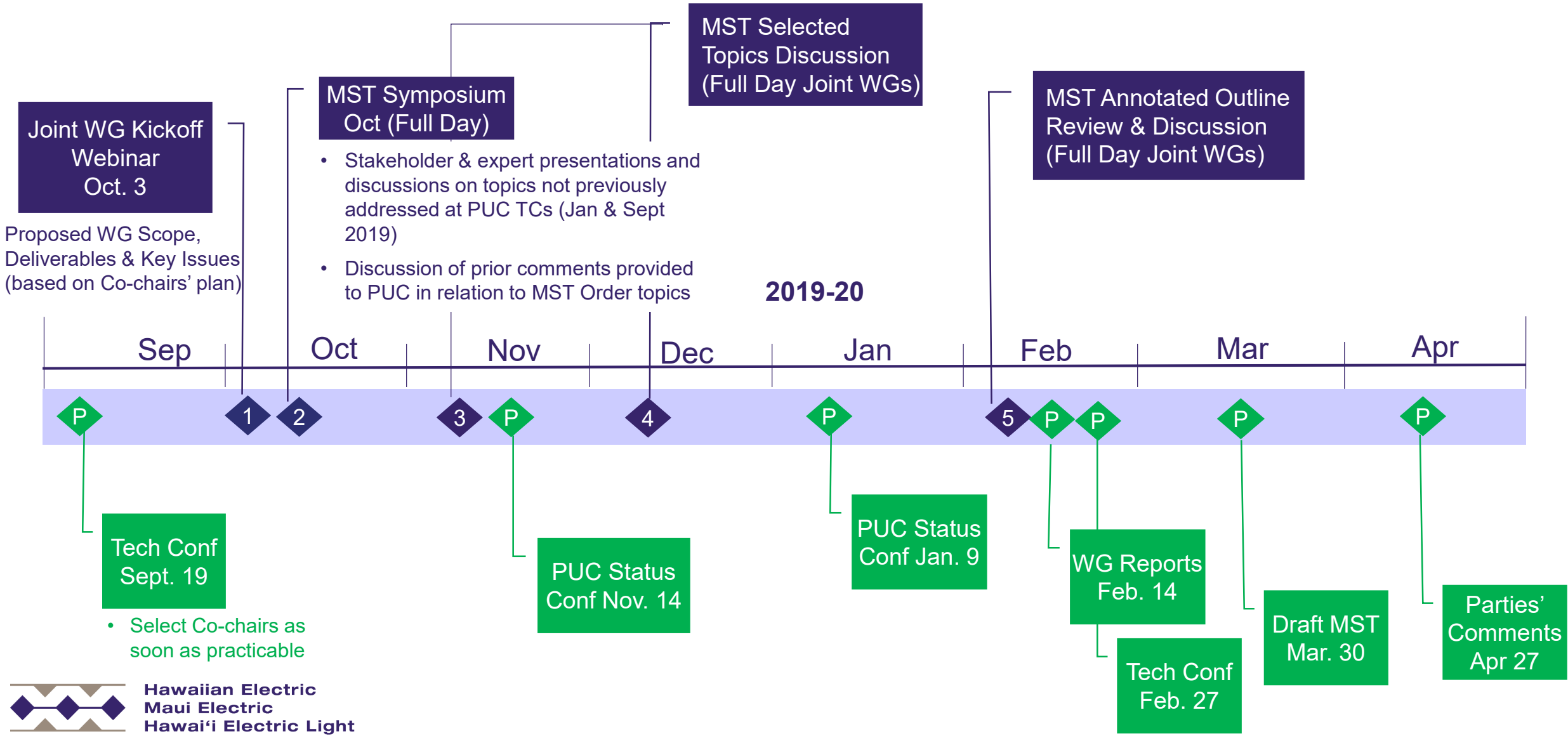
Source: Adapted from SEPA

Utility provided functions services, or compensation



# Proposed Timeline for MST WGs

*Adjust as needed based on co-chairs' direction*



# Symposium Agenda

## Tariff Framework Insights from Other Jurisdictions

- ♦ Illinois (Andrew Barbeau, The Accelerate Group)
- ♦ District of Columbia (Jared Leader, SEPA)
- ♦ California (tbd)

## Hawaii MST WG Topics

- ♦ Microgrid Architectures
  - ♦ Single Customer (tbd)
  - ♦ Multiple Customers – Single Campus (tbd)
  - ♦ Community Microgrid (tbd)
- ♦ Unique Microgrid Related Services
  - ♦ Microgrid
  - ♦ Utility

## Hawaii MST WG Topics (cont)

- ♦ Interconnection
  - ♦ Process
  - ♦ Technical Requirements
  - ♦ Communications, Protection & Control
  - ♦ Operational Coordination
- ♦ Compensation
  - ♦ Valuation
  - ♦ Other considerations
  - ♦ Existing and Proposed Tariffs/Programs/Procurements





# Next Steps

- ◆ **Agree on Co-Chairs for Combined WG**

- ◆ **Microgrid Symposium Meeting**

Tentatively Scheduled for October 14, 2019

American Savings Bank Building (1001 Bishop St.) 8<sup>th</sup> Floor in Training Room 2

8:30am – 1:30pm (please confirm in-person attendance for lunch headcount)

- ◆ **Participant availability for the November and December WG meetings**

November 21 or 22 (PBR Workshop Nov. 20) – Need offsite meeting place

December 3 or 4 at ASB

