



MICROGRID
KNOWLEDGE

Virtual Conference

Will COVID-19 Impact Microgrid Policy Progress?

Agenda

Moderator: Matt Roberts (Microgrid Knowledge) Director of Strategic Development

Speakers:

1. Joseph Sullivan (Concord Engineering) Vice President Energy Policy and Development
2. *Jason Burwen, Energy Storage Association, Vice President of Policy*
3. *Richard Stuebi, Future Energy Advisors, President*

Resources:

- Speaker Bios
- Ask the Experts: Q&A at End
- Microgrid Resources Library

Why I Hate My Microgrid in a Pandemic

Joseph Sullivan Vice President



Issues We Are Facing:

1. Issue #1 What Disaster Did We Plan For?
2. Issue #2 What Do We Need During The Current Crisis
3. Issue #3 Is My Microgrid Relevant

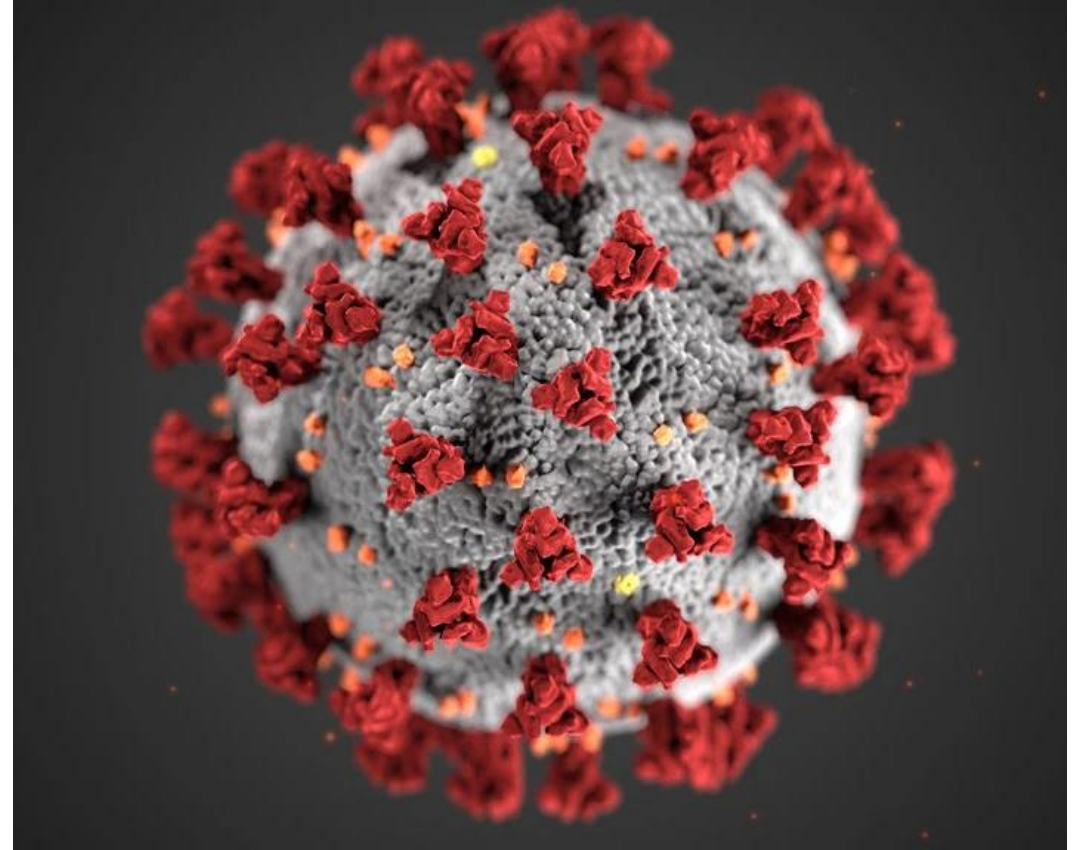


What Disaster Did We Plan For

- Grid Power Supply Interruption
 - Hurricanes
 - Cyber Attack
 - Ice Storms
 - Carbon Taxes
 - Wild Fires

This Is the Disaster we Got

1. Depressed Electric Demand
2. Different Daily Peak Load Curve
3. Most Traditional C&I as well as Campus Loads Diminished



Last Comments

This is a real Crisis and probably the most disruptive event in our lifetimes.

It is not about us it is not about microgrids

Our only opportunity lies in contributing to the economic recovery and hopefully one day soon some return to normalcy.

Storage, Microgrids, and Policy Drivers of Resilience

Jason Burwen, Energy Storage Association, Vice President of Policy

Challenges:

1. (Lack of) Valuing Resilience
2. Delays & Falling Budgets due to COVID
3. Interconnection



Positive Developments

1. FEMA Building Resilient Infrastructure & Communities Program to drive federal funds, spur state/local planning
2. California PUC Self-Generation Incentive Program + Microgrid Proceeding can set precedents for states
3. Adoption of Net System Capacity and other interconnection improvements in Nevada, Maryland, etc. as precedents
4. Value of DER and Bring Your Own Device programs creating precedents for payment-for-service
5. Opportunity Zone financing may hold promise

What ESA Advocates

1. Tax credits / federal funds for resilience deployments
2. State deployment targets and incentive programs
3. Interconnection updates



Microgrid Regulatory Policy Status in 2020

Richard Stuebi, Future Energy Advisors, President

Key Messages:

1. Lack of standardized regulation implies bespoke microgrid business models, increased development cost
2. Hawaii's first-of-a-kind microgrid tariff proceeding could set precedents, expediting standardization
3. Microgrid development will be impeded until value of resilience can consistently be monetized



Barriers to Multi-User Microgrids



Hawaii Microgrid Tariff Proceeding

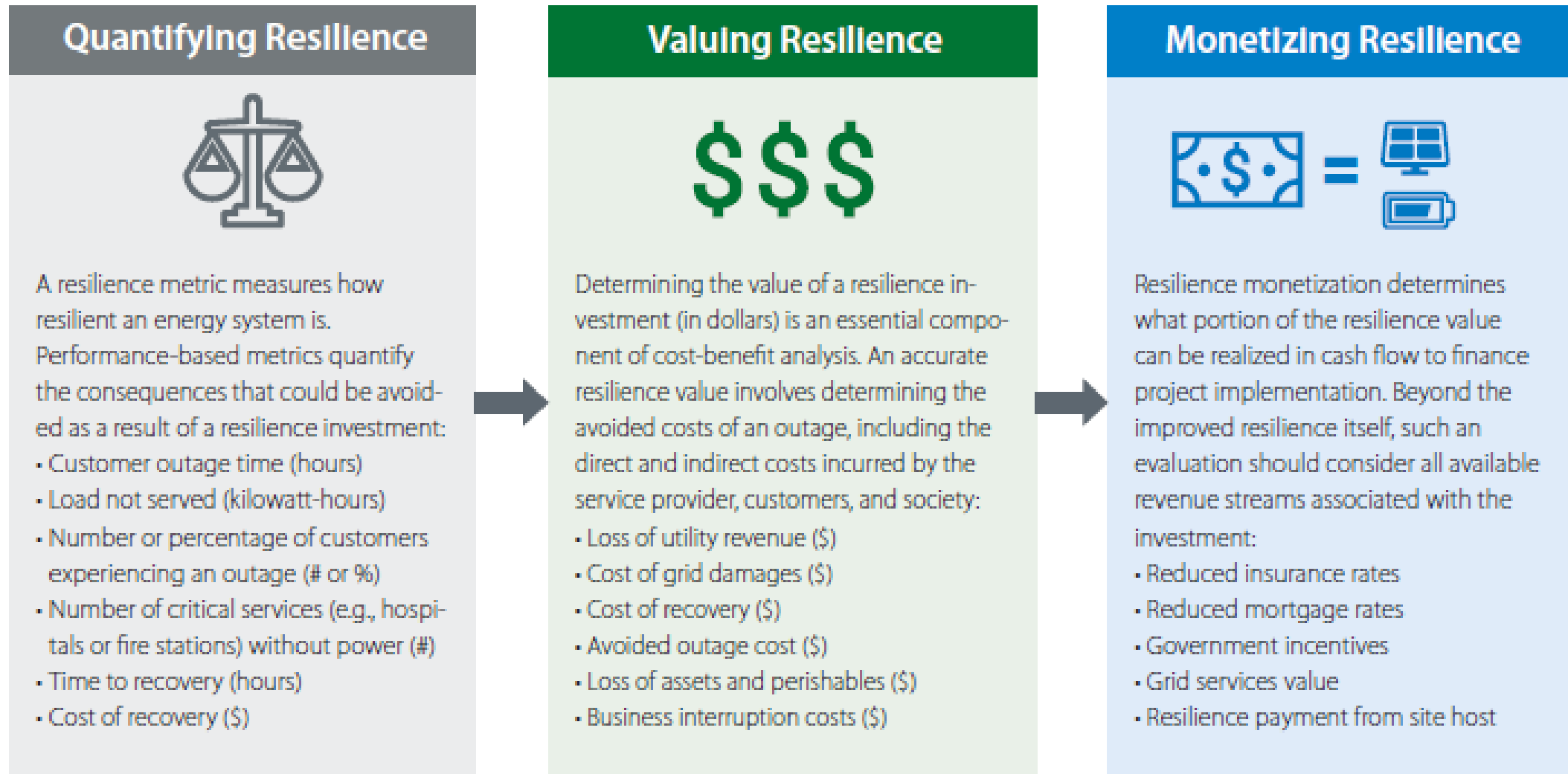
3/30/2020 HEC Co proposal

- Tariff applies to two types of microgrids (<3 MW on Oahu, <1 MW elsewhere):
 - Customer microgrid: only non-utility infrastructure behind PCC (microgrid becomes customer of HEC Co)
 - Hybrid microgrid: both utility and non-utility infrastructure behind PCC
 - Owner/operator and all customers must have accounts with HEC Co
- Tariff compensation terms:
 - Microgrid customers pay standard HEC Co rate schedules during both grid-connected and islanded mode
 - If desired, microgrid pays HEC Co \$5/kW-month charge for dispatch and islanding service

Concerns raised by intervenors

- Challenges associated with fundamental business model underlying microgrid definition
- Ambiguity on how existing HEC Co rate schedules and programs would actually apply to microgrids
- Undue technical/operational restrictions on microgrids operating in island mode
- No opportunity for microgrid to be compensated for key services:
 - Resilience value
 - "Islanding as demand response"
- Interconnection process remains vaguely defined (probably still too cumbersome)

Value of Resilience Still Unresolved





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Ask the Experts: Q&A Session

Type your questions in to the Q&A box

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Microgrid Knowledge Virtual Conference Resource Library

Recommended Resources

Microgrid Resource Library

- www.ThinkMicrogrid.com

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Save the Date : Microgrid 2020 Conference Nov. 18-20 - Philadelphia, PA

Finance Session: *Microgrids Have Leapt 'the Chasm.' What's on the Other Side?*

- Plus 90 speakers in 30+ sessions on best practices
- 35 exhibitors
- Networking opportunities





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Thank You!

*Next Session: Healthcare & Microgrids: Ensuring Power
When the Value of Resiliency is Immeasurable @ 2 PM
Eastern*

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