



## THE 2019 HAWAII ENERGY CONFERENCE – REAL SOLUTIONS BEYOND THE LABORATORY

Hawaii has been able to build on work by top researchers and develop best practices to integrate renewable energy. Help us answer these questions as we move toward the 100% renewable grid mandated for 2045. What have we gotten right? Where have we missed the mark? And how do we best use the remaining fossil sources of energy?

### WEDNESDAY, MARCH 27

**7:00 AM REGISTRATION**

**CONTINENTAL BREAKFAST | FOUNDERS COURTYARD**

**8:00 CULTURAL OPENING | CASTLE THEATER**

**E KOMO MAI (WELCOME)**

**8:15 KEYNOTE ADDRESS**

**9:00 Q&A DISCUSSION**

**9:15 COFFEE BREAK AND EXHIBIT SESSION | MORGADO HALL**

**9:45 WHAT'S AHEAD FOR SOLAR AND STORAGE IN HAWAII? A DISCUSSION WITH INDUSTRY LEADERS**

**LESSONS LEARNED POST NET ENERGY METERING (NEM)**

*What worked with NEM, what did we miss, what does the future look like? Join this discussion where we will ask the panel members to identify 10 things that still need to be fixed when it comes to PV in Hawaii.*

Moderated by:

**William Giese**, Executive Director, Hawaii Solar Energy Association

**10:30 OPTIONS TO INTERCONNECT NEW PV PROJECTS IN HAWAII**

*At the residential scale we will ask if NEM Plus can restore the health of the market. We will also explain the other options to interconnect to the grid with and without storage, and ask if aggregation is a real thing in Hawaii. At the utility scale we will update the status of new Variable and Firm Request For Proposals and other recent procurement efforts in Hawaii.*

**11:15 CASE STUDY**

**11:30 NETWORKING LUNCH | FOUNDERS COURTYARD**

**EXHIBIT SESSION AND DESSERT | MORGADO HALL**

**1:00 PM PERFORMANCE BASED REGULATION (PBR) AND OTHER NEW DIRECTIONS IN HAWAI'I ENERGY POLICY**

*Come hear how energy challenges in Hawai'i can be overcome with a blend of carefully targeted policy interventions that look at both renewable and fossil fuel energy sources.*

**RECENT INITIATIVES BY THE HAWAI'I PUBLIC UTILITIES COMMISSION**

*How is PBR different than performance based ratemaking? What incentives will work to align the interests of the utility with public policy? What incentives have been approved for fuel cost and renewables procurement? If new incentives are crafted, can they avoid increasing the ultimate cost to rate payers? What instances make sense to transform the market through incentives?*

Moderated by:

**Jennifer Potter**, Commissioner, Hawai'i Public Utilities Commission

**1:45 COMPARING TWO WESTERN STATES WITH HIGH LEVELS OF RENEWABLES**

*Over the past six years we have found many areas of common interest between Colorado and Hawai'i. Listen to experts talk about the best long term path to 100% renewable energy in different areas of Colorado, a state which has a long history of oil and gas production.*

Moderated by:

**Jonathan Koehn**, Director of Sustainability, City of Boulder

**2:30 CASE STUDY**

**2:45 COFFEE BREAK | MORGADO HALL**

**3:15 THE INTERPLAY BETWEEN FOSSIL AND RENEWABLE ENERGY IN THE REAL WORLD BETWEEN NOW AND 2045**

*We know our long term goal, but how do we get there using the right blend of resources? Most goods and passengers still travel in planes and ships powered by fossil fuels.*

**PITCH SESSION FOR BIOENERGY – WHAT ARE THE BUSINESS OPPORTUNITIES TODAY?**

*Join members of the Hawai'i Bioeconomy Trade Association as they discuss technical and business challenges in 2019.*

Moderated by:

**Jordan Little**, Portfolio Manager, Energy, Elemental Excelsior

- 4:00**      **SUSTAINABLE AIR TOURISM**  
*The visitor industry is where energy policy meets the real world in Hawai'i. How will the visitor industry be affected by changes to ICAO's aviation mandate for carbon reduction, the U.S. federal Renewable Fuel Standard, and other developments?*
- Moderated by:  
**Joelle Simonpietri**, Simonpietri Enterprises
- 4:45-6:45 PM**      **NETWORKING RECEPTION | MORGADO HALL**

**THURSDAY, MARCH 28**

- 7:00 AM**      **REGISTRATION**  
**CONTINENTAL BREAKFAST | FOUNDERS COURTYARD**
- 8:00**      **WELCOME TO DAY TWO | CASTLE THEATER**
- 8:15**      **INVITED PRESENTATION**
- 9:00**      **OPERATING ISOLATED GRIDS EFFICIENTLY WHILE BEING RESILIENT**  
*Even if lava flow is not an issue where you live, hurricanes, wildfires, and extreme wind may be. In Hawai'i we have to plan for all of this without an ability to import electricity from other areas.*
- MOLOKA'I AS A CASE STUDY**  
*In Hawaii, Moloka'i has the highest average cost of electricity, the lowest average daily use of electricity, and high penetration of distributed PV. Despite the challenges Moloka'i is expected to be the first island to get to 100% renewable.*
- Moderated by:  
**Chris Reynolds**, Maui Electric Company Ltd.
- 9:45**      **COFFEE BREAK AND EXHIBIT SESSION | MORGADO HALL**
- 10:15**      **OPERATING ISOLATED GRIDS EFFICIENTLY WHILE BEING RESILIENT (CONTINUED)**  
**COMPLEX ISOLATED GRIDS**  
*An explanation of grid planning in Hawai'i. What are the objectives and how has the process changed over the last five years? Hawaiian Electric is developing a new Integrated Grid Planning approach. How is it working? How is the approach different on Kaua'i?*

Moderated by:  
**Colton Ching**, Vice President Energy Supply, Hawaiian Electric Company

**11:00**      **CASE STUDY**

**11:15**      **NETWORKING LUNCH | FOUNDERS COURTYARD**

**EXHIBIT SESSION AND DESSERT | MORGADO HALL**

**12:45 PM**      **COMPARING PATHS TO 100%**

*We will look at the differences within the islands of Hawai'i but also at other locations around the globe.*

**A SURVEY OF HAWAI'I**

*Each island has charted a slightly different course. Come learn which islands are looking for hydro, wind, solar, and biomass projects over the next decade. How has this already been disrupted through RFPs? Where has innovation taken place and what are the impacts?*

Moderated by:  
**Robert "Rocky" Mould**, Energy Program Manager, City and County of Honolulu

**1:30**      **CLEAN ENERGY LEADERS**

*Leaders from other places around the globe asking how we can increase the quality of life for residents while we increase the RPS percentages. Is it important to set price requirements when setting renewable standards? What if there was legislation requiring a 30% reduction in the retail price of energy by 2045?*

Moderated by:  
**Representative Chris Lee**, Chair, House Judiciary Committee, State of Hawaii

**2:15**      **CASE STUDY**

**2:30**      **COFFEE BREAK | MORGADO HALL**

**3:00**      **UNLEASHING THE POWER OF CLEAN ENERGY IN HOUSING MARKETS**

*Is it really such an outrageous idea to think we could build affordable housing in smart connected communities that can limit future electricity demand while providing services to the grid?*

**LESSONS LEARNED FROM BUILDING IN HAWAI'I**

*How can new housing developments be a catalyst for further clean energy gains? How do we bring together government, regulators, developers, energy producers, the utility and the community in a common cause to create a clean energy-housing construction nexus? What are the complete energy needs (beyond efficiency) of residents and what are developers doing*

*to meet these needs? Can we build housing in smart connected communities that can limit future electricity demand while providing services to the grid?*

**3:45**      **DOES ENERGY EFFICIENCY STILL MATTER?**

*With the average home in Hawai'i using significantly less than homes in any other state, does energy efficiency still make sense in Hawai'i? What part does the falling cost of storage play in this analysis?*

Moderated by:  
**Caroline Carl**, Deputy Director, Hawai'i Energy

**4:30**      **CLOSING**

**4:30-6:00 PM**      **WOMEN IN RENEWABLE ENERGY (WIRE) PAU HANA | YOKOUCHI PAVILION**

*Enjoy the opportunity to network with women across the state.  
(\$10 cover includes light appetizers. Cash bar for refreshments. Registration details TBC)*

## 2019 PROGRAM COMMITTEE

**COLTON CHING** | Vice President, Energy Delivery, Hawaiian Electric

**FRANK DE REGO JR.** | Vice Chair, Conference Program Committee; Director of Business Development Projects, Maui Economic Development Board, Inc.

**WILLIAM GIESE** | Executive Director, Hawaii Solar Energy Association

**JONATHAN KOEHN** | Regional Sustainability Coordinator, City of Boulder

**DAWN LIPPERT** | Chief Executive Officer, Elemental Excelsior

**DOUG MCLEOD** | Chair, Conference Program Committee; Member, DKK Energy Services LLC

**JENNIFER POTTER** | Commissioner, Hawaii Public Utilities Commission

**FREDERICK REDELL** | Energy Commissioner, Maui County Office of Economic Development