

# 5th MAUT ENERGY CONFERENCE + EXHIBITION

Maui Arts & Cultural Center March 14-15, 2018



**Decarbonization: A Business Opportunity for Innovative Communities** 



## SHAPING MAUI COUNTY'S ENERGY FUTURE!





One Main Plaza Building, Suite 305 • 2200 Main Street • Wailuku, HI 96793 • 808.270.7710 • www.mauicounty.gov/oed





OFFICE OF THE MAYOR

County of Moui 200 South High Street Wailulw, Mawi, Hawaii 96793

#### A MESSAGE FROM MAYOR ALAN M. ARAKAWA

Aloha Kakou,

On behalf of the County of Maui, it is my pleasure to welcome you all to the 2018 Maui Energy Conference! Our Mayor's Office of Economic Development and the Maui Economic Development Board are proud to present this year's event, which explores decarbonization as an opportunity. As a community we are on the leading edge of transformation and innovation that is shaping our future. Viewing this transformation through the lens of opportunity reinforces the benefits that we can share across all sectors of our economy.

During the last year many things have happened in Hawai'i and around the world that are providing context while we work together to shape our energy future. Most notably is the continued decline in the cast of solar and energy storage, where it is now competing head-tohead with conventional technologies to provide power when the grid needs it. This is a dramatic shift that illustrates the real possibility to economically decarbonize our energy future.

Over the next two days you will have the opportunity to attend panels with nationally-recognized experts, explore the various products and services displayed in the exhibits hall and interact with individuals and lousinesses from around the world. Your participation in the Maui Energy Conference is and always will be a big part of its success. We appreciate you coming to Maui to share what is working in your home locations and look forward to learning about new policy and practices that can help us navigate the rapidly changing environment in energy production and delivery.

We gratefully acknowledge the many partners and sponsors and their generous contributions that have helped bring this conference back for a fifth year. A special mahalo to the Maui Arts & Cultural Center for again hosting us in this beautiful venue.

Best regards,

Aian M. Arakewa Mayor, County of Maui

# HAWAII-

#### Together, we go farther. HAWAII STATE blue Splanet

Our coalition seeks to: promote electric vehicles, cut fossil-fuel transportation and add more renewable energy.

Electric cars, trucks, buses, bikes, harbor and airport equipment all offer ways to meet our goal to move people and goods cleanly and efficiently.

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## WEDNESDAY | MARCH 14

7:00 AM	REGISTRATION   Founders Courtyard
	<b>CONTINENTAL BREAKFAST   Founders Courtyard</b> Sponsored by Hawaiian Electric, Maui Electric, Hawaii Electric Light
8:00	CULTURAL OPENING   Castle Theater Clifford Nae'ole, Cultural Advisor, The Ritz-Carlton, Kapalua
	<b>E KOMO MAI (WELCOME)</b> <b>Teena Rasmussen,</b> Economic Development Director, County of Maui <b>Leslie Wilkins,</b> President & CEO, Maui Economic Development Board, Inc.
	THE BUSINESS OF CARBON–YOUR 10-MINUTE INTRO Doug McLeod, Chair, Conference Program Committee
8:30	KEYNOTE ADDRESS   Hawaii as a Climate Leader Representative Chris Lee, Chair, House Committee on Energy and Environmental, State of Hawaii
9:15	Q&A Discussion
9:30	COFFEE BREAK AND EXHIBIT SESSION   Morgado Hall Sponsored by Hawaii Energy/Leidos
10:00	<b>THE LIMITS OF THE HAWAII CLEAN ENERGY INITIATIVE   Castle Theater</b> The Hawaii Clean Energy Initiative (HCEI) has made claims to be a catalyst for significant strides in renewable energy, but there are lingering questions. What exactly is HCEI? What are its limits? Does it address carbon? Is there a worthy successor?
	Moderated by: William Giese, Executive Director, Hawaii Solar Energy Association
	<b>Hermina Morita,</b> Energy Dynamics <b>Alan Oshima,</b> President and Chief Executive Officer, Hawaiian Electric Company <b>Gerald Sumida,</b> Partner, Carlsmith Ball LLP
10:45	<b>BUSINESS OPPORTUNITIES CREATED BY HCEI</b> What have we learned about nurturing business opportunities in the renewable energy sector? What are the hits and misses involving utility scale and distributed renewable resources? Is there a viable market for carbon?
	Moderated by: <b>Luis Salaveria,</b> Director, Department of Business, Economic Development and Tourism, State of Hawaii
	<b>Kyle Datta</b> , General Partner, Ulupono Initiative <b>Dawn Lippert</b> , Chief Executive Officer, Elemental Excelerator <b>Wren Wescoatt</b> , Principal, 7 Generation Consulting
11:30	LUNCH   Founders Courtyard Sponsored by Hitachi ASK A QUESTION
	EXHIBIT SESSION AND DESSERT   Morgado Hall
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1:00 PM	<b>CONVERGENCE: HOW IT ALL COMES TOGETHER   Castle Theater</b> What shared platforms for success can be created that involve all stakeholders—government, private sector, environmental community, and the public at large? What shared solutions are possible for connecting transportation and the grid?
	Moderated by: <b>Scott Seu,</b> Senior Vice President of Public Affairs, Hawaiian Electric Company
	<b>Stacey Crowley,</b> Vice President, Regional and Federal Affairs, California Independent System Operator Corporation (CAISO)
	Martha Symko-Davies, Laboratory Program Manager, Energy Systems Integration, National Renewable Energy Laboratory
	Mike Yamane, Chief of Operations, Kauai Island Utility Cooperative
1:45	HAWAII ENERGY VIDEO: REDUCING CARBON THROUGH ENERGY EFFICIENCY Caroline Carl, Deputy Director, Hawaii Energy
2:00	<b>STORAGE TECHNOLOGIES: A REVIEW OF ALL THE OPTIONS</b> How has the market in storage technologies developed? Are there better solutions on the horizon?
	Moderated by: Kelly Speakes-Backman, CEO, Energy Storage Association

Mark Stout, Vice President, Project Development, Amber Kinetics Boris Von Bormann, CEO, Mercedes-Benz Energy Americas, LLC Jon Yoshimura, Pacific Market Development, Tesla

## THINK LOCAL. ENERGIZE GLOBAL.

The **Hawaii State Energy Office** is committed to making Hawaii a trailblazing model for global energy transformation with aggressive clean energy goals and groundbreaking, clean tech investments.





2:45	RESOURCE POLICIES	<b>S RESPOND TO EVOLVING DISTRIBUTED ENERGY</b> of Business, Economic Development & Tourism, of Hawaii
3:00	COFFEE BREAK   Morgado H	all
3:30		<b>OLUTIONS</b> s of regulating carbon? Is there a need for putting a price on om what hasn't worked so far? Can a voluntary process work?
	Moderated by: <b>Matthew McDonnell,</b> Commission Co	ounsel, Hawaii Public Utilities Commission
	<b>Sonia Aggarwal,</b> Vice President, Ener <b>Chris Lee,</b> Chair, House Committee o <b>Doug McLeod,</b> Chair, Conference Pro	n Energy and Environmental, State of Hawaii
4:15 5:00 - 7:00 PM	CARBON AND ENERGY EFFICIENCY: WHAT IS THE CONNECTION? In what ways is energy efficiency effective in reducing carbon? What is the relationship between energy efficiency and demand response? Moderated by: Jennifer Potter, Project Specialist, Hawaii Natural Energy Institute Chris Badger, Senior Consultant, Vermont Energy Investment Co. Caroline Carl, Deputy Director, Hawaii Energy Carilyn Shon, Administrator, Hawaii State Energy Office	A 100% CLEAN ENERGY FUTURE IS SOMETHING TO SMILE ABOUT
S:00 - 7:00 PM	Morgado Hall	Getting Hawai'i on the fast track to energy independence.
	GO TO <b>SIFT.LY</b> IN BROWSER; ENTER PARTICIPANT CODE MEC18	Hawaiʻi Energy Feidos Learn how you can be part of the movement at HawaiiEnergy.com

#### **THURSDAY | MARCH 15**

7:00 AM	REGISTRATION   Founders Courtyard
	CONTINENTAL BREAKFAST   Founders Courtyard Sponsored by Sempra Renewables
8:00	WELCOME TO DAY TWO   Castle Theater Lisa Briggs, Manager, Sempra Renewables Sharon Suzuki, President, Maui Electric Company
8:15	INVITED PRESENTATION   Maui Energy Conference—5 Years Later Alice Madden, Executive Director, Getches-Wilkinson Center for Natural Resources and former Principal Deputy Assistant Secretary, U.S. Department of Energy
9:00	<b>DECARBONIZING TRANSPORTATION</b> An update on recent developments in maritime, aviation, and ground transportation. E-bikes, the real success story so far.
	Moderated by: <b>Brennon Morioka,</b> General Manager of Electrification of Transportation, Hawaiian Electric Company
	<b>David Graham</b> , Deputy Chief Operation Officer, Neighborhood Services, City of San Diego <b>Michael Hansen,</b> President, Hawaii Shippers Council <b>David Snyder,</b> Executive Director, California Bicycle Coalition
9:45	CASE STUDY: BALANCING EVS AND THE HIGHWAY FUND Murray Clay, Managing Partner, Ulupono Initiative
10:00	COFFEE BREAK AND EXHIBIT SESSION   Morgado Hall Sponsored by Elemental Excelerator
10:30	<b>REVERSE PITCH SESSION   Castle Theater</b> This session will lay groundwork to remove barriers to deploying innovation to achieve a decarbonized future in government and large companies. Our business and government leaders will present their commercial opportunity or challenge in a 'reverse pitch' format. The 2-4 minute pitch will share pain points they hope to find solutions for in the next 12-18 months.
	This panel will be streamed on social media, targeting a global audience of entrepreneurs interested in applying to Elemental Excelerator's 2019 cohort.
	Hosted by: <b>Aki Marceau,</b> Director of Policy & Community Hawaii, Elemental Excelerator <b>Fred Redell,</b> Energy Commissioner, Office of Economic Development, County of Maui
11:15	LUNCH   Founders Courtyard Sponsored by Hawaii State Energy Office
	EXHIBIT SESSION AND DESSERT   Morgado Hall
12:45 PM	<b>INNOVATIVE COMMUNITIES CREATE A ROADMAP TO DECARBONIZATION</b> How are municipalities and states developing policies that address both renewable energy and climate?
	Moderated by: <b>Frank De Rego Jr.,</b> Director of Business Development Projects, Maui Economic Development Board Inc.; Vice Chair, Conference Program Committee
	<b>Robert Mould,</b> Energy Program Manager, City and County of Honolulu <b>Lucinda Smith,</b> Environmental Services Department Director, City of Fort Collins <b>Ben Sullivan,</b> Energy Coordinator, County of Kauai

#### **THURSDAY | MARCH 15**

1:30	<b>INTERNATIONAL LESSONS IN CARBON REDUCTION</b> What can we learn from Germany, Japan, and others about the challenges of carbon mitigation? How are developing countries like Mexico blazing new pathways in renewable energy and carbon reduction through international support and cooperation? What lessons can be gleaned in the efforts of other countries to put a price on carbon?
	Moderated by: John (J.C.) Thomas, Director of External Affairs, Sempra Infrastructure
	<b>Jeremy Martin,</b> Vice President Energy & Sustainability, Institute of the Americas <b>Sarah Moe,</b> Senior Consultant, Sustainable Buildings & Communities, DNV GL Energy Services <b>Takashi Ohara,</b> Deputy Manager, Tokyo Electric Power Co Ltd
2:15	COFFEE BREAK   Morgado Hall Sponsored by Hawaii Natural Energy Institute
2:45	<b>CARBON FARMING AND ENERGY CROPS</b> Hawaii established a Carbon Farming Task force in 2017. What financial opportunities exist? What are the most promising energy crops for Hawaii?
	Moderated by: <b>Rick Volner,</b> General Manager of Diversified Agriculture, Alexander & Baldwin
	<ul> <li>Susan Crow, Asst. Professor, Department of Natural Resources &amp; Environmental Management, University of Hawaii, Manoa</li> <li>Charlotte O'Brien, Founder and Chief Executive Officer, Carbon Drawdown Solutions</li> <li>Fred Redell, Energy Commissioner, Office of Economic Development, County of Maui</li> </ul>
3:30	CASE STUDY: MAXIMIZE ENERGY STORAGE VALUE WITH ADVANCED CONTROL AND OPTIMIZATION TOOLS Patrick Lee, Vice President, Sempra Infrastructures; President, PXiSE Energy Solutions
3:45	MODERATED DISCUSSION: IS HAWAII'S 100% RPS WORTH THE COST?
	Moderated by: <b>Gavin Bade,</b> Senior Reporter, Utility Dive
	Jeffrey Mikulina, Executive Director, Blue Planet Foundation Richard Rocheleau, Director, Hawaii Natural Energy Initiative
4:30	CLOSING
4:30 – 6:00 PM	MAUI WIRE (WOMEN IN RENEWABLE ENERGY) PAU HANA   Founders Courtyard Enjoy the opportunity to network with women across the state. (\$10 cover includes light appetizers. Cash bar for refreshments. Register at http://bit.ly/MAUIWIRE)

#### MAHALO TO THE PROGRAM COMMITTEE

LISA BRIGGS | MANAGER, SEMPRA RENEWABLES COLTON CHING | SENIOR VICE PRESIDENT PLANNING & TECHNOLOGY, HAWAIIAN ELECTRIC COMPANY FRANK DE REGO JR. | DIRECTOR OF BUSINESS DEVELOPMENT PROJECTS, MAUI ECONOMIC DEVELOPMENT BOARD, INC. JAMES (JAY) GRIFFIN | COMMISSIONER, HAWAII PUBLIC UTILITIES COMMISSION JONATHAN KOEHN | REGIONAL SUSTAINABILITY COORDINATOR, CITY OF BOULDER DOUG MCLEOD | CHAIR, CONFERENCE PROGRAM COMMITTEE SEBASTIAN (BASH) NOLA | UTILITY CONSULTANT AND FORMER SO. CAL. EDISON EXECUTIVE DAVE PARSONS | CHIEF OF POLICY AND RESEARCH, HAWAII PUBLIC UTILITIES COMMISSION FRED REDELL | ENERGY COMMISSIONER, OFFICE OF ECONOMIC DEVELOPMENT, COUNTY OF MAUI

## Empowering our 100% clean energy future.

Empowering our communities.

Empowering You.

#### **VIEW PROGRAM + SPEAKER BIOS**



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HAWAII

#### **GET CONNECTED**

Network Name MauiNRG



Password greenisgood

### Powered by preservation

As a leading renewable energy developer, Sempra Renewables believes that clean energy is a powerful way to improve lives. That's why we're so proud to support the Maui Energy Conference. And why we salute those who power it.





SempraRenewables.com

Sempra Renewables, LLC is not the same company as the California utilities, San Diego Gas & Electric Company (SDC&E) or Southern California Gas Company (SoCalGas), and Sempra Renewables, LLC is not regulated by the California Public Utilities Commission.

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