



ALL THINGS ENERGY:
PURSUING OPPORTUNITIES FOR
ELECTRICITY AND BEYOND





Maui Arts & Cultural Center March 22-24, 2017

2017 Program

SHAPING MAUI COUNTY'S ENERGY FUTURE!









OFFICE OF THE MAYOR

County of Maui 200 South High Street Wailuku, Maui, Hawaii 96793

A MESSAGE FROM MAYOR ALAN M. ARAKAWA

Aloha Kākou,

On behalf of the County of Maui, it is my pleasure to welcome you all to the 2017 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 new and innovative pathways to a vibrant and clean energy future. As a community we all seek an enduring economy and environment. Shaping our energy future to be one that is resilient takes everyone's participation.

During the last year many things have happened in Hawai`i and around the world that are providing context while we together shape our energy future. Most notably were the denial of the utility merger, the utilities' updated Power Supply Improvement Plan, a dramatic decline in the cost of energy storage, and an uptick in fossil fuel prices. Each of these events help chart the course, but we are still reminded that the economic dynamics are fragile.

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 businesses from across the country. 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 fourth year. A special mahalo to the Maui Arts & Cultural Center for again hosting us in this beautiful venue.

Best regards,

Alan M. Arakawa

Mayor, County of Maui

MAHALO TO OUR SPONSORS & EXHIBITORS

TERAwatt









EXHIBITORS

‡

- Alaska Airlines
- Aquion Energy
- Center for Sustainable Energy
- Hawaii Gas
- Hawaiian Electric Companies
- Hitachi, Ltd.
- HNU Energy
- Holu Energy
- Hawaii State Energy Office, DBEDT
- High Technology Development Corporation

- HiVE
- Mercedes-Benz Energy
- More Than Smart
- Ohm Energy Technologies
- Pacific Biodiesel
- PV Hardware
- Sempra Renewables
- Silver Spring Networks
- Spanner Re² GmbH
- UniEnergy Technologies

GIGAwatt









MEGAwatt





Hawaiian Electric Maui Electric Hawai'i Electric Light







KILOwatt









Mercedes-Benz Energy

MICROwatt











7:00 AM REG

REGISTRATION | Founders Courtyard



CONTINENTAL BREAKFAST | Founders Courtyard

8:00

BLESSING & OPENING | Castle Theater

Sandy Baz, Director of Council Services, County of Maui

E KOMO MAI (WELCOME)

Teena Rasmussen, Economic Development Director, County of Maui **Jeanne Unemori Skog**, President & CEO, Maui Economic Development Board, Inc.

BRIDGE FROM LAST YEAR

Doug McLeod, Chair, Conference Program Committee **Jonathan Koehn,** Regional Sustainability Coordinator, City of Boulder

8:35

KEYNOTE ADDRESS

Introduction by Jonathan Koehn, Regional Sustainability Coordinator, City of Boulder

The 8 80 City: Creating Vibrant, Healthy, and Resilient Communities for All

Guillermo (Gil) Penalosa, Founder and Chair, 8 80 Cities; Chair, World Urban Parks; and President, Gil Penalosa & Associates

Amidst the challenges of population growth and shifting demographics, cities around the world are also grappling with climate change, rising obesity, traffic congestion, and a sluggish economy. We seem to be facing a "perfect storm" of threats and challenges, but in every challenge lies opportunity. How we plan, build and cultivate a healthy city life for people of all ages, abilities, and socio-economic backgrounds has never been more important than it is today.

How can we improve the quality of life for people in cities regardless of age or social status? What is the role of sustainable mobility in promoting health, happiness, and stronger local economies? Gil answers these questions while also explaining a simple and effective principle for inclusive city building: ensuring the safety and joy of children and older adults (from 8 year olds to 80 year olds) are at the forefront of every decision we make in our cities. The key is a holistic approach to tackling key urban challenges by focusing on both bold but doable actions any community can take to become stronger and more resilient in the face of change.

9:20

Q&A Discussion

Facilitated by Frank De Rego Jr., Director of Business Development Projects, Maui Economic Development Board

9:35

COFFEE BREAK AND EXHIBIT SESSION | Hitachi Pavilion, Morgado Hall

Sponsored by Hawaii Gas

10:05

RESILIENCE | Castle Theater

How do we define resilience and sustainability? What do these look like? What strategies will get us to an energy system that is resilient? The challenge of achieving decarbonized energy production and maintaining a reliable, safe, affordable, secure and resilient energy system is formidable.

Moderated by:

Ben Sullivan, Energy and Sustainability Manager, County of Kauai

Delavane Diaz, Senior Technical Leader, Electric Power Research Institute
Mark Glick, Energy Policy & Innovation Specialist, Hawaii Natural Energy Institute
Scott Seu, Senior Vice President, Public Affairs, Hawaiian Electric Company
Michelle Wyman, Executive Director, National Council for Science and Environment

11:05

A CONVERSATION WITH RANDY (OUR PUC CHAIRMAN)

Facilitated by Dave Parsons, Chief of Policy and Research, Hawaii Public Utilities Commission

Randall Iwase, Chairman, Hawaii Public Utilities Commission

11:25

WATER ENERGY FOOD SECURITY NEXUS - Connecting the Dots

We explore the nexus between agriculture production, use of water, and production of energy. With the closure of Hawaii's last sugar plantation, what role will agriculture play in energy resilience? What are the possibilities for locally produced Biomass and Biofuels? What are the tradeoffs in potential food security vs. energy security? In a global marketplace is food or energy security a myth?

Moderated by:

Jonathan Koehn, Regional Sustainability Coordinator, City of Boulder

Paul Brewbaker, Principal and Economist, TZ Economics; and Lecturer, University of Hawaii **Kyle Datta**, General Partner, Ulupono Initiative

Jeffrey Pearson, Deputy Director, State of Hawaii Commission on Water Resource Management **Rick Volner**, General Manager, Hawaiian Commercial & Sugar Company

12:10 PM



LUNCH | Founders Courtyard

Sponsored by Silver Spring Networks

EXHIBIT SESSION AND DESSERT | Hitachi Pavilion, Morgado Hall

1:40

CASE STUDY: Energy Efficiency with Hawaii Energy | Castle Theater

Presented by:

Brian Kealoha, Executive Director, Hawaii Energy/Leidos Engineering, LLC

Small businesses are the backbone of Hawaii's economic vitality and resilience. Hawaii Energy is committed to helping them lower operating costs through energy efficiency. Through programs developed specifically for small businesses, Hawaii Energy has already helped over 400 Maui County small businesses become energy efficient. We will highlight a few of the success stories who aimed for 100% renewable energy but started first with energy efficiency before moving on to PV and energy storage.

1:55

EMERGING TRENDS IN HAWAII ENERGY POLICY - Are We Sending Mixed Messages?

What market signals are policy makers sending to energy stakeholders? Is it possible to stabilize energy prices and electricity rates, reduce carbon emissions, and provide reliable, safe, affordable, and resilient energy all at the same time? What measures will policy makers implement to protect vulnerable populations?

Moderated by:

Doug McLeod, Member, DKK Energy Services LLC

Alan Arakawa, Mayor, County of Maui

Brian Kealoha, Executive Director, Hawaii Energy/Leidos Engineering, LLC

Chris Lee, House Representative and Chair of the Committee on Energy and Environmental Protection, State of Hawaii

Alan Oshima, President and Chief Executive Officer, Hawaiian Electric Company

2:55



COFFEE BREAK | Hitachi Pavilion, Morgado Hall

Sponsored by Hawaii Energy

Introducing the new shape of energy efficiency



HiVE is an integrated, high-performance energy storage solution designed from the ground up to work with any conventional solar system. HiVE's innovative adaptive technology can be scaled for a wide range of residential, industrial, smart grid, and military applications, big or small.



ENERGY EFFICIENT



COMPATIBLE



COST EFFICIENT



SCALABLE



SAFE



SUSTAINABLE

To get started on your HiVE integration, email **powerup@hiveenergysystems.com**Ask about our HiVE Power Package that includes financing and installation







3:25 CASE STUDY: Energy Storage with Holu Energy | Castle Theater

Presented by:

Theodore Peck, Chief Executive Officer and Lead Developer, Holu Energy

Two case studies of commercial on-grid microgrids operational in Hawaii with third party ownership, integrating PV and energy storage systems to create multiple value streams on both sides of the meter.

3:40 RESEARCH ON ENERGY SYSTEM RESILIENCE AT THE HAWAII NATURAL ENERGY INSTITUTE

This panel of HNEI faculty will discuss current research projects on Maui and throughout the state that are addressing grid resiliency as Hawaii continues progress towards clean energy goals. The faculty members will discuss findings from recent HNEI-led demonstration projects, grid integration studies, and plans for future projects.

Moderated by:

Sebastian (Bash) Nola, Utility Consultant

James (Jay) Griffin, Senior Energy Analyst, Hawaii Natural Energy Institute, University of Hawaii Rick Rocheleau, Director, Hawaii Natural Energy Institute, University of Hawaii Leon Roose, Esq., Chief Technologist, GridSTART Research Team, Hawaii Natural Energy Institute, University of Hawaii

4:15 EMERGING TRENDS IN ENERGY POLICY: Nuclear Energy – Old Peril or New Promise

What are the social, cultural, legal, and economic challenges of decarbonization using nuclear energy? Does nuclear energy have a role in Hawaii's energy future? We will present a critical discussion to address community concerns and fears regarding nuclear energy.

Moderated by:

Gavin Bade, Associate Editor, Utility Dive

Henry Curtis, Ililani Media

Alex Gilbert, Co-founder, SparkLibrary

5:00 - 7:00 PM NETWORKING RECEPTION | Hitachi Pavilion, Morgado Hall

Sponsored by HNU Energy

MAHALO TO OUR PROGRAM COMMITTEE

LISA BRIGGS | Regional Director of Government Affairs, 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

JAMES (JAY) GRIFFIN | Senior Energy Analyst, Hawaii Natural Energy Institute

JONATHAN KOEHN | Regional Sustainability Coordinator, City of Boulder

DOUG MCLEOD | Chair, Conference Program Committee

SEBASTIAN (BASH) NOLA | Utility Consultant

DAVE PARSONS | Chief of Policy and Research, Hawaii Public Utilities Commission



7:00 AM REGISTRATION | Founders Courtyard

CONTINENTAL BREAKFAST | Founders Courtyard
Sponsored by Holu Energy

8:00 WELCOME TO DAY TWO FROM THE PROGRAM COMMITTEE | Castle Theater

Lisa Briggs, Regional Director of Government Affairs, Sempra Renewables **Colton Ching**, Senior Vice President Planning & Technology, Hawaiian Electric Company

8:15 VIDEO PRESENTATION: "Word on the Street"

8:30 INVITED PRESENTATION

Introduction by Jeanne Skog, President & CEO, Maui Economic Development Board, Inc.

The Resilience of Scientific Integrity during Uncertain Times

Michelle Wyman, Executive Director, National Council for Science and Environment

2017 marks a shift in the political landscape that presents opportunities and challenges at all levels of government, and across all sectors. The energy sector, already rife with change, can benefit significantly from the strength that science provides. This presentation will explore the intersects and alignments between energy, science and policy, and offer insights into pursuing those.

9:00 CREATING A RESILIENT ENERGY ECONOMY

What opportunities exist to commercialize new innovative energy technology? How will this activity create jobs locally? Can innovative energy rate design and pricing help build a strong economy? How the use of incentives aid in this transition? Will expanding the electricity RPS to other areas such as other utilities or transportation (aviation, ground, and maritime) create a more resilient energy economy in the long run?

Moderated by:

Luis Salaveria, Director, Department of Business, Economic Development & Tourism, State of Hawaii

Aki Marceau, Project Design & Partnerships, Energy Excelerator **Kush Patel**, Director, Energy and Environmental Economics, Inc. **Cheryl Roberto**, Partner, Utility Transformation & Regulation, Twenty First Century Utilities

9:45 TECHNOLOGY: Is Storage the Key to Resilience

We will discuss specific storage technologies and their contribution to resiliency. Are these systems ready for deployment and cost effective? Do they provide more than one function on the grid? Can customers provide support for their own electrical needs through storage, especially in a Distributed Energy Resources (DER) scenario?

Moderated by:

Fred Redell, Energy Commissioner, Office of Economic Development, County of Maui

Lorraine Akiba, Commissioner, Hawaii Public Utilities Commission **Erica He,** Advisor, Business Development, Energy Solutions, Innovation Core SEI Inc. **Michael Reiley,** President, HNU Energy

COFFEE BREAK AND EXHIBIT SESSION | Hitachi Pavilion, Morgado Hall Sponsored by the Hawaii Natural Energy Institute

CASE STUDY: World's Largest Second Use Battery Storage | Castle Theater

Presented by:

10:30

11:00

Boris Von Bormann, Chief Executive Officer, Mercedes-Benz Energy Americas, LLC

Daimler AG, The Mobility House AG and GETEC have joined forces to develop a 13 MWh battery storage project in Germany using a total of 1000 battery systems from second-generation smart for two electric drive cars. This world's largest 2nd use battery storage went into operation on the German primary balancing market at the end of 2016. The process will not only help to stabilize the grid as more electricity is fed in from fluctuating renewable energy sources, but can help to improve the environmental footprint of electric vehicles and make e-mobility more cost efficient.

11:15

TECHNOLOGY: Role of the Smart Grid

How will the "smart grid" add to grid stability and resiliency? Will the "smart grid" increase exposure to security breaches and what mitigation measures are needed to reduce risk? How can we secure customer's personal information, including energy usage patterns?

Moderated by:

Don Reeves, Chief Technology Officer, Silver Spring Networks

Colton Ching, Senior Vice President Planning & Technology, Hawaiian Electric Company Rajit Gadh, Professor & Director, UCLA - WINMEC & Smart Grid Energy Research Center Kazuyuki Takada, Director, Smart Community Department, New Energy and Industrial Technology Development Organization (NEDO)

Makoto Watanabe, Executive Director, New Energy and Industrial Technology Development Organization (NEDO)

Joshua Wong, President & CEO, Opus One Solutions

12:00 PM



LUNCH | Founders Courtyard

Sponsored by Hawaii State Energy Office

EXHIBIT SESSION AND DESSERT | Hitachi Pavilion, Morgado Hall

1:30

CASE STUDY: Savings for Consumers Derived from AMI & Smart Grid Connectivity | Castle Theater

Presented by:

Don Reeves, Chief Technology Officer, Silver Spring Networks

Silver Spring Networks will share details on how its utility customers deliver savings to consumers via AMI and Smart Grid deployments. The case study will both summarize findings, as well as review the technology and process improvements required to deliver the savings.

1:45

TECHNOLOGY: Innovations in Transportation

What steps can be taken to create and facilitate a resilient transportation sector? Are there unique issues for islands? What are the challenges and expectations in creating a resilient system? What are the costs/benefits of hydrogen, biomass and other alternatives?

Moderated by:

Rick Rocheleau, Director, Hawaii Natural Energy Institute, University of Hawaii

Murray Clay, Managing Partner, Ulupono Initiative

Bob King, President, Pacific Biodiesel

Guillermo (Gil) Penalosa, Founder and Chair, 8 80 Cities; Chair, World Urban Parks; and President, Gil Penalosa & Associates

Carol Sim, Director of Environmental Affairs, Alaska Airlines

2:45



COFFEE BREAK | Hitachi Pavilion, Morgado Hall

Sponsored by High Technology Development Corporation

3:15 CASE STUDY: Alaska Airlines - How We Track Sustainability | Castle Theater

Presented by:

Carol Sim, Director of Environmental Affairs, Alaska Airlines

Alaska Airlines' objective is to be one of the most respected U.S. airlines by our customers, employees, and shareholders. It is important to us that we achieve our objectives as a socially responsible, safe, customer-centered, and competitive company that values not just our performance, but also our people, our community, and our environment. This presentation will discuss why sustainability is important to Alaska Airlines, how we determine what are the most important metrics to track, data collection methods and sustainability reporting.

3:30 MOBILITY: Getting a Move On

Air, ground, and marine transportation represent more than two thirds of the fossil fuel consumption in Hawaii. We will explore and discuss the opportunities and challenges in the transportation sector. What role can land use and urban planning play in reducing reliance on fossil fuels? What companies are leading in this area? What opportunities are there in the electrification of ground transportation?

Moderated by:

Jeff Mikulina, Chief Executive Officer, Blue Planet Foundation

Michael Clay, Director, Urban and Regional Planning Program, Brigham Young University Laura McDonald, President, Sunrise Strategies Group Michael McLean, Deputy Director, Department of Planning, County of Maui Joelle Simonpietri, Program Manager for Energy Research, Applied Research Laboratory, University of Hawaii

4:30 CLOSING REMARKS

4:45 - 6:30 PM NETWORKING RECEPTION | Founders Courtyard

FRIDAY | MARCH 24 - Optional Addition

9:30 AM - 12:30 PM MAUI SUSTAINABILITY WORKSHOP | Maui Research and Technology Park

Hosted by Maui Economic Development Board (MEDB), Maui Brewing Company and Maui High Performance Computing Center

Maui's energy challenges have triggered creative solutions in business, military operations, and education. In this half-day of site visits at the Maui Research and Technology Park in Kihei, you will see and hear about the significant initiatives at the Maui High Performance Computing Center and the award-winning Maui Brewing Company.

Subject to availability. Register online at www. mauienergyconference.com or visit the registration desk to sign up. Cost is \$25 per person, lunch is included. Please meet in Maui Brewing Company's parking lot at 9:15 a.m. Comfortable attire and footwear recommended.





LORRAINE AKIBA | Commissioner, Hawaii Public Utilities Commission

Lorraine Akiba was appointed to the Hawaii Public Utilities Commission in January 2012. She worked previously in private practice as a law partner at McCorriston Miller Mukai MacKinnon LLP and Cades Schutte Flemming & Wright LLP; she headed the Environmental Practice Groups at both law firms with an emphasis on environmental and natural resources law. Lorraine previously served as the Director of the State of Hawaii Department of Labor and Industrial Relations and as Chair of the State of Hawaii Environmental Council. She is currently a member of the Advisory Council to the Board of Directors of the Electric Power Research Institute and has also held leadership positions in a number of professional organizations. A member of the Board of Directors of the National Association of Regulatory Utility Commissioners, Lorraine serves on its Energy Resources and Environment Committee.



ALAN ARAKAWA | Mayor, County of Maui

Alan Arakawa served as Maui County Mayor from 2002 to 2006 and was re-elected in 2011 and 2014. Mayor Arakawa was born in Wailuku, Hawai'i in 1951, graduated from Maui High School and attended the University of Hawaii at Manoa as a business major. He entered civil service in 1984 in the wastewater division of the Department of Public Works. He was elected to the Maui County Council in 1994 and was re-elected in 1996 and 2000. Mayor Arakawa's background in environmental management, coupled with his passion for sustainability, has guided him in his efforts to develop renewable energy sources in Maui County. Mayor Arakawa believes that the our islands' energy future must include locally produced sources of energy, including solar, wind, biofuel and other types of renewable energy. He feels strongly that the billions of dollars spent annually by Hawaii residents on imported oil can be redirected to productive use by our residents.



GAVIN BADE | Associate Editor, Utility Dive

Gavin Bade is a journalist currently focused on energy, electric utilities and the environment. He was the editor-in-chief of Georgetown's alt-weekly newspaper "The Georgetown Voice" and worked for a number of media publishers, including The American Prospect, NPR. the New America Foundation and WGVU. He is the author of numerous articles about the energy industry and related subjects. Currently, Gavin is working for Industry Dive where he manages daily operations of their Utility Dive website, an electricity sector trade publication. Gavin's longterm goal is to become an electric industry thought leader, bringing the best insights and actionable information to utilities, vendors. activists and policymakers.

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 (SDG&E) or Southern California Gas Company (SoCalGas), and Sempra Renewables, LLC is not regulated by the California Public Utilities Commission.

🗃 👫 🕈 🏗 🚗 SPEAKER PROFILES



PAUL BREWBAKER | Principal and Economist, TZ Economics; and Lecturer, University of Hawaii

Paul Brewbaker is the Principal of TZ Economics, a Hawaii consultancy. His background in research on the Hawaii economy and financial risk analytics stems from an affiliation with Bank of Hawaii of 25 years, concluding in 2009 as its Chief Economist. He is a graduate of Stanford University, did graduate work at the University of Wisconsin, and received his Ph.D. from the University of Hawaii. Paul has lectured extensively in undergraduate economic theory, international, and financial economics. He is a member of the American Economic Association, the American Finance Association, and the National Association for Business Economics from which he recently received professional designation as a Certified Business Economist.



LISA BRIGGS | Regional Director of Government Affairs, Sempra Renewables

Lisa Briggs has been with Sempra in a variety of roles since 2008. Prior to joining Sempra, she served as Policy Advisor to the Mayor of the City of San Diego, where she helped shape the administration's policies on labor, employment and energy issues. Her background includes a diverse array of public interest, advocacy and government positions. Prior to joining Mayor Sanders' staff, Lisa served as CEO of the San Diego County Taxpayers Association. Lisa is an attorney with an emphasis in utility regulatory law, which served her well in her roles at the County of San Diego and SBC Communications (now AT&T). She has held several volunteer leadership positions in community organizations such as Senior Community Centers of San Diego, where she served as Board Chair.



COLTON CHING | Senior Vice President, Planning & Technology, Hawaiian Electric Company

At HECO, Colton Ching oversees the areas of Advanced Planning, System Planning, Transmission and Distribution Planning, Grid Technology, Forecasting, and Asset Management. He previously served as Vice President of Energy Delivery as well as System Operation and Planning. He has been with Hawaiian Electric for more than 25 years, serving in various roles in engineering, planning, strategy, operations, and construction. In addition to his work at HECO, Colton serves on the Corporate Board of Directors of the Boys and Girls Club of Hawaii, the Executive Board of the Aloha Council Boy Scouts of America, and on the State of Hawaii Civil Defense Advisory Council. Colton was born and raised on Maui and is a graduate of the University of Hawaii.



MICHAEL CLAY | Director, Urban and Regional Planning Program, Brigham Young University

Michael Clay is an associate professor and director of the Urban and Regional Planning Program within the Geography Department at Brigham Young University. Dr. Clay was formerly a professor in the graduate Community Planning program at Auburn University and served as the founding director of the Auburn University Urban Modeling Lab. His research focuses on improving the practice of local government land use and transportation planning. Professor Clay has published his work extensively in leading academic journals and his work has been recognized by the National Science Foundation. Dr. Clay has also served as the Senior Scientific Advisor on Land Use Modeling to Citilabs, the world's largest provider of transportation planning software and is a Research Associate with the Minetta Transportation Institute.



MURRAY CLAY | Managing Partner, Ulupono Initiative

Murray Clay serves as managing partner of the Ulupono Initiative, a Hawaii-focused for-profit impact investment firm, and serves on the Oahu Economic Development Board. Prior to joining Ulupono, Murray served as deputy chief investment officer of SDS Management LLC in Connecticut. He has more than a decade of experience in managing hedge fund and private equity portfolios. He led due-diligence as well as negotiated and structured direct investments in many industries, including energy, natural resources and biotechnology. Prior to his finance career, Murray served as an intelligence officer for U.S. Air Force Special Operations Forces for five years.



HENRY CURTIS | Executive Director, Life of the Land

Henry Curtis is an environmentalist, social justice advocate, community organizer, researcher, videographer, director, producer, peer reviewer and community facilitator. Since 1995 Henry has served as the Executive Director of Life of the Land, Hawaii's own environmental and community action group advocating for the people, the culture, and the `aina since 1970. Henry believes that the path forward requires a true analysis of varied alternatives, examining life cycles, externalities and holistic links between varied fields. Henry is also with Ililani media.



KYLE DATTA | General Partner, Ulupono Initiative

Kyle Datta is general partner of Ulupono Initiative, a Hawaii-focused for-profit impact investment firm. He is working to improve the quality of life in Hawaii through sustainable investments in three key areas: locally produced food, renewable energy, and waste reduction. Previously, Kyle was the CEO of U.S. Biodiesel Group, a national biodiesel firm funded by private equity; Managing Director of Research and Consulting at the Rocky Mountain Institute; and a Vice President at Booz Allen Hamilton, where he served as managing partner of the firm's Asia energy practice and head of the U.S. utilities practice. He is co-author of "Winning the Oil End Game" and "Small is Profitable," and serves on the board of directors for Blue Planet Foundation, Hawaii BioEnergy and Parker Ranch.



FRANK DE REGO JR. | Director of Business Development Projects, Maui Economic Development Board, Inc.

Frank De Rego has over 30 years of experience in education and the nonprofit sector. Prior to joining MEDB, he developed curricula, trained and coordinated graduate engineering teaching assistants, and, for a time, was national coordinator at Purdue University for a program called Engineering Projects in Community Service. At MEDB, Frank has provided leadership in the development of the Maui County Model for Energy and Water in collaboration with the Millennium Institute. He earned a bachelor's degree from the University of San Francisco with a double major in Philosophy and Religious Studies; a Master's Degree in Religious Studies from Katholieke Universiteit Leuven in Leuven, Belgium; and a Master's of Science Degree in Sociology from Purdue University, West Lafayette, Indiana.

Hawaii Natural Energy Institute

Leading Hawaii's research, development, testing, and evaluation renewable energy, energy efficiency, and grid-enabling technologies.

Core Functions

- Research & Development
- Technology Validation & Implementation
- Analysis & Modeling
- State Energy Policy Support
- Education and Training

Focus Areas

- Renewable Power Generation
- Grid Integration
- Fuel Cells & Battery Technology
- Energy Efficiency & Transportation
- Alternative Fuels

Strategic Objectives

- Identify cost-effective strategies to maximize renewables while maintaining grid reliability and stability
- Inform policy decision makers and stakeholders with independent, objective, quantitative analyses
- Testing and demonstration of technologies and systems to enable integration of renewable generation resources







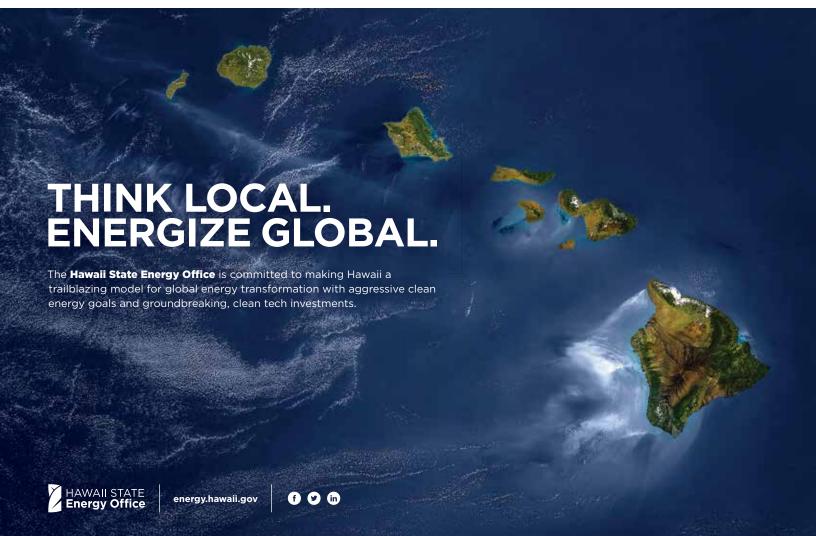
DELAVANE DIAZ | Senior Technical Leader, Electric Power Research Institute

Dr. Delavane Diaz is a Senior Technical Leader in the Energy and Environmental Analysis program at the Electric Power Research Institute (EPRI), focused on the implications of climate policy on the electric sector. Currently she leads research initiatives on climate resiliency and risk management strategies as well as the social cost of carbon. Delavane joined EPRI in 2008, working on research projects related to decarbonization policy proposals and generation capacity planning. She is a distinguished graduate of the US Air Force Academy with a B.S. in Astronautical Engineering. Delavane earned a M.Sc. in Environmental Change and Management at the University of Oxford as a Rhodes Scholar and a Ph.D. in Management Science and Engineering at Stanford University.



RAJIT GADH | Professor and Director, UCLA - WINMEC & Smart Grid Energy Research Center

Dr. Rajit Gadh is Professor of the Henry Samueli School of Engineering and Applied Science at UCLA, Founder and Director the Smart Grid Energy Research Center (SMERC) and Founder and Director of the UCLA WINMEC Consortium. Dr. Gadh's current research interests include modeling and control of Smart Grids, wireless monitoring and control of distribution and consumer-premise power grids, Electric Vehicle aggregation, modeling and control, automation and home area network for Demand Response, and Microgrid modeling and control. Dr. Gadh is author of over 150 articles in journals and conference proceedings and four patents. He is a Fellow of the American Society of Mechanical Engineers and has received the National Science Foundation (NSF) CAREER award and Research Initiation Award, among many other accolades.





ALEX GILBERT | Co-Founder, SparkLibrary

Alex Gilbert is the Co-Founder of SparkLibrary where he leads product design, conducts analysis, and oversees market outreach. SparkLibrary is an Energy Research Platform that enables energy policy professionals to perform faster and higher quality research. It is a one-stop shop that collects, standardizes, and organizes energy data and information. Previously, Alex analyzed electricity, natural gas, and oil markets for private sector clients at Haynes and Boone. He has been published in multiple academic journals, including Nature, Nature Climate Change, Environmental Science & Technology, and Energy. Alex has a Masters of Energy Regulation and Law and a Certificate in Climate Law from Vermont Law School and a BA in Environmental Studies and International Relations from Lake Forest College.



MARK GLICK | Specialist on Energy Policy & Innovation, Hawaii Natural Energy Institute

At HNEI, Mark Glick oversees energy policy and innovation and coordinates State and University of Hawaii assets and resources towards fulfillment of Hawaii's ambitious energy policy objectives. Glick served five years as Administrator of the Hawaii State Energy Office in charge of Hawaii's internationally renowned clean energy transformation and innovation efforts. During his tenure as Energy Administrator, he oversaw Hawaii's 2015 interim renewable portfolio and energy efficiency portfolio standards exceeded by 8 percentage points as well as many other successes. He also spearheaded the statewide Programmatic Environmental Impact Statement process to assist reaching the goals of Hawaii's Clean Energy Initiative, and oversaw all energy related regulatory filings and testimony before the U.S. Congress and the Hawaii State Legislature on behalf of DBEDT.



JAMES (JAY) GRIFFIN | Senior Energy Analyst, Hawaii Natural Energy Institute

Jay Griffin joined the Hawaii Natural Energy Institute faculty in 2009, working on several research projects analyzing renewable grid integration challenges in Hawaii. Starting in 2012, he took a leave of absence from HNEI to serve as the Chief of Policy and Research at the Hawaii Public Utilities Commission. He led the HPUC's team of researchers and economists assisting Commission decision-making with energy policy research and analysis. In July, he returned to his faculty position to lead research initiatives to support the state's clean energy goals, and develop a technology testing and demonstration program for emerging distributed energy resource technologies.



ERICA HE | Advisor, Innovation Core SEI Inc.

Erica He is the Advisor, Business Development, Energy Solutions, at Innovation Core SEI Inc., which is the US subsidiary of Sumitomo Electric Industries. Erica is the former Vice President of Innovation Core SEI Inc. Erica leads the North America market development for Sumitomo Electric's Smart Energy Solutions business, with a focus on energy storage. Prior to Sumitomo, Erica was the Business Development Manager at SANYO North America, where she developed new businesses and strategic partnerships in the areas of renewable energy, smart grid and consumer electronics. Erica holds a MS in Electrical Engineering from Columbia University and a BS in Electric Engineering from University College London.



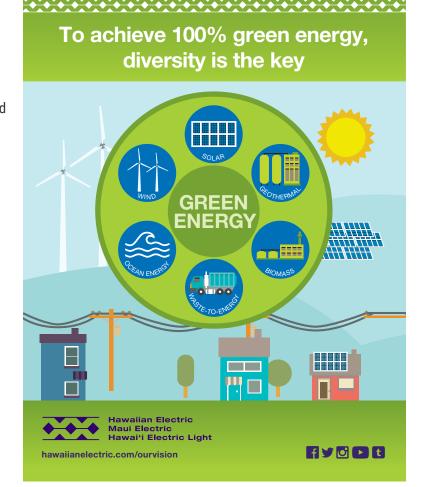
RANDALL IWASE | Chair, Hawaii Public Utilities Commission

Randall Iwase was appointed as the Chair of the Commission by Governor Ige in January 2015 for a term to expire on June 30, 2020. Prior to his appointment to the Commission, Chair Iwase served as the Chair of the Hawaii State Tax Review Commission, Chair of the Hawaii Labor and Industrial Relations Appeals Board, and as Executive Director of the Aloha Tower Development Corporation. He also served as the Supervising Deputy Attorney General where his division provided legal counsel to the Department of Commerce and Consumer Affairs and the Public Utilities Commission. Chair Iwase is a former state senator and former Honolulu city council member.



BRIAN KEALOHA | Executive Director, Hawaii Energy/Leidos Engineering, LLC

Brian Kealoha has been involved in the energy sector for over 20 years and serves as the Executive Director of Hawaii Energy, which helps educate and reward island families and businesses about the benefits of energy efficiency and conservation. He has managed a number of innovative projects. Brian also previously launched and managed the Hawaii operations of OpTerra **Energy Services/Chevron Energy** Solutions, serving as Regional Director for eight years. He also spent many years developing and implementing energy programs at Pacific Gas & Electric, Avista Utilities, and Maui Electric Company, Brian is a Certified Sustainability Design Professional, Certified Energy Manager, Certified Lighting Efficiency Professional, and Certified Demand Side Manager from the Association of Energy Engineers.





ROBERT KING | President and Founder, Pacific Biodiesel Technologies, LLC

A certified diesel mechanic with a background in agricultural engineering, Robert King founded Pacific Biodiesel Technologies in 1995. With more than 70 employees statewide, Pacific Biodiesel is Hawaii's award-winning and internationally recognized producer of renewable fuels and the only commercial biofuel producer in the state. Created to alleviate the disposal of waste cooking oil at Maui's landfill, Pacific Biodiesel is now the oldest commercial biodiesel company in the U.S. The company has built 13 biodiesel plants in the U.S. and Japan and its biodiesel model has become the industry standard. The company's refinery is located on the Big Island, with a nameplate production capacity of 5.5 million gallons annually. King is spearheading the company's many sustainable, agriculture-related projects demonstrating that community-based farming for food and fuel expands the ways Hawaii can meet its renewable energy goals.



JONATHAN KOEHN | Regional Sustainability Coordinator, City of Boulder

Jonathan Koehn oversees the city of Boulder's sustainability agenda, specifically in relation to climate action and waste reduction, but more broadly across the complete spectrum of the city's sustainability goals. Most recently, Koehn was the Environmental Affairs Manager for the city. He came to Boulder with more than 10 years of experience working with state, regional, and local governments and its constituencies domestically and internationally to develop strategic and tactical solutions to energy, economic and climate challenges. Since 2009, Koehn has been focused on the various aspects of Boulder's energy efforts, and primarily, the city's municipalization exploration project.



CHRIS LEE | State Representative, Hawaii State Legislature

State Representative Chris Lee serves an Assistant Majority Leader and Chairman of the Energy and Environmental Protection Committee in the Hawaii State Legislature. First elected in 2008, he has since authored Hawaii's Climate Adaptation Initiative, the nation's first 100% renewable portfolio standard, a net-zero clean energy mandate for all public schools and universities, policies laying the groundwork for a more distributed electric grid, and has been leading efforts to reform the utility business and regulatory models. Rep. Lee serves on the boards of several community non-profit organizations and volunteers his time in the community. He is a graduate of Oregon State University.



AKI MARCEAU | Project Design & Partnerships, Energy Excelerator

Aki Marceau works closely with Energy Excelerator's community partners and portfolio companies to co-design Demonstration Projects across Hawaii and the Asia Pacific. Energy Excelerator is partnering with dozens of local businesses to implement 28 projects deploying new and innovative technologies. Previously, Aki served as land use and sustainability manager for the Honolulu Authority for Rapid Transportation (HART) and transportation planner for Parsons Brinckerhoff, where she developed integrated solutions for sustainable development through stakeholder coordination, geospatial investigation, and National Environmental Policy Act (NEPA) documentation.



LAURA MCDONALD | President, Sunrise Strategies Group

Laura McDonald leads a public affairs, governmental relations and communications firm specializing in the permitting and licensing of energy infrastructure projects. Previously, Laura worked for 16 years at San Diego Gas & Electric (SDG&E) where she held various leadership positions. In 2004, Laura was appointed as Project Manager for the Sunrise Powerlink, a 117-mile, 500-kilovolt electric transmission line, costing nearly \$2 billion. In February 2016, as Director of Clean Transportation and Advanced Technology Integration under Laura's leadership, the California Public Utilities Commission approved SDG&E's innovative Electric Vehicle Grid-Integration application, a historic initiative that allows SDG&E to build, own and operate 3,500 grid-integrated electric vehicle charging stations throughout its service territory.



MICHELLE CHOUTEAU MCLEAN | Deputy Planning Director, County of Maui

As Deputy Planning Director, Michele Chouteau McLean is responsible for administrative and discretionary land use permits, enforcement of land use requirements, community planning and plan implementation. She also serves at the Chair of the Kahoolawe Island Reserve Commission, the state panel responsible for the management and control of the island of Kahoolawe and its surrounding waters. Michele has a bachelor's degree in Political Science from Vassar College and serves on the board of the Maui Food Bank.



DOUG MCLEOD | Founder, DKK Energy Services LLC; Program Committee Chair, Maui Energy Conference; Chair of the Energy Committee of the Maui Tomorrow Foundation

Doug McLeod has been active in renewable energy and environmental issues for more than 25 years as an attorney, developer and former Energy Commissioner for the County of Maui. As an attorney on the mainland, Doug represented regulated and unregulated energy companies with an emphasis on the Clean Air Act compliance, remediation and acquisitions. After moving to Hawaii in 2002, he developed several energy-efficient commercial buildings on Maui and the first Feed-in Tariff system in Hawaii. While serving as Energy Commissioner for the County of Maui, he oversaw the development and installation of solar PV at 221 County facilities including the largest solar PV system on Maui. He also led the effort to install the first EV quick charger on Maui. Currently Doug offers specialized advice on EV and renewable energy issues for clients of DKK Energy Systems.



JEFFREY MIKULINA | Chief Executive Officer, Blue Planet Foundation

Jeff Mikulina is the Chief Executive Officer of the Blue Planet Foundation, a nonprofit organization whose mission is to clear the path for 100% clean energy in Hawaii and beyond. Through collaboration and advocacy, Blue Planet champions scalable policies and programs to transform Hawaii's energy systems to clean, renewable energy solutions. The organization led the successful public campaign to make Hawaii' the first state in the nation with a 100% renewable energy mandate. Jeff's interests include disruptive technology, public policy, and impact of social norms on behavior. He received a Masters of Science degree in engineering from the University of Illinois at Urbana-Champaign studying decision theory.



SEBASTIAN (BASH) NOLA | Utility Consultant

Bash Nola is a renewable energy and utility consultant who brings more than 45 years of management experience in the energy industry to the conference. He spent 31 years of his career in key management positions at the Southern California Edison Company, the third largest investor owned electric utility in the nation. Nola managed and directed the activities of Edison's generation planning function and their renewable and alternative generation resource program. Today, he serves as an independent consultant to the wind and renewable energy industry and has been involved in the development of Hawaii's first wind generating facilities. Bash consults for Blue Planet Foundation and has participated in the State of Hawaii PUC's Reliability Standards Working Group and in HECO's Integrated Resource Planning Process as a PUC nominated Advisory Group member.



ALAN OSHIMA | President and Chief Executive Officer, Hawaiian Electric Company

Prior to being named President and CEO of HECO in 2014, Alan Oshima served at HEI, Hawaiian Electric's parent company, as executive vice president for corporate and community advancement and president of the HEI Charitable Foundation. Previously, Alan served as senior vice president, general counsel and corporate secretary of Hawaiian Telcom from 2005 to 2008 and later as a senior adviser and director helping the company successfully emerge from reorganization in 2010. Alan also founded the law firm of Oshima Chun Fong & Chung and, prior to that, practiced law with Carlsmith Ball. He has been recognized by the Hawaii State Bar Association, the Hawaii Institute of Public Affairs and the Public Schools of Hawaii Foundation for his leadership and commitment to improving public education in Hawaii.



DAVID PARSONS | Chief of Policy and Research, Hawaii Public Utilities Commission

David Parsons is the Chief of Policy and Research at the Hawaii Public Utilities Commission, where he is responsible for policy analysis and strategic planning for achievement of the state's aggressive clean energy goals. He oversees the Commission's proceedings on renewable energy procurement, distributed energy resources integration, demand response, long-term system planning, grid modernization, and utility business model transformation. David also directs the Commission's economic and policy research and development, and manages ongoing financial and economic evaluation of regulated utility investments and operations in the electric, gas, water, telecommunications, and transportation sectors.



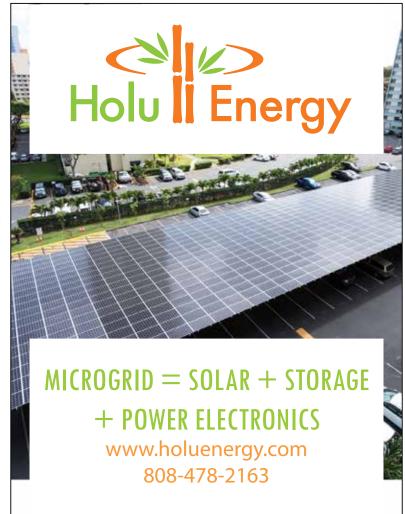
KUSH PATEL | Director, Energy and Environmental Economics, Inc.

Kush Patel leads his company's work for New York's Reforming the Energy Vision (REV) initiative on retail rate design, net energy metering, cost-benefit analysis, and distributed energy resource business models as well as general wholesale market analysis. He is also the primary lead on work with technology companies, project developers, utilities, asset owners, investors, financiers, and other entities on a variety of strategic, asset valuation, market analysis, and financial issues in both the wholesale and retail markets. Previously, Mr. Patel was the Director of Corporate Development and Project Finance at a rapidly growing solar and energy efficiency engineering, procurement, and construction company. Mr. Patel has project financing experience for residential to utility scale solar PV projects along with other finance activities such as debt/equity structuring and revolving lines of credit.



JEFF PEARSON | Deputy Director, State of Hawaii Commission on Water Resource Management

At the State of Hawaii Department of Land and Natural Resources Commission on Water Resource Management, Jeff Pearson and a staff of about 20 are responsible for administering and implementing the State Water Code, which was created by the 1987 Hawaii State Legislature. The Water Commission's mission is to protect and enhance the water resources of the State of Hawaii, both surface and ground water, through responsible management. Jeff also oversees the Water Commission. Previously, Jeff was employed at the County of Maui's Department of Water Supply as Head of Capital Improvement Projects. Jeff has also worked in design consulting with Maui Land and Pineapple managing their water sources, and in government. He has over 20 years of water and water related experience in Hawaii.





THEODORE (TED) PECK | Chief Executive Officer and Lead Developer, Holu Energy

Ted Peck has more than 25 years of senior leadership experience in business, government, and energy management, including development of the Hawaii Clean Energy Initiative as the state's energy administrator. He led energy planning, shaping of the state's approach to renewable energy permitting and facilitation as well as other strategic initiatives and programs. In 2010, Ted re-entered the private sector where he continued to focus on reducing the state's dependency on fossil fuel through transformation, recapitalization, and the use of renewable energy. He is a seasoned expert in energy management and understands the unique challenges of Hawaii's energy landscape. Ted was selected as one of state's "20 Leaders For the Next 20 Years" by Hawaii Business Magazine in 2010.



GUILLERMO (GIL) PENALOSA | Founder and Chair of the Board, 8 80 Cities, and Chair of the Board, World Urban Parks

Gil Penalosa is passionate about cities for all people, advising decision makers and communities on how to create vibrant cities and healthy communities for everyone regardless of age, gender and social, economic, or ethnic background. His focus is on the design and use of parks and streets as great public places, as well as sustainable mobility. Gil's internationally recognized non-profit organization 8 80 Cities, based in Canada, was created with the philosophy that if you create a great city for an 8 year old and an 80 year old, you will create a successful city for all people. Gil also runs his own international consulting firm, Gil Penalosa & Associates; his leadership and advice is sought out by many cities and organizations. Gil has worked in over 250 different cities in all continents. Gil is also chair of the board of World Urban Parks, the international representative body for the city parks, open space and recreation sector.



FRED REDELL | Energy Commissioner, County of Maui

Fred serves the Maui County Mayor as the Energy Commissioner, the County's advocate in reaching the energy and sustainability goals. He previously served as the Managing Director of Abengoa Solar LLC. Prior to that, he owned an engineering company specializing in energy facility development. Fred has worked in several roles over his career including operations, engineering and project management. He is a graduate from the University of Illinois, Chicago with a Bachelor of Science degree in Mechanical Engineering where he graduated with highest honors. His graduate work was at the University of California, San Diego, where he was a Graduate Student Researcher at the Center for Energy and Combustion Research. Fred holds a professional engineering license in California.



DON REEVES | Chief Technology Officer, Silver Spring Networks

Don Reeves joined Silver Spring Networks in 2005 and brings over 25 years of experience in high-technology product development to his role as Chief Technology Officer. During his time at Silver Spring, Don has led the Software Engineering team to develop the UtilitylQ™ product suite, launched the company's hosting business, led the worldwide Delivery organization, and most recently led the R&D and Managed Services teams. Don has provided technical and implementation leadership across many of the company's key accounts including several utilities such as Florida Power and Light, and Pacific Gas & Electric. Before joining Silver Spring Networks, Don served as Vice President of Engineering at Black Pearl where he managed the software development, support and services teams.



MICHAEL REILEY | President, HNU Energy

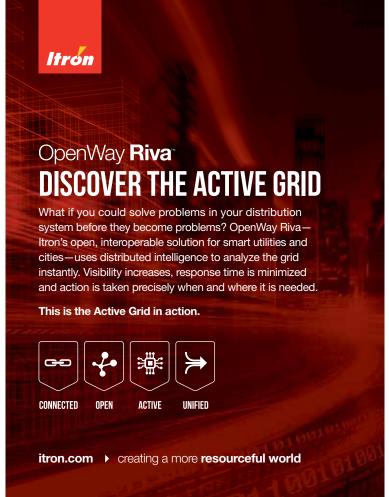
Dr. Reiley has been the president of HNU Energy since 2009. HNU is a Maui-based professional engineering and construction firm, delivering energy efficiency, renewable generation, and energy storage products and services throughout Hawaii and the Pacific Rim. Dr. Reiley has served on numerous corporate and

non-profit boards including the Maui Economic Development Board (2002-2007) and the University of Hawaii Maui College Chancellor's Advisory Council (2010-Present). Dr. Reiley holds a Ph.D. in Electrical Engineering (UH Manoa), a Master of Science degree in Optics, and a Bachelor of Science degree in Physics.



CHERYL ROBERTO | Partner, Utility Transformation & Regulation, Twenty First Century Utilities

Cheryl Roberto has broad expertise in utility operations, energy regulation and public policy. Prior to joining TFC, she led the Environmental Defense Fund (EDF) Clean Energy Program, a national initiative dedicated to modernizing the U.S. energy infrastructure through regulatory reform. A former Commissioner on the Public Utilities Commission of Ohio (PUCO), she served as Co-Chair of the 2012 National Electricity Forum. In 2013, Cheryl received the Inspiring Efficiency Leadership Award presented by the Midwest Energy Efficiency Alliance as an individual within a 13-state region who has demonstrated exceptional leadership in support of



energy efficiency. Prior to serving as a Commissioner, she was Director of the City of Columbus, Ohio Department of Public Utilities where she led a team of over 1,300 employees. Cheryl is also an experienced environmental litigator who has served as an Ohio Assistant Attorney General.



RICHARD ROCHELEAU | Director, Hawaii Natural Energy Institute

Dr. Rocheleau has over 35 years of experience in renewable energy, with an emphasis in the areas of photovoltaics, hydrogen technology and fuel cells. Following his graduate work, Dr. Rocheleau spent eight years at the Institute of Energy Conversion working on the low-cost manufacture of thin film photovoltaics. He joined the faculty of the Hawaii Natural Energy Institute at the University of Hawaii at Manoa in 1988 and was appointed Director in 2000. Under his direction, the Institute has led the development of several public-private partnerships focused on the development, testing and evaluation of alternative energy technologies. Current projects include the Maui Smart Grid Demonstration program, evaluation of grid scale Li-ion battery energy storage systems for grid management, and testing of emerging photovoltaic technologies.



LEON ROOSE | Faculty Specialist, Hawaii Natural Energy Institute

Leon Roose joined the Hawaii Natural Energy Institute in 2012 as a faculty Specialist where he has spearheaded the formation of GridSTART (Grid System Technologies Advanced Research Team), an HNEI research team focused on the integration and analysis of energy technologies and power systems, including smart grid and micro grid applications. Previously, he was with the Hawaiian Electric Company for 19 years serving in numerous management roles, most recently directing the System Integration Department. His career at Hawaiian Electric has included management responsibilities for renewable energy planning and integration, smart grid planning and projects, distribution planning, transmission planning, and generation resource planning. Leon is also a licensed attorney and worked in private law practice in Hawaii.



LUIS SALAVERIA | Director, State of Hawaii Department of Business, Economic Development and Tourism (DBEDT)

As director for DBEDT since 2014, Luis Salaveria leads the Department's efforts to achieve a Hawaii economy that embraces innovation and is globally competitive and dynamic, providing opportunities for all Hawaii's citizens. His responsibilities include the development of broad policy determinations to stimulate opportunities that offer the most immediate promise of expanding our local economy. Prior to his appointment as DBEDT Director, Salaveria served as the state's deputy director of finance for the State Department of Budget and Finance. He has extensive experience in the development and execution of multi-billion dollar budgets dealing with complex situations, which result in positive financial and organizational outcomes. Salaveria brings more than 20 years of public and private sector experience to the position.



SCOTT SEU | Senior Vice President, Public Affairs, Hawaiian Electric Company

Scott Seu leads Hawaiian Electric's engagement with the community, media, government, and legislature. He joined Hawaiian Electric in 1993 and has held numerous positions across the company, including in the areas of environmental management, customer installations, distributed generation and renewable energy resource development. Prior to his current role, he served as Vice President of System Operation overseeing the operation of the electric system. Scott also serves on the boards of the Bishop Museum and Hale Kipa, a non-profit organization serving at-risk youth and their families. Scott is a graduate of the Kamehameha Schools, and received Bachelor's and Master's degrees in mechanical engineering from Stanford University.

🖼 👫 ♥ 🍈 🚗 SPEAKER PROFILES



CAROL SIM | Director of Environmental Affairs, Alaska Air Group

Carol Sim has been instrumental in developing Alaska Air's formal sustainability program and establishing emission reduction goals. She manages all aspects of environmental regulatory compliance, property assessments and remediation programs. Ms. Sim leads Alaska's alternative fuels and carbon strategies. Carol project managed Alaska's 75 biofuels flights in 2011 and in 2016. She is a current member of the Sustainable Aviation Fuels Users Group (SAFUG) and the Washington State Aviation Biofuels Work Group. Ms. Sim has a B.S. in Renewable Natural Resources from the University of California, Davis and over 30 years' experience managing complex environmental compliance issues in consulting, government, and industry.



JOELLE SIMONPIETRI | Program Manager, University of Hawaii Applied Research Laboratory

Joelle Simonpietri is the program manager for energy research at the University of Hawaii's Applied Research Laboratory, and administers federal research contracts performed by the University of Hawaii in wave energy testing, microgrid innovations, waste to energy, and biofuels. She also a member of the advisory committee for the Federal Aviation Administration-funded Aviation Sustainability Center of Excellence at Washington State University and the convenor of the public-private Commercial Aviation Alternative Fuel Initiative's regional focal for Hawaii. She recently completed eight years at the U.S. Department of Defense's Pacific Command Headquarters, where she managed multi-service energy innovation and experimentation programs.



BEN SULLIVAN | Energy and Sustainability Manager, County of Kauai

Ben Sullivan works for Kauai Mayor Carvalho to help shape local energy projects and policy. Ben also serves as Vice-chair of the Hawaii Clean Energy Initiative Advisory Board, Co-chair for the Aloha+ Challenge Measures Project, and is an active participant in the Kauai Climate Literacy Initiative. Previously, he was Strategic Planning Chair on Kauai Island Utility Cooperative's Board of Directors. Ben worked for 15 years in architecture & green building prior to getting involved in clean energy as a community advocate in 2005. He aspires to one day bringing his energy and public sector experience back to the design field by opening a public-interest design shop focusing on green, affordable housing.



KAZUYUKI TAKADA | Director, Smart Community Department, New Energy and Industrial Technology Development Organization

Kazuyuki Takada is Director for the Smart Community Department, NEDO, focusing on developing and disseminating Smart Community-related technologies based on renewable energy with collaboration worldwide. Previously, he was NEDO Representative in their Washington, D.C. office until June, 2011. He managed NEDO's Cellulosic Ethanol Production Technology Development Program until August 2008 as well as various Japanese national R&D projects after joining NEDO in April 1997. He received a Bachelor of Engineering degree in Resource Engineering, and an MBA in Technology Management from Waseda University.



RICK VOLNER JR. | Plantation General Manager, Hawaiian Commercial & Sugar Company

Rick joined HC&S in 1997 as an agricultural engineer, overseeing the completion of the company's wastewater reclamation system. He has worked in various areas of agriculture at HC&S including management of the wastewater system and farm manager. He was promoted to senior vice-president of agricultural operations in 2007 and to Plantation General Manager in 2011. Rick successfully managed the closure of sugar operations in 2016 and is currently heading the company's efforts to implement diversified agriculture and renewable energy opportunities on the former sugarcane land. Rick was born and raised on Maui and serves as a board member and current President for the Hawaii Agricultural Research Center, the Maui County Farm Bureau, of which he is the current Treasurer, the Alexander and Baldwin Sugar Museum, and the Maui Memorial Medical Center Foundation.



BORIS VON BORMANN | Chief Executive Officer, Mercedes-Benz Energy Americas, LLC

Boris von Bormann is the Los Angeles-based CEO of the newly established Mercedes-Benz Energy Americas, LLC responsible for the development and sale of stationary energy storage systems for residential, commercial and utility applications for the North American market. Prior to joining Mercedes-Benz Energy, he was CEO for the U.S. headquarters of Sonnen Inc., a German-based manufacturer of energy storage solutions. Boris von Bormann has been in the international trade industry for over 18 years and in the solar industry for over 9 years.



MAKOTO WATANABE | Executive Director, New Energy and Industrial Technology Development Organization and Secretary General, Japan Smart Community Alliance

Since October 2015, Makoto Watanabe has served as an executive director of the New Energy and Industrial Technology Development Organization, where he is in charge of the International Affairs Department and Smart Community Department. Concurrently, he serves as Secretary General of the Japan Smart Community Alliance (JSCA), which promotes domestic and international activities with the aim of realizing smart communities through collaboration among JSCA members. In February 2016, he was also appointed Vice Chair of the Global Smart Grid Federation, a global stakeholder organization committed to promoting smart grids around the world. Previously, Mr. Watanabe worked at the Ministry of International Trade and Industry (MITI, now the Ministry of Economy, Trade and Industry).



JOSHUA WONG | President and Chief Executive Officer, Opus One Solutions

Joshua Wong has led Opus One Solutions to drive state-of-the-art innovation for the integration of distributed energy resources into the electricity power system. Prior to Opus One, Joshua was the Director of Engineering at eCAMION Inc., a grid-scale energy storage provider, and head of smart grid at Toronto Hydro Electric System Limited, where he led the policy, strategy, regulatory, business, and engineering development of Toronto's smart grid infrastructure. Joshua is a licensed Professional Engineer. He holds a degree in Electrical Engineering from the University of Toronto, Masters of Electric Power Engineering

from the University of Waterloo, and completed executive programs from MIT Sloan, IMD Business School and Harvard Business School.



MICHELLE WYMAN | Executive Director, National Council for Science and the Environment

Michelle heads the NCSE, a nonprofit, nonpartisan organization based in Washington, DC, that seeks to strengthen the role and use of science in environmental policy and decision making. Michelle Wyman has worked on energy and environmental policy with states and local governments for over 15 years. In close consultation with regional and local governments and their constituencies, she developed strategic and tactical solutions to their energy planning, climate mitigation, and adaptation challenges. She previously served as the Director of Intergovernmental Affairs at the U.S. Department of Energy, leading the Department's engagement activities with state, regional, and local governments.







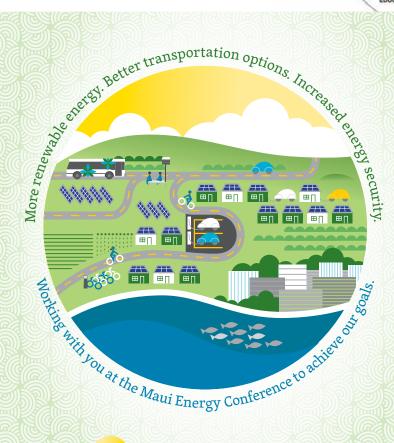
RELAX & RECHARGE



in the lobby of Castle ulupono Initiative
Ulupono Initiative Theater, courtesy of







ulupono initiative

Investing in a sustainable Hawai'i ulupono.com



GET CONNECTED

Network Name **MauiNRG**

Password greenisgood



JOIN THE CONVERSATION





- https://mec.zerista.com/
- /mauienergyconference
- @mauienergyconf #MauiNRG17



/company/maui-energy-conference





Download the Mobile App · Search MEC17

Use the app to engage with other registered attendees before, during, and after the event:

- Personalize your profile
- Schedule meetings with attendees
- View speaker bios
- Find exhibitors that match your interests
- Post comments to the conference and Twitter

SILVER SPRING NETWORKS

ENABLES THE INTERNET OF IMPORTANT THINGS

CITIES AND UTILITIES ON FIVE CONTINENTS USE SILVER SPRING NETWORK'S IOT NETWORK AND DATA PLATFORM TO OPERATE MORE EFFICIENTLY, GET GREENER, AND ENABLE INNOVATIVE SERVICES THAT CAN IMPROVE THE LIVES OF MILLIONS OF PEOPLE.

www.ssni.com

Hear from Silver Spring, Hawaiian Electric and others during the "Technology: Role of the Smart Grid" session on Thursday, March 23rd





Building Pathways to Innovation, Jobs, and Opportunity









