

2016 EPIC Symposium: Innovative Solutions for Reaching California's 2030 Energy Goals

Thursday, December 1, 2016 | Sacramento Convention Center



CALIFORNIA
ENERGY COMMISSION

Opening Plenary

9:00 – 9:20

Welcome and Opening Remarks – Laurie ten Hope, Deputy Director, Energy Research & Development Division & Dr. Robert B. Weisenmiller, Chair, California Energy Commission

Panel Sessions

9:30 – 10:45

Energy Efficiency Track	<p>Session: Getting to Zero Net Energy Buildings</p> <p>This session will explore the challenges of implementing ZNE in homes and commercial and municipal buildings. Each project uses a different ZNE strategy, but all will document the process, measure the outcomes and share the lessons learned with the building community.</p> <p>Moderator: David Hungerford</p> <p>Building Affordable Zero Net Energy Homes (Stockton, CA) Presenters: Larry Brand & Rob Kamisky, Gas Technology Institute</p> <p>Demonstrating a Cost-Competitive Zero Net Energy Community (Chino) Presenter: Garth Torvestad, ConSol</p> <p>Innovative Strategies to Achieve Zero Net Energy in Grocery Stores (San Francisco) Presenter: Aaron Daly, Whole Foods</p>	Electricity Generation Track	<p>Session: Planning for a Clean and Resilient Electricity System</p> <p>This session will highlight research on the pathways for the electricity system to reach California's clean energy goals and reduce greenhouse gas emissions, and share how one utility is using the information to make their system less vulnerable to climate impacts.</p> <p>Moderator: Guido Franco</p> <p>Low Carbon Energy Scenario Insights for a Robust Electricity System Presenter: Max Wei, Lawrence Berkeley National Laboratory</p> <p>Technology and Risk Assessment in GHG Mitigation Pathways Presenter: Sneller Price, Energy and Environmental Economics, Inc.</p> <p>Tackling Climate Vulnerability in San Diego Presenters: Andrew Petrow, ICF & Brian D'Agostino, SDG&E</p>	Power System Modernization Track	<p>Session: Advancing Field Safety and Securing Power Systems</p> <p>This session will include presentations pertaining to power system electrical safety and fault detection. It will also include a presentation on pilot testing new communication architecture standards for power systems.</p> <p>Moderator: Bryan Pham, SCE</p> <p>Smart Grid Architecture Demonstrations Presenter: Gabriel Leggett, SDG&E</p> <p>High Impedance Fault Detection System Presenter: Bryan Pham, SCE</p> <p>Close Proximity Switching Presenter: Rudy Movafagh, PG&E</p>
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10:45 – 11:00

11:00-12:00

<p>Break</p> <p>Thought Leaders Discussion Leveraging Emerging Technology to Meet California's Advancing Energy Landscape</p> <p>Mark Irwin, Director Contract Origination, Energy Procurement and Management, Southern California Edison Steve Malnight, Senior Vice President, Pacific Gas & Electric Dr. Veerabhadran Ramanathan, Distinguished Professor of Atmospheric and Climate Sciences, Scripps Institution of Oceanography Dr. Robert Weisenmiller, Chair, California Energy Commission Jonathan Woldemariam, Director of Electric Transmission and Distribution Engineering, San Diego Gas & Electric</p> <p>Moderated by: Cassandra Sweet, Reporter, Wall Street Journal</p>		
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12:00-1:30

1:30-2:45

<p>Lunch & EPIC Showcase</p>					
Energy Efficiency Track	<p>Session: Bringing Emerging Energy Efficiency Technologies to Low Income or Disadvantaged Communities</p> <p>This session will explore projects and strategies that target disadvantaged communities and how the projects will help these communities and its occupants lower energy costs and provide other benefits, such as building improvements and access to education and training opportunities. This session will also discuss how best to reach this sector to ensure long lasting and sustainable benefits.</p> <p>Moderator: Felix Villanueva</p> <p>Maximizing Energy Efficiency in an Existing Low-Income Mixed Use Residential and Commercial Building (San Francisco) Presenter: Cindy Wu, Chinatown Community Development Center and Stan Lew, RMW Architecture & Interiors</p> <p>Retrofitting Multifamily Properties for Sustainable and Persistence Savings Presenter: Ram Narayanamurthy, Electric Power Research Institute</p> <p>Integrating Smart Ceiling Fans and Communicating Thermostats to Provide Energy Efficient Comfort Presenter: Abhijeet Pande, TRC Companies Inc.</p> <p>Discussants: Sekita Grant, Greenlining Institute Samara Larson, Linc Housing</p>	Electricity Generation Track	<p>Session: Microgrids: Accelerating Adoption of Renewables</p> <p>This session will showcase five low carbon microgrids from design to construction with the goal of demonstrating the microgrids' ability to utilize local renewable resources, provide grid resiliency in emergency situations, and provide repeatable solutions that can be tailored for use in similar areas in California.</p> <p>Moderator: Fernando Pina</p> <p>Kaiser Richmond Microgrid Focusing on Resilient Hospital Services Presenter: Jon Harding, Charge Bliss, Inc.</p> <p>Fremont Fire Station's Low-Carbon Microgrid Maintaining Emergency Services Presenter: Vipul Gore, Gridscape Solutions</p> <p>Laguna Subregional Wastewater Treatment Plant Microgrid – Sustainable Water Treatment and Ancillary Services Presenter: Michael Day, Trane U.S., Inc.</p> <p>Anchoring Downtown Berkeley's Urban Energy Community Presenter: Timothy Burroughs, City of Berkeley</p> <p>Designing Santa Monica's Municipal and Mixed-Use Advanced Energy District Presenter: Garrett Wong, City of Santa Monica</p>	Power System Modernization Track	<p>Session: Enabling Distributed Energy Resources (DER) Growth</p> <p>This session will include presentations on demonstrations to advance infrastructure for electric vehicles, high penetration of photovoltaics, and advanced power system protection.</p> <p>Moderator: Frank Goodman, SDG&E</p> <p>Direct Current (DC) Fast Charging Mapping Presenter: Morgan Metcalf, PG&E</p> <p>Modernization of Distribution System and Integration of Distributed Generation and Storage Presenters: Zoltan Kertay & Kirsten Petersen, SDG&E</p> <p>Advanced Distribution Analytic Services Enabling High PV Penetration Presenter: Christopher Clarke, SCE</p>

2:45-3:00

3:00-4:15

<p>Break</p>					
Energy Efficiency Track	<p>Session: Increasing California's Water Supply through Energy Innovation</p> <p>This session will explore novel technologies and strategies that provide an integrated approach to addressing both California's energy and water saving needs. Technologies and strategies that leverage both energy and water savings simultaneously provide a dual benefit to California and help maximize the potential value of investments.</p> <p>Moderator: Brad Williams</p> <p>California's Groundwater Pumping: The Energy Perspective Presenter: Larry Dale, Lawrence Berkeley National Laboratory</p> <p>Accelerating Drought Resilience Through Innovative Technologies Presenter: Laurie Park, Water Energy Innovations</p> <p>Demonstrating a Low Energy Biofiltration System for Groundwater Contaminant Removal Presenter: Joon Min, BKT</p> <p>Improving Water and Energy Efficiency in California's Dairy Industry Presenter: Theresa Pistochini, UC Davis</p>	Electricity Generation Track	<p>Session: Creating Advanced Energy Communities</p> <p>Local jurisdictions are increasingly looking to emerging energy technology solutions to help meet their community goals. This session will explore creative approaches being taken at the local levels to increase community-wide deployment of emerging energy technologies.</p> <p>Moderator: Erik Stokes</p> <p>Piloting an Integrated Energy Financing Platform for Fresno's Blackstone Corridor Presenter: Neil Matouka, Local Government Commission</p> <p>Creating a Zero Net Energy Farm in the Central Valley Presenter: Russ Teall, Biodico, Inc.</p> <p>Transforming Lancaster into a Zero Net Energy City Presenter: Richard Schorske, ZNE Alliance</p> <p>From the Community Up: Building a Clean Energy Model for San Diego's Encanto Neighborhood Presenter: Srinivas Sukumar, Groundwork San Diego-Chollas Creek</p>	Power System Modernization Track	<p>Session: Demonstrating System Simulation</p> <p>This session will include presentations on demonstrations of new concepts for modeling, simulation, visualization and situational awareness to support power system operations.</p> <p>Moderator: Julie Cerio, PG&E</p> <p>Restoration Workplan and Resource Modeling Presenter: Greg Molnar, PG&E</p> <p>Power Factory Hardware Simulation Presenter: Christopher Clarke, SCE</p> <p>Visualization and Situational Awareness Demonstrations Presenters: Aksel Encinas, SDG&E</p>

4:15-4:30

Closing Remarks, Laurie ten Hope, Deputy Director, Energy Research & Development Division, California Energy Commission

Registration and Information Desk is available 8:00 AM – 5:00 PM

To register, go to the following link: <http://bit.ly/2016EPICSymposium>