Workshop Agenda
Water, Energy, and Policy
The University of California, Riverside
Center for Sustainable Suburban Development
Center for Environmental Research and Technology
Southern California Research Initiative for Solar Energy
February 27th, 2019, 8:30 AM – 4:00 PM

This workshop is intended to look at the intricate relationship between water, energy, and the public policy that drives innovation, deployment, and implementation of technologies and programs intended to leverage existing resources to address existing challenges. Attendees will learn about use cases and arguments for an integrated approach around the water-energy nexus.

Bourns Technology Center
1200 Columbia Ave. Riverside, CA 92507

8:30 – 9:00 Breakfast and Registration

9:00 – 9:10 Introductory Remarks
Master of Ceremonies:
Ron Durbin, Executive Director, University of California Advanced Solar Technologies Institute (UC Solar), UC Merced
Welcoming Remarks:
Dr. Ronald Loveridge, Director, Center for Sustainable Suburban Development (CSSD), UC Riverside

9:10 – 10:10 The Energy-Water Nexus Panel
Description:
Water and energy are inextricably linked in an intricate pattern of extracting, treatment, transportation, and use. In fact, water pumping is one of the largest electrical loads in California. Learn more about the patterns of use and conservation, and how they are linked to energy.
Moderated by:
Celeste Cantú, Chair, Water Policy Center Advisory Council, Public Policy Institute of California (PPIC)
Panelists:
Laurie ten Hope, Deputy Director, Research & Development Division, California Energy Commission (CEC)
Susan Kennedy, Founder, CEO and Director, Advanced Microgrid Solutions (AMS) (invited)
Charley Wilson, Chair, Energy Committee, Association of California Water Agencies (ACWA)

10:10 – 10:20 First Morning Break/Transition to Workshops

Workshop Session 1:
Track 1:
10:20 – 11:20 Public Policy in the Solar Energy Arena
Description:
So far, a combination of state, federal, and municipal policies have combined to create public policy in the solar arena. How has this gone? Where is it now, and where is it going? How has public funding impacted the evolution of public policy in the solar arena? How is our Solar Valley doing? Come listen and interact with our panel of distinguished experts.

Moderated by:
Fred Schwartz, Executive Director, International Renewable Energy Academy (IREA), York University

Presenters:
Todd Foley, Senior Vice President, Policy & Government Affairs, American Council on Renewable Energy (ACORE)
Ed Smeloff, Director, Grid Integration, Vote Solar
A. Bambi Tran, Regional Director, GRID Alternatives

Track 2:

Description:
The California Energy Commission (CEC) has funded technology demonstration and deployment projects that accelerate the commercialization of electricity-related, energy-efficient industrial, agricultural, and water/wastewater processes at multiple sites. This session will discuss a project by the University of California, Riverside in collaboration with the Inland Empire Utilities Agency.

Moderated by:
Michael Todd, P.E., Principal Development Engineer, College of Engineering Center for Environmental Research and Technology (CE-CERT)

Presenters:
Dr. Sadrul Ula, Research Faculty, CE-CERT
Pietro Cambiaso, P.E., Supervisor, Environmental Compliance & Energy, Inland Empire Utilities Agency (IEUA)

11:20 – 11:30 Second Morning Break/Transition to Next Workshops

Workshop Session 2:
Track 1:
11:30 – 12:30 Builders Panel

Description:
Every few years, builders have to comply with increasingly stringent regulations under California’s Title 24 Energy Code. Soon, they will have to include solar on all new residential construction projects. Learn from the builders themselves how they intend to comply and what impacts regulations might have on the industry.

Moderated by:
Mike Hodgson, President, ConSol

Presenters:
Jim Petersen, Vice President, Research and Building Technology, Lennar (invited)
Jennifer O’Leary, Project Manager, DR Horton
Track 2:
11:30 – 12:30 CEC Sponsored Water & Energy Efficiency Projects - Part II

Description:
This session will discuss two independent site demonstrations at the Cucamonga Valley Water District and Olivenhain Municipal Water District in collaboration with the University of California, Riverside. This session will feature advanced technologies, methods, and approaches used at each respective water district, which improve the level of awareness and visibility in terms of energy use and power demand.

Moderated by:
Dr. Sadrul Ula, Research Faculty, CE-CERT

Presenters:
Mike Maestas, Manager, Water Production, Cucamonga Valley Water District (CVWD)
Erik Harp, Supervisor, Information Technology, Olivenhain Municipal Water District (OMWD)

12:30 – 1:30 Lunch

Workshop Session 3:
Track 1:
1:30 – 2:30 Financing Solar

Description:
One of the most confusing elements of solar power can be dealing with the financing. Not only can it be, as in the case of residential solar, a complex choice between many options, but for other segments of the market, financing can represent a significant barrier, even in these times of dropping cost. Commercial solar faces barriers that are different than for residential. Come and listen to our Financing Solar panel to learn what business leaders are doing to comply with California’s 100 percent solar mandate, and to hear the hurdles faced by the commercial solar sector.

Moderated by:
Lucas Nagy, Vice President, Business Development, CleanFund Commercial PACE Capital, Inc.

Presenters:
Ethan Zindler, Head of Americas, Bloomberg New Energy Finance (invited)
Sullivan Solar Power (invited)

Track 2:
1:30 – 2:30 Victor Valley Water Reclamation Authority Project

Description:
This session will discuss a project sponsored by the CEC as part of the Electric Program Investment Charge (EPIC) program at the Victor Valley Wastewater Reclamation Authority. The goals of the project are to: 1) help California reduce the consumption of potable water; 2) demonstrate a pre-commercial, integrated energy management and control system that will result in both energy and water savings; and 3) deploy a cost-competitive system that water treatment facilities throughout California can use when deploying their own water- and energy-saving systems.

Moderated by:
Dr. Alfredo Martinez-Morales, Research Faculty, Southern California Research Initiative for Solar Energy (SC-RISE)

Presenters:
Logan Olds, General Manager, Victor Valley Wastewater Reclamation Authority (VVWRA)
Arnold Ramirez, P.E., Senior Project Engineer and Project Manager, Biogas Engineering

2:30 – 2:40 First Afternoon Break/Transition to Next Workshops

Workshop Session 4:
Track 1:
2:40 – 3:40 Cities Support Solar
Description:
One of the most interesting facets of the push to 100 percent renewables is the role that cities can play. From Santa Barbara to Rancho Mirage, San Diego to Chula Vista, and Rancho Cucamonga to Palm Springs, cities are increasingly committing to go solar in inland southern California.
Moderated by:
Alex Boston, Executive Director, Renewable Cities
Presenters:
Katie Barrows, Director of Environmental Resources, Coachella Valley Association of Governments (CVAG)
Trevor Birtch, Mayor, City of Woodstock

Track 2:
2:40 – 3:40 CEC Other Water Projects
Description:
This section will discuss other water-related projects that are part of the CEC portfolio under the EPIC program.
Moderated by:
Dr. Alfredo Martinez-Morales, Research Faculty, SC-RISE, UC Riverside

Presenters:
Mark Beuhler, P.E., MSEE, General Manager, Willow Springs Water Bank

3:40 – 4:00 Summation (Auditorium)
Dr. Jose Etcheverry, Director, International Renewable Energy Academy (IREA), York University

4:00 – 4:05 Closing Remarks (Auditorium)
Dr. Ronald Loveridge, Director, CSSD, UC Riverside
Dr. Alfredo Martinez-Morales, Managing Director, SC-RISE, UC Riverside
Fred Schwartz, Executive Director, IREA, York University

4:05 – 4:15 Transition to Reception

4:15 – 5:30 Sponsored Reception at CE-CERT