



UNIVERSITY OF CALIFORNIA, RIVERSIDE

SOLAR ENERGY CONFERENCE

FEBRUARY 27 & 28
BOURNS TECHNOLOGY CENTER
RIVERSIDE, CA

 www.cert.ucr.edu/events/solar2019.html



DAY 1 INTROS

8:30 AM

BREAKFAST & REGISTRATION

9:00 AM

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 AM

THE ENERGY-WATER NEXUS PANEL

Water and energy are directly linked in a pattern of extraction, storage, use, treatment, and transportation. Learn from a panel of experts about new technology, patterns of use and conservation, and how these are related to energy.

Moderated by: *Celeste Cantú, Chair, Water Policy Center Advisory Council, Public Policy Institute of California (PPIC)*

Panelists: *Charles Wilson, Chair, Energy Committee, Association of California Water Agencies (ACWA) Manal Yamout, Senior VP, Policy and Markets, Advanced Microgrid Solutions (AMS) Mark Beuhler, P.E., MSEE, General Manager, Willow Springs Water Bank*

10:10 AM

FIRST MORNING BREAK/ TRANSITION INTO WORKSHOPS



DAY 1 - TRACK 1

10:20 AM

PUBLIC POLICY IN THE SOLAR ENERGY ARENA

Public policy at the Federal, State, County and City levels determines to a great extent the trajectory and success of the adoption of solar power. Where are we now? Where is it going? How is this impacting our Solar Valley? Listen and interact with our panel of 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) Laurie ten Hope, Deputy Director, Research & Development Division, California Energy Commission (CEC) Ed Smeloff, Director, Grid Integration, Vote Solar A. Bambi Tran, Regional Director, GRID Alternatives

11:30 AM

BUILDERS DISCUSSION

How do new legislation and increasingly stringent regulations impact builders? How will they comply with 100% solar on all new housing? Attend this session to find out.

Speakers: Mike Hodgson, President, ConSol Fred Schwartz, Executive Director, International Renewable Energy Academy (IREA), York University Philip Small, Commercial Renewable Energy Consultant, SolarMax Technology, Inc. Energy Analyst, Energy Efficiency Research Office, CEC Trelynd Bradley Bowles, Policy Analyst, Governor's Office of Planning and Research

12:30 PM

LUNCH

1:30 PM

FINANCING SOLAR

So many choices in the residential sector. Numerous hurdles in the commercial sector. To learn what companies and business leaders are doing to deal with the mandates and regulations, and to clear the hurdles, please attend this panel.

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

Presenters: Eric Gerza, Senior Project Developer, Baker Electric Solar Emily Padilla, Manager, Community Development, Sullivan Solar Power Alex Smith, Senior Vice President, Business Development, PFMG Solar, LLC Larry Turner, Business Development Officer, Pacifica Capital



DAY 1 - TRACK 1

2:30 PM

FIRST AFTERNOON BREAK/ TRANSITION TO WORKSHOPS

2:40 PM

CITIES SUPPORT SOLAR

One of the most interesting facets of the push to 100% renewables is the role that cities can play. Please come to this panel if you want to learn how cities across southern California and even up north in Canada are going solar.

Moderated by: Katie Barrows, Director of Environmental Resources, Coachella Valley Association of Governments (CVAG)

Presenters: Trevor Birtch, Mayor, City of Woodstock Cory Downs, Conservation Specialist, Office of Sustainability, City of Chula Vista Aaron (Yichen) Lu, Program Coordinator, Department of Sustainability, City of San Diego Garret Wong, Senior Sustainability Analyst, City of Santa Monica

3:40 PM

SUMMATION (AUDITORIUM)

Dr. Jose Etcheverry, Director, International Renewable Energy Academy (IREA), York University

4:00 PM

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 PM

TRANSITION TO RECEPTION

4:15 PM

SPONSORED RECEPTION



DAY 1 - TRACK 2

10:20 AM

CEC SPONSORED WATER & ENERGY EFFICIENCY PROJECTS - PART I

The CEC has funded numerous water and wastewater demonstration and deployment projects. This session highlights a UCR – Inland Empire Utilities Agency project.

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

Presenters: Pietro Cambiaso, P.E., Deputy Manager, Planning and Environmental Resources, Inland Empire Utilities Agency (IEUA) Michael Todd, P.E., Principal Development Engineer, College of Engineering Center for Environmental Research and Technology (CE-CERT)

11:30 AM

CEC SPONSORED WATER & ENERGY EFFICIENCY PROJECTS - PART II

This session highlights two demonstrations (Cucamonga Valley Water District, and Olivenhain Municipal Water District) with UCR. Panelists will present technologies, methods, and approaches to energy use and power demand.

Moderated by: Michael Todd, P.E., Principal Development Engineer, CE-CERT

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

12:30 PM

LUNCH

1:30 PM

VICTOR VALLEY WATER RECLAMATION AUTHORITY PROJECT

This session highlights a Victor Valley Water Reclamation Authority project sponsored by the CEC EPIC Program. Goals are to reduce consumption, demonstrate advanced control systems, and demonstrate a cost effective system that can be cloned to other water treatment facilities.

Moderated by: Dr. Alfredo Martinez-Morales, Research Faculty, SC-RISE

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



DAY 1 - TRACK 2

2:30 PM

FIRST AFTERNOON BREAK/ TRANSITION TO WORKSHOPS

2:40 PM

DOE AND CEC FUNDED WATER PROJECTS

This session highlights additional EPIC program projects.

Moderated by: Ron Durbin, Executive Director, University of California Advanced Solar Technologies Institute (UC Solar), UC Merced

Presenters: Mark Beuhler, P.E., MSEE, General Manager, Willow Springs Water Bank Chie Hong Yee, Energy Analyst, Energy Efficiency Research Office, CEC
Dr. Roland Winston, Director & Distinguished Professor, UC Solar, UC Merced (UCM)

3:40 PM

SUMMATION (AUDITORIUM)

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4:00 PM

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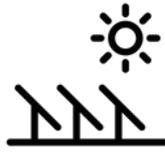
4:05 PM

TRANSITION TO RECEPTION

4:15 PM

SPONSORED RECEPTION

DAY 2



8:00 AM

**BREAKFAST &
REGISTRATION**

8:30 AM

INTRODUCTORY REMARKS

Master of Ceremonies:

*Ron Durbin, Executive Director,
University of California Advanced
Solar Technologies Institute
(UC Solar), UC Merced*

Welcoming Remarks: *Dr. Matthew*

*Barth, Director, College of
Engineering Center for
Environmental Research and
Technology (CE-CERT), UC
Riverside Dr. Ronald Loveridge,
Director, Center for Sustainable
Suburban Development (CSSD), UC
Riverside*

8:35 AM

MORNING KEYNOTE

*Steven Strong, President, Solar
Design Associates*

9:35 AM

MORNING PRESENTATION

*Courtney Smith, Chief Deputy Director,
California Energy Commission*

10:05 AM

**FIRST MORNING BREAK/
TRANSITION INTO
WORKSHOPS**



DAY 2

10:20 AM

THE STATE OF SOLAR ENERGY

Panelists will discuss the state of the industry focusing on opportunities and the challenges to address as the industry grows and takes a more central role in electricity production.

Moderated by: V. John White, Executive Director, Center for Energy Efficiency and Renewable Technologies CEERT)

Panelists: Russell Garwacki, Director, Pricing, Design & Research, Southern California Edison (SCE) Scott Murtishaw, Senior Advisor, California Solar + Storage Association (CALSSA) Dara Yung, Sr. Manager, Permit & Inspections, Sunrun

11:20 AM

SOLAR POLICY FOR INLAND SOUTHERN CALIFORNIA

Where is solar policy for inland Southern California now? Where is it going? What does the new category of “community solar” mean for our solar valley?

Moderated by: Rick Bishop, Executive Director, Western Riverside Council of Governments (WRCOG)

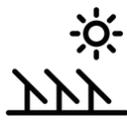
Panelists: Todd Foley, Senior Vice President, Policy & Government Affairs, American Council on Renewable Energy (ACORE) Ed Smeloff, Director, Grid Integration, Vote Solar A. Bambi Tran, Regional Director, GRID Alternatives

12:20 PM

SOLAR LEADERSHIP COUNCIL ANNOUNCEMENT

Announcing the Solar Valley Leadership Council, a nonprofit dedicated to increasing the use of solar in Riverside and San Bernardino Counties and attracting companies involved in the solar supply chain to inland Southern California.

Special Guest: Dr. Ronald Loveridge, Director, CSSD, UC Riverside



DAY 2

12:45 PM

LUNCH (SPONSOR'S BOOTHS AND POSTER SESSION)

2:00 PM

100% RENEWABLES BY 2050

Throughout the nation and particularly in California, cities, and counties are making commitments to reach the target of using 100% renewables before 2050. This panel will discuss public policy, programs, and action being taken by cities to meet this ambitious target.

Moderated by: Diane Moss, Founding Director, Renewables 100 Policy Institute

Panelists: **Trevor Birtch**, Mayor, City of Woodstock Dr. Jose Etcheverry, Director, International Renewable Energy Academy (IREA), York University Sharon Tomkins, Vice President, Customer Solutions, Communications & Environmental Strategy, Southern California Gas Company (SoCalGas)

2:50 PM

AFTERNOON BREAK

4:05 PM

MICROGRID AND ENERGY MANAGEMENT

Able to isolate themselves from the main grid, microgrids help us as they continue to provide electricity to facilities and campuses in grid outages. These microgrids, frequently comprised of solar, storage, and fossil fuel backup, impact the electricity system by stabilizing it and making it more resilient, and by providing electricity to mission critical facilities during disaster recovery efforts.

Moderated by: Dr. Michael Sullivan, Senior Vice President, Nexant, Inc.

Panelists: Dr. Manuel Avendano, Senior Manager, Emerging Technologies Evaluation, Southern California Edison (SCE) Dr. Alfredo Martinez-Morales, Managing Director, Southern California Research Initiative for Solar Energy (SC-RISE), UC Riverside Steven Strong, President, Solar Design Associates



DAY 2

3:40 PM

CLOSING REMARKS

*Dr. Ronald Loveridge, Director, CSSD, UC Riverside
Dr. Alfredo Martinez-Morales, Managing Director, SC-RISE, UC Riverside
Fred Schwartz, Executive Director, International Renewable Energy Academy (IREA), York University*

4:00 PM

CE-CERT TOUR (OPTIONAL)

HOSTED BY

UCR | Center for Sustainable
Suburban Development

UCR | College of Engineering-Center for
Environmental Research & Technology

SCRISE

Southern California Research
Initiative for Solar Energy