

UCR SolarValley

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2020

SC-RISE SOLAR VALLEY CONFERENCE PROGRAM



Inland Center for
Sustainable Development



Southern California Research
Initiative for Solar Energy



CE-CERT

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SC-RISE SOLAR VALLEY CONSORTIUM

PURPOSE

The purpose of the SC-RISE Solar Valley Consortium is to boost the deployment of solar power throughout Inland Southern California, and to build a clean green economy based on sustainable local resources. One of the key activities of the Consortium is our annual conference.



BENEFITS

Your tax deductible membership is not only a great way to gain visibility, but also to stay current with latest legislation, news, and trends in the industry. Some of the consortium benefits include:

- Enhanced profile at annual conferences;
- Reports on legislative and regulatory initiatives and activities;
- White papers on relevant topics;
- Updates on activities and assets in the Counties;
- Participation in initiatives guided by the consortium; and,
- Communication with state, federal, county and municipal decision-makers;
- Updates on trends and where things are heading.

www.cert.ucr.edu/southern-california-research-initiative-solar-energy-consortium

Inland Southern California can become the most attractive region for solar power in the U.S. There are natural advantages here that mitigate for policies and a local tax structure to advance the cause of solar energy and its associated technologies. The Solar Valley Consortium is dedicated to achieving these objectives and helping to create a green, clean energy economy.

Come join the consortium to help create a community of green businesses throughout the region.



WHY SOLAR

Solar power has a good reputation with the public. With siting policies that are community-inclusive and environmental policies that address species protection, solar energy can deliver what the public needs - improved air quality, job expansion and increased housing opportunities - all made possible by providing safe, reliable clean energy at reasonable rates.

JOBS

Jobs related to solar power have been the fastest-growing sector of employment in the nation. The jobs themselves range up and down the economic scale – from residential installation, to manufacturing, architecture and design, engineering, financing, construction, operation, consulting and research. From solar crew lead to project manager, typically jobs in the solar sector are well paid. Riverside and San Bernardino Counties as centers for solar expansion can provide good jobs for growing populations eager to be trained in high-tech skills.



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TOGETHER, WE'RE MOVING TO MORE **RENEWABLE ENERGY**

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Center for Environmental Research & Technology
6th Annual Solar Valley Conference



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SOLAR VALLEY CONFERENCE

September 14, 2020
8:30 AM - 12:15 PM

8:30 Welcome & Introductory Remarks

Master of Ceremonies: **Dr. Ronald Loveridge** Co-Chair, Solar Valley Consortium, and Deputy Director, Inland Center for Sustainable Development (ICSD), UC Riverside

Welcoming Remarks: **Dr. Chris Lynch** Dean, Bourns College of Engineering, UC Riverside
Dr. Matthew Barth Director, Bourns College of Engineering Center for Environmental Research and Technology (CE-CERT), UC Riverside

8:40 Morning Keynote

Karen Douglas Commissioner, California Energy Commission (CEC)

8:55 Solar, Storage, and Low Carbon Reliability

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

9:05 1st Panel Discussion: State of Solar Energy in Southern California

Panelists:

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

Casey Dailey Director of Energy & Environmental Programs, Western Riverside Council of Governments (WRCOG)

Duane Baker Deputy Director, San Bernardino County Transportation Authority (SBCTA)

In this panel, representatives from the Coachella Valley Association of Governments, the Western Riverside Council of Governments, and San Bernardino Transportation Agency will discuss the latest developments at the State, County, and City levels with a focus on solar in Riverside and San Bernardino Counties.

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

9:35 2nd Panel Discussion: Solar Initiatives for Communities

Panelists:

Poloi Lin Advisor, Education and Outreach, Southern California Edison

Todd Corbin General Manager, Riverside Public Utilities (RPU)

Michael Frasure Building and Safety Services Manager, City of Rancho Cucamonga

Devon Hartman President, Claremont Home Energy Retrofit Project (CHERP)

Across the state, communities are taking advantage of their solar resource. This panel will focus on the various tools and ways in which solar energy can be useful to utilities and communities. This will be a lively session with representatives from Southern California Edison, Riverside Public Utilities, the City of Rancho Cucamonga, and the Claremont Home Project.

Moderated by: **Rob Bernheimer** Attorney and Principal, Robert A. Bernheimer, A Professional Law Corporation

10:05 Keynote: Lessons from COVID-19 for Climate Change

Our Keynote Address is being delivered by **Dr. Daniel M. Kammen**, distinguished advisor to Presidents and to State and US Federal agencies, award winning Goldman Professor of Public Policy, author, and Founding Director of the Renewable and Appropriate Energy Laboratory, U.C. Berkeley

10:25 3rd Panel Discussion: Industry Perspectives

Panelists:

Nate Lewis Chief Revenue Officer, Renova Energy Corporation

David A. Allen Sales Manager, CED Greentech

Philip Small Commercial Renewable Energy Consultant, SolarMax Technology Inc.

Find out how the landscape for solar has been impacted by the Coronavirus pandemic. Learn about increased customer interest, and progress in streamlining the process. This panel focuses on existing policies, and policies needed to drive solar development and growth of related businesses. Initiatives will be identified at the state, county, and municipal levels, as well as effective

communication strategies between industry and government at various levels.

Moderated by: **Bernadette Del Chiaro** Executive Director, California Solar & Storage Association (CalSSA)

10:55 4th Panel Discussion: Strengths, Weaknesses, Opportunities, Threats in Southern California

Panelists:

Curt Hagman Supervisor, Fourth District San Bernardino County

V. Manuel Perez Supervisor, Fourth District Riverside County

Ed Smeloff Director of Grid Integration, Vote Solar

Eduardo Garcia California Assemblymember, District 56

Anchored by Supervisors Hagman (San Bernardino) and Perez (Riverside), with the added perspective from Ed Smeloff of Vote Solar and California Assemblymember Eduardo Garcia, this panel will focus on counties, state and local initiatives. What exactly is going on, what are the strengths, weaknesses, opportunities and threats before us? What needs to happen to supercharge solar in Southern California?

Moderated by: **Bambi Tran** Vice President, Regions, GRID Alternatives

11:40 5th Panel Discussion: Solar Valley as Pathway to Local Benefits

Panelists:

Dr. Ronald Loveridge Co-Chair, Solar Valley Consortium, and Deputy Director, Inland Center for Sustainable Development (ICSD), UC Riverside

Dr. Alfredo A. Martinez-Morales Co-Chair, Solar Valley Consortium, and Managing Director, Southern California Research Initiative for Solar Energy (SC-RISE), UC Riverside

Our economy can be the foundation of a clean prosperous sustainable future for ISC and the consortium has this squarely in our sights. This panel focuses on how the consortium can help craft localized solutions with localized benefits for the counties,

Professor Fred Schwartz Deputy Director, SC-RISE Solar Valley Consortium, UC Riverside





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Dr. Daniel Kammen the Class of 1985 Distinguished Professor of Energy at the University of California, Berkeley, with parallel appointments in the Energy and Resources Group, the Goldman School of Public Policy, and the department of Nuclear Engineering. He was appointed the first Environment and Climate Partnership for the Americas (ECPA) Fellow by Secretary of State Hilary R. Clinton in April 2010.

Kammen is the founding director of the Renewable and Appropriate Energy Laboratory (RAEL), Co-Director of the Berkeley Institute of the Environment, and Director of the Transportation Sustainability Research Center. He has founded or is on the board of over 10 companies, and has served the State of California and US federal government in expert and advisory capacities.

Dr. Kammen was educated in physics at Cornell and Harvard, and held postdoctoral positions at the California Institute of Technology and Harvard. He was Assistant Professor and Chair of the Science, Technology and Environmental Policy Program at the Woodrow Wilson School at Princeton University before moving to the University of California, Berkeley. Dr. Kammen has served as a contributing or coordinating lead author on various reports of the Intergovernmental Panel on Climate Change since 1999. The IPCC shared the 2007 Nobel Peace Prize. He serves on the Advisory Committee for

Energy & Environment for the X-Prize Foundation.

During 2010-2011 Kammen served as the World Bank Group's Chief Technical Specialist for Renewable Energy and Energy Efficiency. He was appointed to this newly-created position in October 2010, in which he provided strategic leadership on policy, technical, and operational fronts. The aim is to enhance the operational impact of the Bank's renewable energy and energy efficiency activities while expanding the institution's role as an enabler of global dialogue on moving energy development to a cleaner and more sustainable pathway.

He has authored or co-authored 12 books, written more than 300 peer-reviewed journal publications, testified more than 40 times to U.S. state and federal congressional briefings, and has provided various governments with more than 50 technical reports. Dr. Kammen also served for many years on the Technical Review Board of the Global Environment Facility. He is a frequent contributor to or commentator in international news media, including Newsweek, Time, The New York Times, The Guardian, and The Financial Times. Kammen has appeared on 60 Minutes (twice), Nova, Frontline, and hosted the six-part Discovery Channel series Ecopolis. Dr. Kammen is a Permanent Fellow of the African Academy of Sciences, a fellow of the American Physical Society. In the US, he serves on two National Academy of Sciences boards and panels.



Dean Lynch performed his MS, PhD, and Post Doctoral work at UC Santa Barbara. He joined the Woodruff School of Mechanical Engineering at Georgia Tech in 1995 and the Department of Mechanical and Aerospace Engineering at UCLA in 2007 where he served as director of the #2 ranked MS Online program and as the Mechanical and Aerospace Engineering department chair. On September 1, 2018 he moved to UC Riverside to serve as Dean of the Bourns College of Engineering. Prof. Lynch has served as chair of the ASME aerospace division. He has been honored with receipt of the NSF CAREER award, the ONR Young Investigator award, an ASEE educator award, as Fellow of ASME, Fellow of SPIE, the ASME Smart Structures Prize, the SPIE Smart Materials and Structures Lifetime Achievement Award, several teaching awards, serves as an associate editor of the new journal Multifunctional Materials, and as the editor-in-chief of the journal Smart Materials and Structures.

Dr. Matt Barth joined the University of California Riverside in 1991, conducting research in Electrical Engineering and at the Center for Environmental Research and Technology (CE-CERT), where he is currently Director and the Yeager Families Chair. Professor Barth's research focuses on applying engineering system concepts and automation technology to Transportation Systems, and in particular how these relate to energy and air quality issues. His current research interests include Intelligent Transportation Systems, Vehicle Activity Analysis, Transportation/Emissions Modeling, Electric Vehicle Technology, and Advanced Sensing and Control. Professor Barth is active in the U.S. Transportation Research Board currently serving on the Transportation and Air Quality Committee and the Intelligent Transportation Systems Committee. He has also served on a number of National Research Council (NRC) committees. Professor Barth has also been very active within IEEE Intelligent Transportation System Society for many years, and recently received the IEEE ITSS Outstanding Research Award.



FEATURED SPEAKERS



Commissioner Karen Douglas is serving her third term on the California Energy Commission. She served as chair from February 2009 to February 2011. Commissioner Douglas also served as director of the California Climate Initiative at the Environmental Defense Fund. Before going to the Environmental Defense Fund, Commissioner Douglas spent four years at the Planning and Conservation League. Commissioner Douglas graduated from Stanford Law School in 2001 and has a master's degree in public policy from the University of Colorado, Boulder.

V. John White is the Legislative Director of the Clean Power Campaign (CPC), and co-founded the Center for Energy Efficiency and Renewable Technologies (CEERT) in 1990. Over his 35-year career, John has been involved in the legislation and innovative regulatory programs that have accelerated progress in air quality, renewable energy sources, and global warming mitigation. These measures include the California Clean Air Act, the Carl Moyer diesel emission reduction incentive program, the California Global Warming Solutions Act, the Renewable Portfolio Standard, and the California Solar Initiative. John's efforts have resulted in a \$10 billion investment in energy conservation and renewable energy in California, and in the appropriation of significant funding for fuel cells, alternative transportation technologies, and the retrofitting and retirement of high-polluting school buses. John currently serves on the boards of directors of the California League of Conservation Voters, the Renewable Northwest Project, and the Environmental Council of Sacramento. He is also on the steering committees of the Western Clean Energy Campaign and the Interwest Energy Alliance.





Duane Baker is the Deputy Executive Director of the San Bernardino County Transportation Authority (SBCTA) and the San Bernardino Council of Governments (SBCOG). These agencies were formerly known as SANBAG. Duane's responsibility at SBCTA includes overseeing the council of government functions such as implementing the energy efficiency programs, overseeing grants for alternative fuel vehicles, serving on the steering committee for the Countywide Vision, and coordinating regional efforts to address common issues such as wellness and healthy communities. Duane also manages the Air Quality and Mobility Programs and is also responsible for human resources, information technology, facilities and operating policies. Duane has over 30 years of experience in city management, serving cities in Riverside, San Bernardino and Los Angeles counties. Duane received his Bachelors in Political Science/Public Service from the University of California, Riverside and his MPA from Cal State Fullerton.

Katie Barrows is the Director of Energy & Environmental Resources for the Coachella Valley Association of Governments (CVAG), a position she has held since February 2007. At CVAG, Katie directs regional environmental programs on energy, habitat conservation, recycling, water conservation, greenhouse gas reduction, and sustainability. In that capacity, Katie worked with local utility partners to promote energy efficiency and leadership by example among CVAG member agencies through the Desert Cities Energy Partnership. In 2017, Desert Community Energy, a community choice aggregation program, was established to provide local control and choice for electricity customers. Desert Community Energy is exploring solar + storage opportunities as well as other sources of carbon free and renewable energy for its customers.





Casey Dailey serves as Director of Energy and Environmental Programs for the Western Riverside Council of Governments. In this capacity, he oversees a number of regional and statewide programs that serve the public sector, and residential and business communities to reduce energy consumption, greenhouse gases and landfill waste, as well as to increase the use of alternative fueled vehicles and spark economic development through sustainable initiatives. Casey oversees the California HERO Property Assessed Clean Energy (PACE) Program as well as multiple residential and commercial PACE programs that provide competitive financing for energy efficiency, renewable energy, water conservation and seismic improvements to homes and businesses. Other programs that Casey is responsible for include: Western Riverside Energy Partnership, Regional Streetlights Program, Solid Waste & Used Motor Oil Programs and the Clean Cities Coalition. Casey has a Master's Degree in Public Administration from California State University, San Bernardino.

PANEL 2

Rob Bernheimer is a public policy expert and attorney with a proven track record of providing game changing strategies to complex issues, particularly where law and politics converge in government, corporations, non-profits, clubs and homeowners associations. With over 25 years of experience in representing clients in government, political and legal matters and nearly a decade as a Mayor and City Councilmember, Bernheimer has served as the strategic quarterback for Fortune 500 companies, private individuals, public agencies, corporations, non-profits and global investment companies in legal, municipal and special district issues across California. Bernheimer began representing solar companies in 2009 and has since led the entitlements of many utility-scale solar projects in Riverside and San Bernardino Counties.





Todd Corbin was named General Manager of Riverside Public Utilities (RPU) in December of 2018. In this position, he works closely with the City of Riverside's executive leadership team, the Board of Public Utilities and the Riverside City Council to implement policies promoting environmental sustainability while continuing to provide residents and businesses with high quality and affordable water and power. He has worked in the utilities industry most of his nearly 30-year career. Including positions of Finance Officer at Rowland Water District, Assistant General Manager of the Cucamonga Valley Water District, and Jurupa Community Services District as General Manager. Corbin also served as Project Manager for the Frontier Project Foundation, the non-profit foundation of the Cucamonga Valley Water District, which promotes environmental sustainability. In that role, he managed the construction and operation of a \$20 million LEED Platinum facility that was one of the most sustainable buildings in the state.

Michael Frasure has been in the construction industry for over 40 years serving on the public side the majority of that time. His background is in organizational leadership and he is currently the Building Official for the City of Rancho Cucamonga. Michael is an advocate of sustainability in social, cultural, and environmental arenas and is passionate about emerging methods to improve the built environment. "This is an exciting time to be alive as our choices to create and shape our future have never been so potent."





Devon Hartman is focused full-time on fighting global warming in the building sector – the largest contributor to greenhouse gas proliferation on earth. Now retired from his 35 year role as President and CEO of HartmanBaldwin Design/Build Inc., a full service Architecture and Construction company, he has created CHERP – the Community Home Energy Retrofit Project, a non-profit, social enterprise that assists counties and cities in creating a roadmap to city-wide, net-zero energy use. CHERP educates city councils, community organizations, homeowners, contractors, manufacturers, and realtors in the power and benefits of energy efficiency and creates replicable, scalable initiatives that promote massive reduction of greenhouse gasses, local economic growth, job creation and environmental justice. Currently, in a strategic partnership between the Cities of Pomona and Claremont, he is launching CHERP's capstone project called Locally Grown Power -the first non-profit solar panel assembly factory in the world designed to be replicable in Cities throughout California and beyond. He is also the developer of a LEED Platinum residential in-fill project in downtown historic Santa Barbara and the recipient of the Linda Wigington Visionary Leadership Award for the building science industry.

Poloi Lin is an advisor in Product Management for Southern California Edison's Customer Service. She manages the clean energy education & outreach for residential and commercial programs. Previously, she was a member of the communications team deploying Edison SmartConnect to 5 million SCE customers. Poloi is an experienced corporate communications manager who has worked for public relations agencies and managed communications for leading companies in the high-tech industry.





David Allen has been in solar for 10 years. Currently he is the Sales Manager for all solar operations at CED Greentech Riverside. CED Greentech is the market leader in solar equipment distribution to both residential and commercial solar installers. David manages an 8 person sales staff with 3 warehouse/sales offices servicing over 500 installers in the Southern California Market. Before joining CED Greentech, David's last position was the VP Sales in North America for Phono Solar, a division of SUMEC. Phono Solar is a China based solar PV module manufacturer and a renewable energy provider with a portfolio of utility scale solar projects throughout the world. Starting as the Director of Business Development, David launched Phono Solar modules in the North American market which have been installed on rooftop systems across the SoCal Inland Market, including the San Bernardino airport. David and his wife Susan are Riverside county residents and have lived in Murrieta over 20 years.

Bernadette Del Chiaro, Executive Director, California Solar & Storage Association. Bernadette Del Chiaro came to the California Solar & Storage Association in July 2013 and has built the organization into the largest clean energy business group in the state. Prior to her work with CALSSA, Ms. Del Chiaro served as the Director of Clean Energy and Global Warming Programs at Environment California as well as the Western States Regional Director for Environment America. Over the past seventeen years, Bernadette has been a leading voice on several California clean energy initiatives including the Million Solar Roofs Initiative (SB 1), the Solar Water Heating Initiative (AB 1470), the continued expansion of Net Energy Metering, the establishment of streamlined solar permitting (AB 2188), and the expansion of consumer incentives for energy storage (SB 700), among other victories. She's authored several clean energy reports and has been quoted widely in the media including MSNBC, NPR, BBC, New York Times, Los Angeles Times, and dozens of local and trade outlets. Del Chiaro, a California native, graduated from the University of California at Berkeley in 1995. She lives in Sacramento with her husband, Steve, and two children, Oliver and Willa.





Nate Lewis, a Coachella Valley resident for 25 years, joined Renova in 2014 and serves as Chief Revenue Officer - responsible for the marketing and management of residential and commercial sales and a team of almost 30 between the two departments. Under his guidance, Renova has grown into a \$40M company and is the recipient of multiple national awards, while maintaining the highest customer satisfaction rating in the country on Solar Reviews and a 5 Star Yelp rating. A SunPower Elite Dealer and Certified Installer for Tesla Powerwall, Renova also has the distinction of installing the most solar of any company in Palm Springs, the city with the highest amount of solar per capita in the continental United States, and more than half of all the residential solar installed in Rancho Mirage. Outside of work, Nate enjoys spending time with his wife and kids.

Philip Small Jr. Philip Small Jr. is a Commercial Renewable Energy Consultant at SolarMax Technology, Inc., with 8 years of experience in the Solar Industry. Philip is an expert in the field of Battery Energy Storage, having leveraged his Electronic Engineering Degree and Marketing expertise in the development and launch of the FLEX Energy Storage System™ for SolarMax in 2016. In 2018-2020 Philip has focused on business development including partnerships with home builders, and sales of multi Mega Watt Solar plus Battery Energy Storage projects. As a frequent Sales & Technology related speaker for local High Schools, College's, and Professional Organizations, Philip has become a local authority in the field of renewable energy.





Assemblymember Eduardo Garcia represents California's 56th Assembly District. Elected in 2014, Garcia is the current chair of Water, Parks and Wildlife. In this capacity he oversees some of the state's most pressing issues, such as drought conditions, and the implementation of the multi-billion-dollar Proposition 1, Water Bond passed by voters in 2014. Garcia also serves on the Assembly Committees on Appropriations, Communications and Conveyance, Governmental Organization and Utilities and Energy. In March of 2015 Garcia was appointed to chair the Select Committee on Renewable Energy Development and Restoration of the Salton Sea. As Chair of the select committee, Garcia will examine the opportunities and challenges surrounding development of renewable energy projects and the implementation of environmental restoration plans of the Salton Sea area. The Salton Sea remains one of the Assemblymember's top priorities. In his first term he was successful in securing \$80.5 million in the State Budget to fund Salton Sea restoration and mitigation projects; such as dust suppression, wetland and habitat recovery. In 2016, Assemblymember Eduardo Garcia had well over two dozen bills and resolutions signed by Governor Brown. Garcia made a point to champion measures that would increase access to healthcare, and bring environmental and economic relief to the areas of the Coachella and Imperial Valleys.

Supervisor Curt Hagman was elected to serve San Bernardino County's Fourth District in November of 2014 and was named Chairman of the Board of Supervisors in January 2019. The Fourth District includes the cities of Chino, Chino Hills, Montclair, Ontario, and the southern portion of Upland. Supervisor Hagman has an extensive resume of public service prior to his election to the San Bernardino County Board of Supervisors including serving in Chino Hills as Parks & Recreation Commissioner, member of City Council, Mayor, and six years in the California Legislature. Supervisor Hagman earned a Bachelor of Arts Degree in Psychology at UCLA. His children are continuing the Bruin tradition: Jonathan is currently attending a Public Policy Master's program at UCLA and is a 2nd Lieutenant in the Army National Guard; Elizabeth is a freshman at UCLA and is in the Army ROTC.





Supervisor Victor Manuel Perez was appointed in 2017 to the Riverside County Board of Supervisors, representing the County's Fourth District. In 2008, Manuel was elected to the California State Assembly, representing eastern Riverside County and Imperial County. Entering office during the great recession, he worked with colleagues on both sides of the aisle and the Governor's Office to bring forth fiscal accountability, health care reform, renewable energy growth and job creation legislation. A champion for eastern Riverside County, Manuel had more than 60 pieces of legislation signed into law to help create jobs, jumpstart the local renewable energy industry and make neighborhoods safer. His legislation focused on jobs, economic development, small business, education, health care access, infrastructure, renewable energy, transportation, air quality, environment, public safety, parks, technology, agriculture, water and the Salton Sea. He served as the chairman of the Jobs and Economic Development Committee, founding Vice Chair of the Select Committee for the Status of Boys and Men of Color as well as Chair of Stimulus, Economic Recovery and Jobs (SERJ). After serving three terms in the State Assembly, Manuel continued his public service with election to the Coachella City Council. Prior to his appointment to county supervisor, he was Chief Government and Public Affairs Officer for Borrego Health, a federally qualified health center serving the under-served in San Diego, Riverside and San Bernardino Counties.

Ed Smeloff is on Vote Solar's regulatory team working to transform the electric power system to be cleaner, smarter and more durable by integrating solar power and other clean energy technologies at all scales from rooftop to the utility-scale power plant. Vote Solar is involved in regulatory activities in 12 states. Before joining Vote Solar he worked for SunPower Corp. as its director of utility and power plant sales. There he was responsible for the development of more than a gigawatt of solar power plants now in operation across the United States. Earlier in his career, he worked as a senior manager for commercial solar projects at Sharp Electronics, as assistant general manager for electricity at the San Francisco Public Utilities Commission and as executive director of the Pace Law School Energy Project. He served for 10 years as an elected Board Member of the Sacramento Municipal Utility District. He is the author of "Reinventing Electric Utilities: Competition, Citizen Action, and Clean Power".





Bambi Tran is currently the Vice President of Regions at GRID Alternatives, the nation's largest community nonprofit solar organization that makes renewable energy technologies and job training accessible to underserved communities. In her current role she helps ensure the success of GRID's regional operations and is a thought partner, coach, and manager for regional Executive Directors across the US. She has over 25 years of experience in green building, education, community development, and non-profit management. Bambi holds a BS in Architecture from the University of Virginia and a Masters in Real Estate Development from the University of Maryland College Park, and is a LEED Accredited Professional.

PANEL 5

Dr. Ronald O. Loveridge is a long time professor of political science at UCR (1965-) and a former local elected official, 19 years as Mayor of Riverside and 14 years as a Council member. He was President of the League of California Cities (2004) and President of the National League of Cities (2010). He is currently on the Board of the National Civic League and a Fellow in the National Academy of Public Administration. As a professor, he taught/placed over 2,500 interns in the greater Riverside area. At UCR, Loveridge is the Co-Chair of the Solar Valley Consortium and is the Deputy Director of the Inland Center for Sustainable Development. Locally, Loveridge is Vice President of Ontario International Airport Authority, President of the Friends of the California Citrus Park, President of the Civil Rights Institute of Inland Southern California, Board of Directors of the Coalition for Clean Air, Board of Directors of Riverside's International Relations Council, and member of two local leadership groups—Raincross and Monday Morning. Loveridge completed his BA from University of Pacific (1960) and his PhD from Stanford University (1965).





Dr. Alfredo Martinez-Morales is the Managing Director of the Southern California Research Initiative for Solar Energy (SC-RISE) and Research Professor at the Bourns College of Engineering Center for Environmental Research and Technology (CE-CERT). Dr. Martinez-Morales received his Ph.D., M.S. and B.S. degrees in electrical engineering from UCR. His current research includes solar cells, alkali metal-ion batteries, highly integrated renewables, energy storage systems, and microgrids. Dr. Martinez-Morales is a principal investigator in the Sustainable Integrated Grid Initiative (SIGI) at UCR, and has contributed in the engineering, permitting, and deployment of the SIGI smartgrid testbed system and multiple microgrids throughout Southern California.

Fred Schwartz graduated from McGill University with a B.Ed., and is now an Adjunct Professor in the Faculty of Environmental Studies at York University, where he graduated from with a Masters Degree in 1973. Soon afterward, Fred worked on Inuit Land Claims in the Canadian Arctic and Northern Labrador. This led him to be interested in community energy systems (the communities were all on diesel), and he has worked in the renewable energy field ever since. In 1981 he set up the Remote Power Program for the Ministry of Energy in Ontario, then after moving to California in 1990, he worked for PG&E, the City and County of San Francisco, and has co-managed programs with the CEC. He has published Op-Ed articles on waste to energy, and environmentally sensitive small hydro, and he has co-published articles on solar power and small hydro in various IEEE venues. In 1991 he received the Environment and Conservation Challenge Award from the President of the United States. In 2004 he received a Green Power award from the EPA, and in 2005 he participated in a Blue Planet Award from the United Nations. He is Executive Director of the International Renewable Energy Academy at York University, and Deputy Director of the SC-RISE Solar Valley Consortium at UC Riverside's Center for Environmental Research and Technology.



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