

A large wind turbine is the central focus, shown from a low angle looking up. The turbine's tower, nacelle, and three blades are visible against a clear, vibrant blue sky. In the background, a range of mountains is visible, with patches of snow or light-colored rock on their peaks and slopes. The overall scene is bright and clear, suggesting a sunny day.

2019 ANNUAL REPORT

**CENTER FOR
ENERGY EFFICIENCY
AND RENEWABLE
TECHNOLOGIES**

ABOUT CEERT

The Center for Energy Efficiency and Renewable Technologies (CEERT) is a broad-based, collaborative partnership of environmental groups, environmental-justice groups, and clean-energy companies working together to craft policies that advance clean, renewable energy and climate solutions for California and the West.

CEERT's staff, board, consultants, and clean-energy and environmental affiliates carry out our work through a set of focused advocacy programs. We act as participants and intervenors before all the major governmental energy, climate, and air-quality agencies.

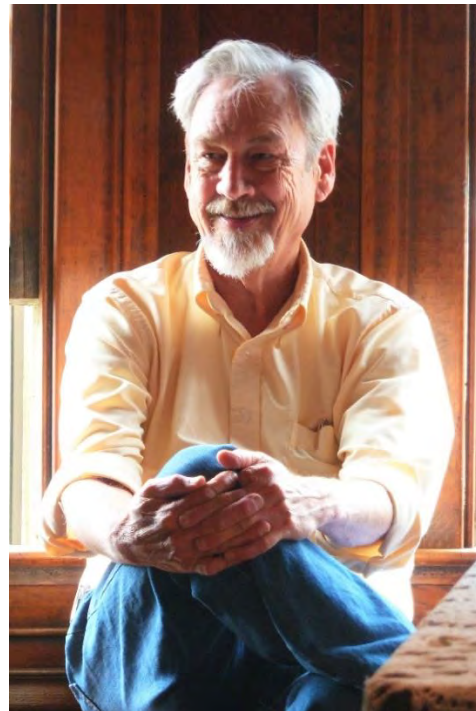
CEERT is pressing decision-makers to institute renewable procurement, climate policies, and grid operating rules that enable California to meet its clean energy and greenhouse-gas reduction goals and speed up the transition to a zero-carbon future.

Richard Ferguson, Ph.D., 1939 – 2020

Rich was one of CEERT's founders, and helped inspire and lead the organization from the beginning.

A retired physics professor, an advisor to Mothers for Peace, and Energy Chair of Sierra Club California, Rich helped us sort through the economic and technology issues we needed to master to effectively advance the cause of renewable energy.

We are devastated by his loss, but deeply grateful for the opportunity we had to know and work with him. In the words of his dear friend and CEERT colleague Jim Caldwell, "Rich was a pessimist who never stopped trying."



FROM THE EXECUTIVE DIRECTOR



With the arrival of Gavin Newsom as Governor, California began a new era, full of hope and expectations that California would continue its global leadership on climate and clean energy. But in the aftermath of the devastating wildfires that caused PG&E to fall into bankruptcy, the Governor's focus shifted to dealing with the resulting financial challenges and political morass. The bankruptcy also preoccupied regulators at the Public Utilities Commission, which struggled to respond to the challenges of California's changing electric grid.

But in Los Angeles, Mayor Eric Garcetti announced in February that he was directing the LA Department of Water and Power to abandon projects to modernize three natural gas plants, and instead accelerate plans for getting to 100% clean energy, including an aggressive strategy to electrify transportation, water heating and building-space conditioning. LADWP responded by embarking on a world-class study of clean energy paths and scenarios with the National Renewable Energy Laboratory. Among the options being evaluated are expanded transmission to enable expanded imports of renewables from the north and east, offshore wind with new transmission from the west, in-Basin solar with storage, and long-duration storage using compressed air and renewable hydrogen.

CEERT has worked hard to "connect the dots" and understand the consequences of California's success in rapidly expanding clean energy, and we have developed important new ideas for balancing renewables, reducing dependence on natural gas, and expanding new, distributed clean resources. We have recognized that simply adding more renewable kilowatt hours doesn't necessarily reduce greenhouse gas emissions, unless we modernize and reform how we manage the electric grid and maintain system reliability. With the cost reductions and experience we have gained with deploying large amounts of clean energy, we can now envision a grid that runs largely on renewables and minimizes the use of gas to maintain reliability.

But as we face the unprecedented economic and human impact of the coronavirus, we look forward to restoring momentum to California's clean energy industry, and recognize the potential for clean energy to lead the economic recovery and bring good jobs and badly needed investment to some of California's most distressed regions such as the Central Valley, Inland Empire, and Imperial Valley.

California has accomplished a great deal, but our work has just begun. We have seen the future, and we can get there, if we work together and learn from our mistakes and our experience, and never lose sight of the urgency of clean air, clean energy, and protecting the future of our children and grandchildren.

A handwritten signature in black ink, appearing to read "V. John White". The signature is written in a cursive, slightly stylized font.

V. John White
Executive Director

THE YEAR'S MAJOR ACCOMPLISHMENTS

In 2019, CEERT:

- Advised Los Angeles Department of Water and Power (LADWP) senior staff and Board of Commissioners on ways to achieve 100% clean energy in the Los Angeles Basin, following LA Mayor Eric Garcetti's groundbreaking decision In February 2019 that no new investment in gas-fired power would be made in the LA Basin.
- Helped win approval of new storage and transmission resources that will supply grid reliability for the Moorpark area in place of the rejected Puente gas-fired plant that CEERT and our local environmental-justice allies succeeded in defeating two years earlier.
- Worked with advocates in neighboring states to increase Western grid cooperation through a new Enhanced Day-Ahead Market, which will account for up to 95% of regional energy market transactions and result in improved transmission planning, renewables trading, efficiencies, and cost savings across the West.
- Collaborated with the State Water Contractors, the California Independent System Operator (CAISO), LADWP, and California's Secretary of Resources to find ways that the State Water Project can overcome outmoded market rules to supply zero-carbon electricity, bulk energy storage, and reliability services that will help the state meet its clean-energy goals.
- Advocated for substantial new procurement of clean-energy resources to meet the load growth that will result from electrifying transportation and energy use in buildings in order to meet California's climate targets.
- Held meetings with the Governor's Office and trade groups on preventing renewable energy contracts from being abrogated in PG&E's bankruptcy proceedings.
- Worked with developers on transmission capacity to interconnect large new solar projects on retired Central Valley farmland.
- Spearheaded discussions of ways to finance large-scale storage projects and allocate costs fairly, either through joint utility ownership or long-term contracts with the CAISO.
- Argued that the CPUC must adopt a 30 million metric ton (MMT) GHG emission-reduction target, rather than continue to base decisions on a 46 MMT target that is wholly inconsistent with California's 2030 and 2045 climate goals.
- Worked behind the scenes with vehicle emission experts on a strategy for negotiating minor adjustments in California's regulations in order to persuade receptive auto companies to part ways with the national car company lobby's regressive stance, paving the way for a dramatic agreement in which Ford, BMW, Volkswagen, and Honda committed to meeting California's GHG emissions standards and Obama-era fuel economy rules in all 50 states.

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Board Co-Chair Erica Brand



Board Co-Chair Tom Starrs

ROLLING BACK CALIFORNIA'S DEPENDENCE ON NATURAL GAS

As coal-fired power is phased out of California's generation mix, greenhouse gas (GHG) emissions from the electric sector are now almost entirely caused by natural gas combustion and methane leakage from the gas infrastructure. To meet our GHG-reduction goals, we *must* shrink the state grid's current overreliance on gas.

In 2019, CEERT:

- Advised Los Angeles Department of Water and Power (LADWP) senior staff and Board of Commissioners on ways to achieve 100% clean energy in the Los Angeles Basin, following LA Mayor Eric Garcetti's groundbreaking decision In February 2019 that no new investment in gas-fired power would be made in the LA Basin.
- Initiated discussions between LADWP and Southern California Edison (SCE) on shared ownership of an expanded transmission line from Hoover Dam, which would improve both systems' reliability, help integrate renewables, and reduce dependence on gas-fired power.
- Worked with SCE officials to increase reliance on clean resources, notably local solar paired with storage and demand response, to minimize extending the life of gas-fired plants.
- Helped win approval of new storage and transmission resources that will supply grid reliability for the Moorpark area in place of the rejected Puente gas-fired plant that we and our local environmental-justice allies succeeded in defeating two years earlier.
- Provided technical support to opponents of Glendale Water & Power's proposed 280 MW gas plant. The Glendale City Council subsequently voted to cut the amount of new gas to a maximum of 93 MW and rely on local clean-energy resources for the rest of the city's needs.



Technical Director Jim Caldwell and Board member and Co-Founder Jan McFarland

EXPANDING THE USE OF RENEWABLE ENERGY

California has committed to obtaining 50% of our electricity from renewable sources by 2026, 60% from renewables by 2030, and 100% from zero-carbon sources by 2045. To reach these targets, and to electrify transportation and energy use in buildings to meet our GHG-reduction goals, it is essential that we considerably expand our clean-energy capacity.

In 2019, CEERT:

- Held discussions with the Governor's Office and trade groups on the critical importance of preventing renewable energy contracts from being abrogated in PG&E's bankruptcy proceedings.
- Helped Los Angeles Department of Water and Power staff plan to accelerate investment in local solar, demand response, and electrification of the Port of Los Angeles and LA International Airport to replace the output of three retiring gas-fired power plants, and to include more electrification of heavy-duty transportation and building space conditioning in LADWP's plans for reaching 100% clean energy.
- Argued in the California Public Utilities Commission's (CPUC's) Resource Adequacy (RA) proceeding for adoption of a Qualifying Capacity methodology that values and appropriately compensates clean resources such as hydropower, demand response, microgrids, aggregated distributed generation plus storage, and hybrid wholesale storage plus renewables.
- In the Integrated Resource Planning proceeding, strongly urged the CPUC to initiate a procurement of clean resources and clean-resource hybrids to mitigate potential capacity shortfalls and continued overreliance on gas-fired generation.
- Advocated for substantial new procurement of clean-energy resources to meet the load growth that will result from electrifying transportation and energy use in buildings in order to meet California's climate goals.



Regulatory Counsel Sara Steck Myers and Associate Regulatory Attorney Megan Myers

DECARBONIZING THE ELECTRIC GRID

CEERT has been playing a lead role in reforming and decarbonizing the electric grid in California and throughout the Western states. We are working to bring about key changes in grid operations, rules, and assumptions that have led to an overreliance on fossil-fueled power plants.

In 2019, CEERT:

- Worked with our allies in neighboring states to increase Western grid cooperation through a new Enhanced Day-Ahead Market, which will account for up to 95% of regional energy market transactions and result in improved transmission planning, renewables trading, efficiencies, and cost savings across the West.
- Helped develop a plan to use both compressed-air energy storage and renewable hydrogen produced by wind and solar power as substitutes for gas in a proposed plant that will replace two coal-burning units at the Intermountain Power Project, which supplies energy to public utilities and electric co-ops in Southern California and Utah.
- Worked with the State Water Contractors, California Independent System Operator, Los Angeles Department of Water and Power, and the California Secretary of Resources to find ways that the State Water Project can overcome outmoded market rules to supply zero-carbon electricity, bulk energy storage, and reliability services that will help the state meet its climate goals.
- Joined with the Climate Center to advocate at the California Public Utilities Commission for PG&E's post-bankruptcy structure to feature an Open Access Distribution System Operator, which would facilitate linked local grids that promote resilient service, revenue stability, and investor confidence.



Policy Analyst Carleigh Olsen

ADVOCATING FOR TRANSMISSION, BULK STORAGE, AND DEMAND RESPONSE

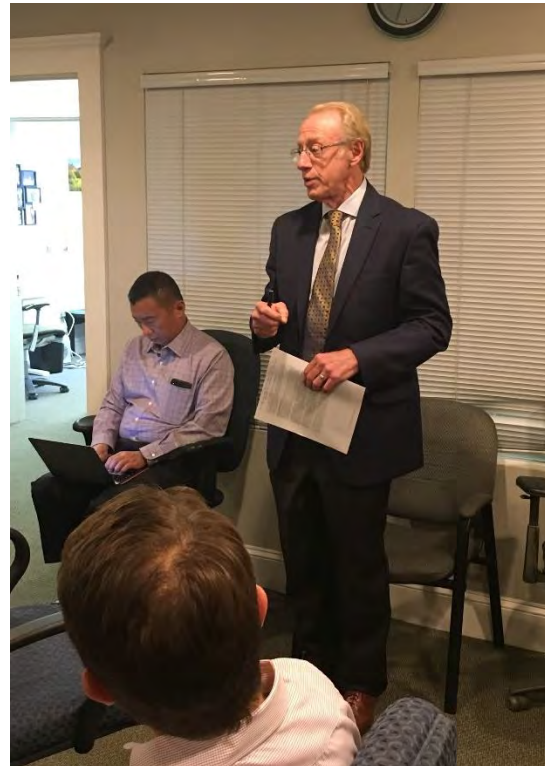
CEERT advocates at the California Public Utilities Commission (CPUC) and California Independent System Operator (CAISO) for large-scale energy storage, stronger demand response programs, and expanded transmission lines that will advance clean energy and a low-carbon grid.

In 2019, CEERT:

- Successfully counseled the Los Angeles Department of Water and Power to center its new transmission plan on expanding an existing line from Hoover Dam to the LA Basin, upgrading a line from Utah to Victorville, and enlarging the DC Intertie from the Pacific Northwest.
- Worked with developers on transmission capacity to tap large new solar projects such as Westlands Solar Park on retired Central Valley farmland, and on expanding the Central Valley Water Project transmission line to San Luis Reservoir to increase solar exports.
- Explored prospects for a new underwater transmission line from Diablo Canyon to Southern California that would enable new offshore wind projects to interconnect with the grid and provide much-needed resiliency to the electric system in the LA Basin.
- Led discussions of ways to finance large-scale storage projects and allocate costs fairly, either through joint utility ownership or long-term contracts with CAISO. CEERT is working with backers of major compressed-air and pumped-hydro storage projects.
- Continued to advocate with the CPUC, CAISO, and electricity providers for policies that recognize the crucial potential of demand response (DR) to displace natural gas in meeting reliability needs and supplying the load flexibility the grid now requires.



Virinder Singh of EDF Renewable Energy and Dan Kim of Westlands Solar Park at CEERT's 2019 Board Retreat



Dave Olsen, Chair, CAISO Board of Governors, at CEERT's 8/20/2019 Board meeting

ADVANCING CALIFORNIA'S CLIMATE POLICIES

California's pioneering climate goals require slashing greenhouse gases 40% below 1990 levels by 2030 and achieving statewide carbon neutrality by 2045. CEERT's Climate Program is working to strengthen the California Air Resources Board's (CARB's) 2030 GHG Scoping Plan, substantially lower the GHG-reductions target in the CPUC's Integrated Resource Planning (IRP) proceeding, and tighten controls on methane and other potent climate pollutants.

In 2019, CEERT:

- Met with top CARB officials about problematic modeling assumptions in the CPUC's IRP process, which have led to underestimating current levels of GHG emissions, planning that will not achieve 2030 GHG-reduction targets, and increased pollution from gas-fired plants.
- Argued that to reach a trajectory for achieving California's 2030 and 2045 climate goals, the CPUC must adopt a 30 million metric ton (MMT) GHG emission-reduction target, rather than continue to base decisions on a 46 MMT target that is much too high and wholly inconsistent with the state's statutory goals.
- Educated CARB staff and Board about fuel cell net-metering calculations assuming a cleaner grid than actual monitoring reflects, so the marginal emissions that fuel cells and other behind-the-meter technologies displace are much greater than CARB has assumed.
- Actively participated in the Dairy/Livestock Working Group's recommendations for mitigating dairies' methane emissions, and in the implementation of the California Department of Resources Recycling and Recovery's strategy to reduce organic waste disposal.



ACCELERATING CLEAN TRANSPORTATION

Because vehicles account for about 40% of greenhouse-gas emissions in California, the state is placing a high priority on decarbonizing the transportation sector to meet its climate goals. CEERT's Clean Transportation Program works to speed up the transition to low-carbon fuels and to support viable markets for zero-emission electric and fuel-cell vehicles.

In 2019, CEERT:

- Worked behind the scenes with vehicle emission experts on a strategy for negotiating minor adjustments in California's regulations in order to persuade receptive auto companies to part ways with the national car company lobby's regressive stance, paving the way for a dramatic agreement in which Ford, BMW, Volkswagen, and Honda committed to meeting California's GHG emissions standards and Obama-era fuel economy rules in all 50 states.
- Helped forge a cooperation agreement between Canada and California to work together to cut GHG emissions from transportation by accelerating the adoption of zero-emission vehicles (ZEVs) and cleaner fuels.
- Took part in shaping regulations for ridesharing companies like Lyft and Uber to curb GHG emissions in innovative ways such as encouraging ZEV miles and links to transit.
- Successfully advocated in CARB's Advanced Clean Truck Regulation for more aggressive targets requiring ZEVs as a percentage of major manufacturers' truck sales, starting in 2024.
- Continued to serve on the Advisory Committee for the Alternative and Renewable Fuel and Vehicle Technology Program, whose 2019 – 2020 Investment Plan provides \$32.7 million for electric vehicle charging and \$20 million for hydrogen fueling stations, with an additional \$37.5 million for zero-emission vehicles and alternative fuels.



THE BUILDING DECARBONIZATION COALITION

CEERT is the fiscal sponsor for the Building Decarbonization Coalition, a broad alliance that is working to decarbonize California's homes and workplaces, largely by substituting electricity for fossil fuels in space heating, water heating, cooking, dishwashing, and clothes drying. Coalition members include utilities, community-choice electricity providers, city governments, builders, real estate, manufacturers, and NGOs.

In 2019/2020:

- The Coalition, in partnership with the Sierra Club and Natural Resources Defense Council, has been supporting local government adoption of electrification reach codes through coordination, best-practice development and regulatory advice. To date, 30 communities have adopted reach codes with the Coalition's assistance.
- This summer, the Coalition will roll out the nation's largest building decarbonization consumer campaign, "The Switch is on!" Thanks to the generous support of leaders within the Coalition membership, the last year has been spent developing a lively, appealing multi-platform campaign that will engage consumers and inspire them to learn more about and then purchase clean-energy-powered appliances.
- This year, the California Public Utilities Commission (CPUC) allocated a combined \$44 million in general market and equity-specific funds for electric heat pump water heater (HPWH) incentives through the Self-Generation Incentive Program. This funding is a major win for the decarbonization community because it will stimulate market transformation and illustrate the shifting public dialogue on HPWHs.
- The Coalition performed a market assessment of production and custom home builders in California and what their preferences, opinions and needs are for building and promoting all-electric construction. From this assessment came recommendations for policies, programs, permitting and other solutions to support builders in creating all-electric developments.



**BUILDING
DECARBONIZATION
COALITION**

WESTERN GRID GROUP

Western Grid Group is a fiscally sponsored project of CEERT that works on regional issues throughout the Western Interconnection to build a low-carbon future by increasing renewable energy deployments, reducing fossil energy use, and supporting policies and rules that promote more distributed energy and flexible demand resources. In 2019, WGG focused our efforts on regional market constructs, coalition and capacity building across the West, and utility financial mechanisms to support closures of coal plants and a just transition for affected communities.

2019 WGG Highlights:

- Regional Markets – WGG Informed regulatory and planning dockets involving market development throughout the Western region, including the priority states of Arizona, Colorado, Nevada, Oregon, and Utah, as well as New Mexico and Washington. We worked with advocates and state officials to encourage attention to market development issues in state commission planning, rate cases, and investigatory and other dockets, and we contributed to the CAISO multistate governance development processes. WGG’s Director Doug Howell became an Energy Imbalance Market Governance Review Committee member and extensively influenced thought leadership related to the Enhanced Day Ahead Market.
- Coalition and Capacity Building –Through our Western Clean Energy Advocates (WCEA) coalition and convening of monthly calls, in-person meetings, and WCEA work groups, WGG provided a West-wide forum for thought leadership, strategy development, and action plans for advocates to identify opportunities to influence decision-leaders, improve understanding of markets and technical issues through deep discussions of technical and policy issues, support individual participant work, review strategy and work products, and develop content for filings by WGG and joint commenters to the Federal Energy Regulatory Commission and key Western audiences.
- Coal Plant Closures and a Just Transition for Affected Communities – WGG expanded our utility financial transition work beyond the initial Colorado pilot and continued capacity building and education of the coalition on fossil refinance, transference of successful securitization models to new states, and identification of best practices. In partnership with a WCEA Just Transition Work Group led by the Natural Resources Defense Council, WGG investigated and conveyed to decision leaders in Western states examples of early coal plant retirements and how provisions could be made for mitigating impacts on workers and communities to remove impediments to a faster transition from coal to clean energy.



CEERT's 17TH ANNUAL CLEAN POWER CHAMPIONS CEREMONY

At our Clean Power Champions Awards Ceremony on August 20, 2019, CEERT honored six outstanding leaders for their work to advance clean energy.



DAN JACOBSON is the State Director of Environment California, and was the lead strategist for SB 100, which commits California to 100% electricity from zero-carbon sources by 2045. Dan designed the Charge Ahead campaign for electric vehicles, and successfully advocated for one million solar roofs in California and state divestment from coal.



MARK FERRON is a former CPUC Commissioner and CAISO Board member who has worked tirelessly to advance renewables, decarbonize the grid, and reduce dependence on natural gas. Mark was instrumental in establishing a program to require ride-hailing companies like Lyft and Uber to offer their drivers incentives for using electric vehicles and clean fuels.



AURA VASQUEZ was the first environmental-justice organizer and activist to serve on the Los Angeles Department of Water and Power Board of Commissioners. Aura succeeded in getting LADWP to commit to coal-free energy by 2025, helped lead grassroots support for SB 100, and promoted broader use of community solar and battery storage.



LORENZO KRISTOV was a principal at the CAISO, where he was a lead architect of the locational marginal-pricing market system and helped redesign the transmission planning process to better integrate renewables. Lorenzo is currently working to transition the grid to a decentralized structure with increasing amounts of community-level clean resources.



WILLIAM FUNDERBURK, JR. is an attorney specializing in environmental regulatory issues and clean-tech finance. As an LADWP Commissioner, Bill built community, labor and business support for reducing LA's reliance on coal and gas while accelerating a just transition to 100% clean energy by 2040 and improving LADWP's social equity across its territory.



CARL ZICHELLA is the recipient of a CEERT Special Lifetime Achievement Award. Carl has been instrumental in moving the entire Western region toward a 100% clean-energy path, in winning approval of more than 10,000 megawatts of large-scale solar and wind projects, in expanding and better integrating the transmission grid for renewables, and in replacing retired coal plants with clean-energy resources.

At CEERT'S 17TH ANNUAL CLEAN POWER CHAMPIONS CEREMONY



The 2019 Clean Power Champions and CEERT Executive Director V. John White



David Hochschild, Chair, California Energy Commission



Carl Pope and Lifetime Achievement Awardee Carl Zichella



James Sweeney (1948- 2020), Director of Legislation, Sacramento Chapter, Black American Political Association of CA; Matt Cate



Mary Nichols, Chair, California Air Resources Board

CEERT 2019 FINANCIAL STATEMENTS

CEERT Program and Administrative Expenses

CEERT Program Expenses

Core Renewable Energy Advocacy	\$768,376	
CPUC Regulatory Intervention	<u>61,940</u>	
<i>Subtotal, Program Expenses</i>	<i>\$830,316</i>	

Direct Program Expenses	\$830,316	76.0%
Administration and Overhead	<u>261,541</u>	<u>24.0%</u>

Total CEERT Core Organizational Expenses **\$1,091,857** **100.0%**

CEERT Sponsored Projects

Western Grid Group	\$244,791	
Latino Environmental Advancement Project	23,500	
Building Decarbonization Coalition	<u>1,156,636</u>	
<i>Subtotal, Sponsored Project Expenses</i>	<i>\$1,424,927</i>	

Total Program Expenses **\$2,255,243**



Kimber West, Controller

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Avangrid Renewables

Adrienne Alvord
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Carl Zichella
Natural Resources Defense Council



Front row: Erica Brand, Tom Starrs, Virinder Singh, Carl Zichella, Ed Smeloff; *Back row:* Nick Goodman, Bill Magavern, Will Barrett, Adrienne Alvord, Rey León, Arthur Haubenstock, Jim Caldwell, V. John White

AFFILIATES

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Avangrid Renewables

Baker Energy Team

Berkshire Hathaway Energy

Coalition for Clean Air

Cyrq Energy

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EDF Renewable Energy

Enel X

Environmental Defense Fund

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Union of Concerned Scientists

Westlands Solar Park

STAFF

V. John White
Executive Director

James Caldwell, Jr.
Technical Director

Sara Steck Myers
Regulatory Counsel

Megan Myers
Associate Regulatory Attorney

John Shahabian
Director of Operations

Kimber West
Controller

Carleigh Olsen
Policy Analyst

Peter Stern
Development Director

John Shears
Transportation Consultant

Cierra Fischer
Executive Assistant

Heather Taylor
Operations Assistant



Kimber West, Jim Caldwell, Megan Myers, V. John White, Carleigh Olsen, Peter Stern, Cierra Fischer

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Center for Energy Efficiency and Renewable Technologies

1100 Eleventh Street, Suite 311, Sacramento, CA 95814

916/442/7785 916/447/2940 FAX info@ceert.org www.ceert.org