

GRID ALTERNATIVES

Inland Empire



2022

GRID ALTERNATIVES INLAND EMPIRE IMPACT REPORT

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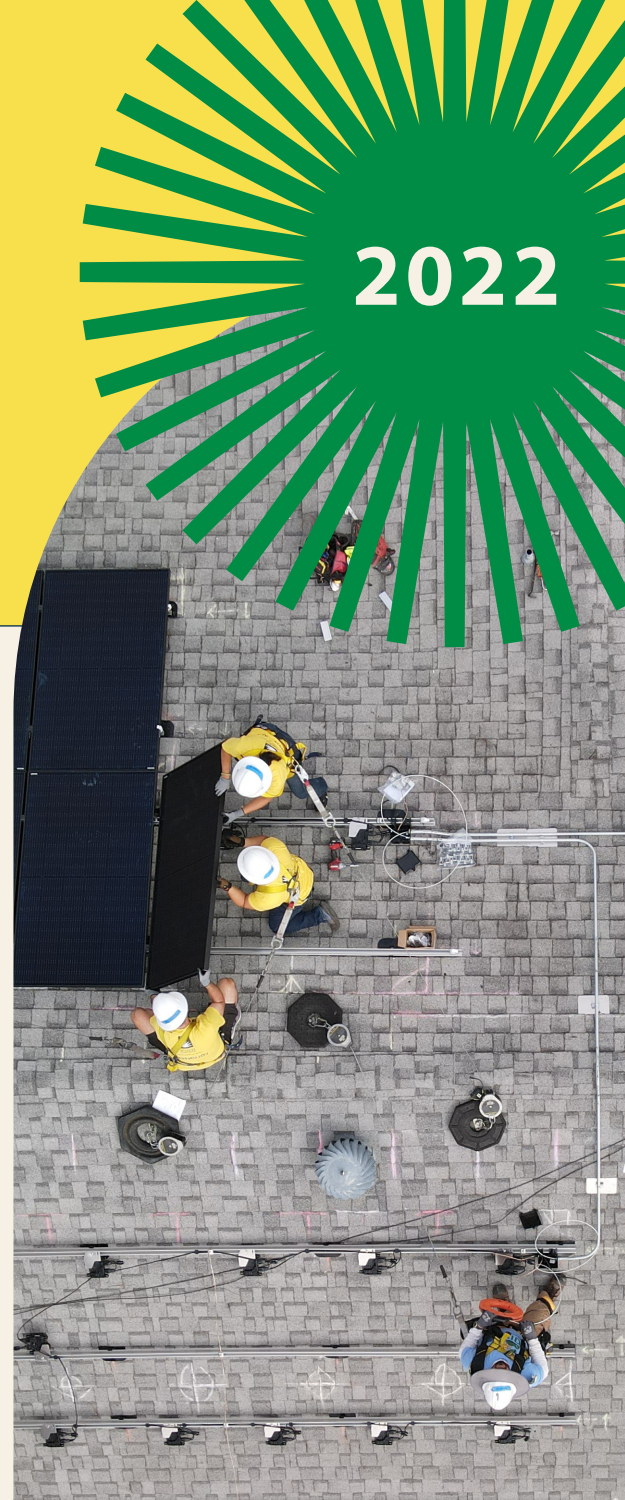


Newsletter

GRID ALTERNATIVES INLAND EMPIRE **2022 IMPACT REPORT**

2022

It's never been more important for families and communities to save money and for clean energy to prevail over fossil fuels. The pressures of the ongoing COVID-19 pandemic, economic instability, and climate disasters show that the benefits of renewable energy – **clean air to breathe, resilient families, and powerful communities – belong to everyone.**



SCE volunteers installing solar in Ontario California

\$12,209,749 / \$77,061,729

LIFETIME SAVINGS GENERATED IN 2022 / SINCE 2011

Our unique people-first model puts money back into families' and organizations' pockets so they can invest in their lives and their communities.

“

In 2022 we made significant progress following the challenges and circumstances created by the pandemic. In addition to exceeding our single-family residential installation goals by 20%, we also launched our Clean Tech Training Center to train the clean energy workforce our region needs, deepened our relationship with tribal nations, and expanded our Board of Directors. Thank you to our partners, individual contributors, and staff for all they did in 2022 to help GRID IE get closer to our end goal: a rapid, equitable transition to a world powered by renewable energy that benefits **everyone**.”

”

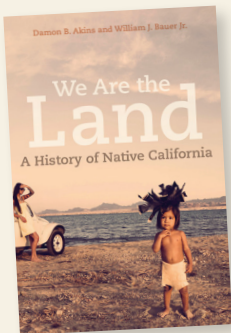


Jaime Alonso
Executive Director

BOOK RECOMMENDATION

We Are the Land: A History of Native California, by Damon B. Akins and William J. Bauer Jr.

Our partnership with, and work for tribal nations continues to flourish. And yet, there is so much we all can learn from the first people of California. *We Are the Land* centers the long history of California around the lives and legacies of the Indigenous People who shaped it. Working for tribal nations is an essential part of GRID's effort to build an equitable transition to a world powered by renewable energy that benefits all, and so I particularly found this book helpful in understanding the context driving the current organization and activism tribes are engaged in to realize energy sovereignty. The cover of this book also features a photo of two children of a Chemehuevi tribal homeowner we installed solar for - a personal connection between this book and our work.



OUR IMPACT



\$12,209,749 / **\$77,061,729**

LIFETIME SAVINGS GENERATED IN 2022 / SINCE 2011

Our unique people-first model puts money back into **families' and organizations'** pockets so they can invest in their **lives** and their **communities**.

206 / **2877**

SINGLE-FAMILY HOUSEHOLDS SERVED IN 2022 / SINCE 2011

The solar we installed in **2022** will prevent over **18,642 tons of greenhouse gas emissions**—adding to a combined 193,819 tons of greenhouse gas emissions prevented since 2011.

2 / **16**

COMMUNITY FACILITIES SERVED IN 2022 / SINCE 2011

Nonprofit organizations, multi-family affordable housing, and tribal communities are all **benefiting from solar savings** while bringing **job training opportunities** and **clean air** to their communities.

53,688,201 / **408,149,763**

LIFETIME KILOWATT HOURS PRODUCED IN 2022 / SINCE 2011

This translates into energy bill savings for the families and communities we work with. In addition, every kilowatt hour produced by one of our installed solar systems means less greenhouse gas polluting the environment.



18,642 / 193,819

TONS OF GREENHOUSE GAS EMISSIONS PREVENTED IN 2022 / SINCE 2011

It's difficult to understand tons of gas—it might be easier to imagine it as the equivalent of taking **37,095 cars** off the road or planting **4,600,000 trees**.

33 / 69

TRIBAL SOLAR INSTALLATIONS GRID IE / GRID-WIDE IN 2022

GRID Alternatives Inland Empire Tribal Program began in 2011. Working for tribal nations is an essential part of GRID's effort to build an equitable transition to a world powered by renewable energy that benefits us all.

384 / 4,194

PEOPLE RECEIVED HANDS-ON EXPERIENCE IN 2022 / SINCE 2011

From bringing back the in-person Solar Futures program to training individuals in tribal communities building local renewable powered solutions, GRID continues to be the first step in a life-long rewarding career.

4,940 / 16,024

TOTAL JOB TRAINING HOURS IN 2022 / SINCE 2011

Hands-on training provides individuals with real-world experience, while building local community powered renewable energy solutions. In 2023 we will double our training capacity with the Clean Tech Training Center.



2022 Sunshine Awards

On December 6th, 2022, GRID Alternatives Inland Empire held our annual Sunshine Awards to honor individuals and organizations advancing work that aligns with GRID's mission to transform lives by providing access to clean, renewable energy and hands-on job training.

Thank you for your continued support and partnership in helping to expand the vital work we accomplish in the Inland Empire by providing no-cost solar and job training to communities and individuals who need it most.

2022 honorees

The Sunshine Award for **Collaboration** goes to **Susan Gomez**, CEO Inland Empire Community Collaborative (IECC).

The Sunshine Award for **Environment** goes to **Robert Vance**, Housing Director Timbisha Shoshone Tribe

The Sunshine Award for **Equity and Justice** goes to **Steven Leash**, Director of Public Works, Cahuilla Band of Mission Indians

The Sunshine Award for **Workforce Development** goes to **Casey Heiser**, REAL Academy Instructor, Desert Hot Springs High School



GRID's Victoria Pacheco, Community Development Officer with City of Perris Mayor Michael M. Vargas

The Sunshine Award for **Public Partner** goes to **Mayor Michael M. Vargas**, City of Perris

The Sunshine Award for **Corporate Partner** goes to **Flor Tolley**, Wells Fargo VP, Senior Social Impact & Sustainability Specialist Southern California Region

The Sunshine Award for **Solar Champion** goes to **Jim Oana**, business owner, Energized Electric

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CTTC inaugural supporters at the ribbon-cutting performed by Cindy Corrales, GRID IE's Workforce & Volunteer Manager

Clean Tech Training Center ribbon-cutting

On December 6th, 2022, GRID Alternatives Inland Empire held our annual Sunshine Awards—this year also including the Clean Tech Training Center (CTTC) ribbon-cutting ceremony.

GRID Alternatives Inland Empire is answering the call to train the workforce for our growing clean energy economy.

We're building the **Clean Tech Training Center** at our Riverside facility. The growing clean energy industry needs clean energy workers. Solar installer jobs alone are expected to **grow 52% by 2030**, according to the Bureau of Labor Statistics. GRID IE is centering equity, inclusion, and diversity in providing access to the jobs of our clean energy future. Through these efforts, GRID IE envisions that the **CTTC** and our workforce programs will provide local job seekers the **opportunity to equitably participate in our growing clean energy economy.**



GRID IE construction staff performing a demonstration install on the CTTC's new mock roof

GRID IE honored the **Inaugural CTTC Supporters**, and each was presented with a commemorative plaque by **Jaime Alonso** and **Nika Hogue**, Development Manager.

Representatives from **U.S. Bank, Citizens Business Bank, Edison International, Kaiser Permanente, Bank of America, Pacific Premier Bank** and **Wells Fargo** accepted the plaques on behalf of their organizations. Their support was vital in providing the resources needed to build out the CTTC.

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Ontario SHINE is supported by California Strategic Growth Council's Transformative Climate Communities program with funds from California Climate Investments—Cap-and-Trade Dollars at Work.



GRID Alternatives Inland Empire is a lead entity in ongoing TCC grant-funded projects in the Cities of **Ontario** and **Riverside**.

Antonia Rojas

receives no-cost solar from
GRID IE and a surprise visit from
Senator Connie Leyva

700kW

CITY OF ONTARIO CALIFORNIA

SINGLE-FAMILY 165kWs of 360kW installed to-date

MULTI-FAMILY 294kWs of 340kW installed to-date

GRID Alternatives Inland Empire has been awarded **\$3,000,000** as part of the **City of Ontario TCC grant** to install 360kW of solar on 100 single-family homes and 340kW on multi-family affordable housing.

“Lately, the climate in the Inland Empire has become really hot.”

—says Antonia, a 33-year resident of Ontario, California

Like many, she has recently faced high energy bills due to extreme heat—except now, she no longer has to.

Antonia's home is one of one hundred to receive no-cost solar as part of the **California Strategic Growth Council's Transformative Climate Communities (TCC)** grant through **Ontario SHINE** and **GRID's Energy for All Program**. GRID IE is installing on 100 single-family homes in an effort to foster thriving Ontario households and neighborhoods, which also include programs like urban forestry and affordable housing.



Senator Connie Leyva presenting a Senate Certificate of Recognition to Antonia Rojas

To Antonia's shock, an unexpected guest arrived on the last day of her solar installation. *“I was so surprised to see Senator Leyva at my house!”* Antonia exclaims after accepting a Senate Certificate of Recognition from the State of California.

Similarly, **GRID Alternatives Inland Empire** received a certificate from Senator Connie M. Leyva for installing its thirty-eighth solar project in the **TCC Ontario SHINE initiative**.

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Riverside Eastside Climate Collaborative is supported by California Strategic Growth Council's Transformative Climate Communities program with funds from California Climate Investments—Cap-and-Trade Dollars at Work.



GRID Alternatives Inland Empire is a lead entity in ongoing **TCC** grant-funded projects in the Cities of **Ontario** and **Riverside**.



410kW_s

CITY OF RIVERSIDE CALIFORNIA

100 SINGLE-FAMILY HOMES

GRID Alternatives Inland Empire partners with the **City of Riverside** on the **Eastside Climate Collaborative**, having been awarded **\$1,988,000** to install **410kW_s** of free solar for 100 low-income homeowners.

Meet **Edwin Holt**, GRID IE's first **TCC Riverside** intern

In 2022 **GRID IE** welcomed its first TCC Riverside intern, Edwin Holt. Edwin had previously participated in and completed GRID IE's **Virtual Installation Basics Training (VIBT)** program, thanks to funding awarded from the California Community Reinvestment Grants Program in partnership with **Center for Employment Opportunity (CEO)**.

For VIBT, he committed to 40 hours of online courses covering construction safety, electrical basics, array installation, and system operations. **Edwin excelled** and put his classroom learning into practice, joining the GRID IE installation crew on roofs installing solar for homeowners across the Inland Empire.

Edwin was integral to the fundraising activities supporting GRID IE's new **Clean Tech Training Center (CTTC)**, acting as a spokesperson and graduate of GRID's training programs.

Sandra Romero, GRID IE's Workforce & Volunteer Program Specialist was integral in finding Edwin—she asked Edwin if

he'd be willing to be interviewed. He agreed, and shared:

Why are you interested in solar?

"I believe a green state is the way to go. We're having so many fluctuations in the economy, and people need a break. Solar energy is going to change a lot of things. I believe it's a great career to get into; it helps the planet—and is the way to go."

What were you most excited to learn during your internship?

"Everything, everything that GRID has to offer. From customer care to the way the installation is, to the electrical aspect of it. I'm really excited to learn everything in the industry."

Upon completion of his internship with GRID IE, Edwin found **full-time employment** in the commercial solar installation industry.

GRID Alternatives Inland Empire has partnered with the **City of Riverside** and **Riverside County Workforce Development** to provide Riverside residents the opportunity to participate in solar construction internships through the **TCC Riverside** grant. These internships are designed to provide hands-on solar installation training over the course of 12 weeks, and to get trainees ready to enter the solar industry.

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Roberto Canchola with his new solar main panel

Jurupa Valley Local **Roberto Canchola** Benefits from GRID IE's **Energy For All Program**



Roberto Canchola's new drought-tolerant garden and solar system

"My last month's electric bill was \$22, and this month's was just \$4!"

—Roberto Canchola happily exclaims.

Roberto, a retired resident of Jurupa Valley, joined GRID's family in June of 2021 after learning the news that he and his wife qualified to receive solar through GRID's Energy For All program.

Thanks to a local program in Jurupa Valley, a drought-tolerant garden now flourishes where a long-forgotten grass lawn had once required significant amounts of water to maintain. Above the growing California native plant garden, an array of solar panels sits on the roof, absorbing the abundant sunlight shining down on their home.

The roof condition of the Canchola home did not meet solar suitable standards.

GRID IE's Outreach Team was able to use a grant from the **Golden State Environmental Justice Alliance (GSEJA)** to cover the costs of roof repairs, allowing GRID to install his solar. **GSEJA** is a valued and long-time partner, funding installation for nine other Jurupa Valley residents and a total of **70 homes** in Inland Empire cities in 2021 and 2022 impacted by poor air quality.

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GRID IE and Bishop Paiute Tribe Reach Goal: Over 200 Homes with Solar!



The Bishop Paiute Tribal Environmental Management Office (EMO), in partnership with GRID Alternatives Inland Empire (GRID IE), announced they had met their goal of installing solar on over 200 out of a planned 400 homes for qualified Tribal members on the small reservation.

The Bishop Paiute Tribe, located at the foot of the Eastern Sierra Nevada Mountains, is committed to its self-sufficiency and self-reliance as a sovereign nation. The Tribe has developed a strong partnership with GRID IE since 2015. The EMO has sought to promote environmental stewardship through proactive approaches such as providing public awareness and collaboration with programs such as the GRID IE solar program.

"The no-cost solar power installations make an incredible difference in the everyday lives of our community members. The savings from the installations are making a real impact, especially for tribal members in the greatest need. This is a large step towards becoming more self-sufficient. We now look forward to expanding our continued partnership with GRID IE by adding a new goal of serving essential tribal facilities with resilient PV renewables and battery storage by 2025."

—said Mr. **Brian Adkins**, Tribal EMO Director.

The financial and environmental impact of the 200+ solar systems estimated over the system's 20-year lifetime is expected to **save** Tribal homeowners nearly **\$3,000,000 in energy costs**. The estimated **reduction in greenhouse gas is 6,250 tons**, equivalent to planting over **145,000 trees** or taking **1,200 cars** off the road for one year!

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No-cost solar systems and job training for the Timbisha Shoshone Tribe

Solar power is making an incredible difference in people's lives.

For the Timbisha Shoshone Tribe in Death Valley, the installation of no-cost solar photo voltaic systems on five homes has made a measurable difference in the daily lives of the residents. All of the recipients live in low-income households, including elders, a veteran, and a disabled member of the Tribe.

Robert Vance, Housing Director of the Timbisha Shoshone Tribe, commented:

"The overall program is very beneficial to our community as the majority of our residents are very low income and when the summer temperatures are 120-125°F, without the solar they might have to choose how long they run their coolers."

In addition, this project has provided tangible training for Vernon and Landin—two local members of the Tribe (pictured above right).



Lisa Castilone, GRID IE's Community Development and Tribal Manager (left) with Robert Vance (right) and member of the Timbisha Shoshone Tribe



Robert Vance then followed up:

"The trainee positions are very valuable as it provides real hands-on experience in working with solar."

On-the-job training provided during important projects such as this can lead to further employment and high-paying careers in the growing solar industry.

IMPACT OF THIS PROJECT

663,740 kWh of electricity produced over the life of the system

\$156,649 of energy savings over the life of the system

378 tons of greenhouse gases were eliminated over the life of the system

73 cars taken off the road (equivalent)

8,801 trees planted (equivalent)

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Wells Fargo and GRID IE team up on the Cahuilla reservation

Toward the end of 2022, Wells Fargo and GRID Inland Empire collaborated in two successful Team-Building Sponsored Volunteer Workdays.

Through this corporate partner opportunity, which funded support of GRID IE's work, members from Wells Fargo experienced hands-on service by installing solar for families that would benefit most from savings in their energy bills.

Lisa Castilone, the Community Development and Tribal Manager at GRID IE, shares the importance of supporting tribal projects:

"The funding provided by the Wells Fargo Foundation for GRID renewable energy projects is vital. Many tribes (in CA) are low-income and do not have equal access to state funding and programs. Wells Fargo has created a pathway for GRID to install solar on the homes of the most vulnerable; low-income tribal elders. The funds provided by Wells Fargo were applied to the first single-family solar energy project on the Cahuilla reservation. The financial savings, tribal job training opportunities, and environmental impacts will have long-lasting effects in the tribal nation."



GRID IE staff and Wells Fargo volunteers in front of the brand new solar installation at the Cahuilla reservation.

Flor Tolley, Philanthropy & Community Impact Specialist at Wells Fargo, shared:

*"We love what GRID does – from workforce development and sustainability work, to helping homeowners reduce climate impact and to save money on their energy bills. GRID Inland Empire gives us the opportunity to work with our own team members who want to **volunteer and help give back to the community**."*

***GRID IE is the perfect partner**, and we're really thrilled to be here and make a difference for this family!"*

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Thank you, **Southern California Edison** volunteers!



SCE volunteers, including President and CEO Steven D. Powell (pictured above and right), installed a 5.2kW system for the Nesar family and a 5.5kW solar system for the Barcenas family in the City of Ontario, California.

Over the system's lifetime, the Nesar household will save over \$31,000 in energy costs, and the Barcenas household will save over \$33,850. A combined savings of over \$64,850!

Both families are excited to join the renewable energy movement and help the planet while reducing their energy bills. **Their systems have the environmental impact of removing 170 tons of carbon from the air—equivalent to planting 3,957 trees!**

Helping People Live Affordably

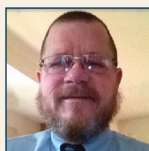
Nearly 30% of owner-occupied households are considered low-income, and these families have to make hard decisions every day about how to spend their limited resources. Solar power helps people live more affordably in their homes and contributes to their long-term financial security.

With the volunteerism of **Southern California Edison** and funding support from **Edison International**, GRID IE is bringing the benefits of solar to the families that need it most.

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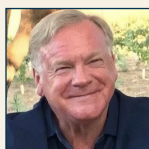


GRID IE Board Members



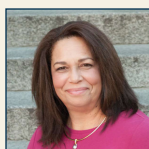
George E. Puddephatt, President, *Board Member since 09/2018*

George Puddephatt is a highly skilled nonprofit and government-sector manager with over 25 years experience. He was pivotal in developing solar workforce training programs with Riverside County Workforce Development Center as well as securing grant and investment funding for the development of special needs housing projects.



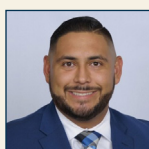
Blaine Boyer, Treasurer, *Board Member since 09/2018*

Blaine Boyer has an extensive career in education. For the past 20 years he has been a teacher at Rancho Vista Continuation High School in Temecula where some of his accomplishments include receiving 'Teacher of the Year' awards and receiving \$10,000 in grants to create a Solar/Green energy program.



Michelle Pierce, Secretary, *Board Member since 09/2018*

Michelle Pierce is an Electric Vehicle Consultant who formed her company, EV Nirvana, LLC, in 2016 to encourage the use of plug-in electric vehicles. EV Nirvana offers consulting and outreach services with a focus on teaching customers about electric cars.



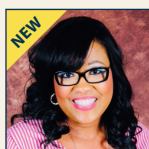
Alexander Saucedo, *Board Member since 01/2019*

Alex Saucedo has been a financial services leader for the past 10 years with a strong passion to making positive impacts on team members, customers and the communities he serves. He is currently a Community Banking Manager at U.S. Bank in Rancho Cucamonga.



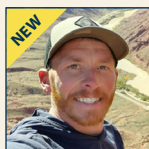
Kari H'Orvath, *Board Member since 11/2022*

Kari H'Orvath is a real estate broker licensed since 2004. She received her B.A. Degree in Business Administration and a certificate in Leadership Studies from California Baptist University. Kari is the director of homeownership and education programs at Habitat for Humanity Inland Valley.



Vikita Poindexter, *Board Member since 11/2022*

Vikita Poindexter, SPHR-CA, SHRM-SCP, SHRM-CP, CEO, Poindexter Consulting Group, LLC: Known throughout her 35-plus years' career as the consummate professional and go-to person for Human Resources. Vikita is acknowledged as an expert in her field. In addition, she is a much sought-after public speaker.



Tracy Woodburn, *Board Member since 11/2022*

Tracy Woodburn is a skilled and passionate solar professional. He got his start in the industry as a volunteer for GRID Alternatives, where he completed two internships and honed his skills. With 7 years of experience, Tracy holds several NABCEP certifications, which recognize his expertise in the field of solar energy.

GRID IE's Board of Directors plays an important role in helping the organization establish its place in the community and help grow the mission impact.

Board members attend regular meetings every quarter, periodic special meetings and serve on at least one of the Board's standing committees.

In 2022 GRID IE welcomed three new members, Kari H'Orvath, Vikita Poindexter, and Tracy Woodburn, to the board.

Click or tap here,
or scan QR code below to
see more about our board.



SUPPORTERS

GRID Alternatives Inland Empire's government grants, corporate partnerships, foundation investments, tribal partners, and community leadership empower local, sustainable solutions and our mission to make renewable energy technologies and job training for the growing clean energy economy accessible to **EVERYONE**. Thank you to all our supporters that help fund critical programs and services that bring our shared vision to reality.

Our top supporters in 2022 included:

NATIONAL PARTNERS

Wells Fargo Foundation

The JPB Foundation

Ann Theodore Foundation

Sunrun

Enphase

American Honda Motor Co.

GOVERNMENT PARTNERS

California Department of Community Services and Development (CSD)

California Air Resources Board (CARB)

California Public Utilities Commission (CPUC)

California Governor's Office of Business & Economic Development

California Climate Investments

California Strategic Growth Council (SGC)

U.S. Department of Energy (DOE)

California Governor's Office of Planning and Research (OPR)

Riverside County Economic Development Agency

TRIBAL PARTNERS

Bishop Paiute Tribe

Santa Rosa Band of Cahuilla Indians

Soboba Band of Luiseño Indians

Chemehuevi Indian Tribe

Timbisha Shoshone Tribe (Death Valley)

Torres Martinez Desert Cahuilla Indians

Big Pine Paiute Tribe of Owens Valley

\$1,000,000 - \$3,000,000

City of Ontario

City of Riverside

\$100,000 - \$200,000

Foundation for Food and Agriculture Research

Golden State Environmental Justice Alliance

City of Moreno Valley

\$50,000 - \$75,000

Edison International

U.S. Bank



GRID IE staff and Wells Fargo volunteers installing solar at the Cahuilla reservation.

\$10,000 - \$49,999

Citizens Business Bank

Kaiser Permanente

Bank of America

\$5,000 - \$9,999

Pacific Premier Bank

Jobs for the Future