

# the power to change



INLAND EMPIRE  
2021 IMPACT REPORT



**GRID**  
ALTERNATIVES  
Inland Empire

# the power to change

## GRID ALTERNATIVES INLAND EMPIRE 2021 IMPACT REPORT

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, powerful communities – belong to everyone.

**\$3,722,552 / \$72,146,297**

### LIFETIME SAVINGS GENERATED IN 2021 / 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.

**175 / 2,501**

### SINGLE-FAMILY HOUSEHOLDS SERVED IN 2021 / SINCE 2011

The solar we installed in 2021 will prevent over **16,645 tons** of greenhouse gas emissions—adding to a combined **182,422 tons** of greenhouse gas emissions prevented since 2011.

**3 / 14**

### COMMUNITY FACILITIES SERVED IN 2021 / 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.

#### INLAND EMPIRE VISTA VERDE PROJECT ALL-ELECTRIC AFFORDABLE HOUSING COMMUNITY COMPLETED APRIL 1, 2021

Vista Verde is the first all-electric, zero net energy affordable housing community in Ontario, CA, providing 101 high-quality apartments for families who earn between 30-60% of the Area Median Income (AMI). GRID Alternatives Inland Empire staff and SolarCorps Fellows installed 380 kilowatts of solar, making the development both all-electric and zero net energy, meaning that it generates more energy than it uses. The rooftop and carport solar will save residents hundreds of thousands of dollars over the next 20 years.





# 34,187,207 / 384,602,222

**LIFETIME KILOWATT HOURS PRODUCED IN 2021 / 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.

# 16,645 / 182,422

**TONS OF GREENHOUSE GAS EMISSIONS PREVENTED IN 2021 / SINCE 2011**

It's difficult to understand tons of gas—it might be easier to imagine it as the equivalent of taking **34,913** cars off the road forever or planting **434,359** trees.

## **SUN ANZA COMMUNITY SOLAR PROJECT, SANTA ROSA INDIAN RESERVATION THE FIRST COMMUNITY-SCALE SOLAR ARRAY IN CALIFORNIA TARGETED TO AID LOW-INCOME HOUSEHOLDS COMPLETED OCTOBER 21, 2021**

Tribal Elder Vivian Hamilton has spent her entire life witnessing changes in her community. Recently, she took part in shaping its future. Built on reservation land, the Community Solar Project is the first community-scale solar array in California targeted to aid low-income households.

The nearly 1 megawatt array (994.6 kW DC, approximately 3,000 panels) was funded by a \$2 million grant awarded by the California Department of Community Services and Development (CSD); it will provide \$5.4 million in savings to benefit low-income members of the Anza Electric Cooperative (AEC). The project is part of the California Climate Investments, a statewide initiative putting billions of Cap-and-Trade dollars to work reducing greenhouse gas emissions, strengthening the economy, and improving public health and the environment — particularly in disadvantaged communities.

Electricity generated from the system not only benefits tribal households, but also provides electricity savings for up to 200 qualified low-income cooperative members in AEC's service territory. This project was a collaborative effort co-led with an essential tribal partner for the benefit of the surrounding community.



The Transformative Climate Communities (TCC) Program is part of California Climate Investments, a statewide program that puts billions of cap-and-trade dollars to work reducing greenhouse gas emissions, strengthening the economy and improving public health and the environment—particularly in disadvantaged communities.

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

# 700kW<sub>s</sub>

## CITY OF ONTARIO

**360kW<sub>s</sub> SINGLE-FAMILY & 340kW<sub>s</sub> MULTI-FAMILY**

GRID Alternatives Inland Empire and the City of Ontario partner in the TCC Ontario Solar Homes Initiative & Neighborhood Empowerment (SHINE) Program putting Cap-and-Trade dollars to work reducing greenhouse gas emissions. GRID Inland Empire has been awarded \$3,000,000 to install 360kW<sub>s</sub> of solar on 100 single-family homes and 340kW<sub>s</sub> on multi-family homes—which includes the Vista Verde project completed in 2021.

# 410kW<sub>s</sub>

## CITY OF RIVERSIDE

**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<sub>s</sub> of free solar for 100 low-income homeowners.



### **TCC ONTARIO SOLAR HOMES INITIATIVE & NEIGHBORHOOD EMPOWERMENT (SHINE) PROGRAM SOLAR INSTALLATION FOR ERMELINDO MAZARIEGO JUNE 25, 2021**

Three years ago, Mazariego sustained a back injury at work and had to cut back his hours. So when he received a letter from the City of Ontario about a free solar program, known locally as Ontario Shines, his interest was piqued.

Initially, Mazariego was skeptical that the program was actually free. To investigate whether there were any hidden costs, such as higher property taxes, Mazariego followed up with GRID Inland Empire, the lead partner for Ontario Shines, whose Outreach staff helped assuage Mazariego's concerns by sending him documentation on how everything would be financed—the solar panels would be provided through a prepaid model to Mazariego, which covers installation and warranties for the life of the solar system, all made available through TCC funds. The no-cost solar system would also not trigger liens or increase in property taxes for homeowners. Once Mazariego was confident there wouldn't be any surprise expenses, he was ready to go solar.





**CLEAN VEHICLE ASSISTANCE PROGRAM (CVAP)  
TRIBAL PILOT PROGRAM WITH THE TORRES MARTINEZ DESERT CAHUILLA INDIANS (TMDCI)  
APRIL, 2021**

The program brought clean vehicle information and electric vehicle (EV) charging technology to the tribal members living on the remote reservation. In a funded partnership with the Clean Vehicle Assistance Program (CVAP), GRID Alternatives Inland Empire installed a level-2 EV charging station and Community Development & Tribal Program Manager, Lisa Castillone created an educational outreach campaign to raise awareness about available funding and affordable financing for income-qualified community members to purchase or lease a new or used plug-in hybrid or electric vehicle.

Torres Martinez Desert Cahuilla Indians Vice Chairman Joseph stated “This project is going to establish the importance of sustainability to tribal members in their day-to-day activities” as he expressed gratitude for the partnership with GRID Alternatives Inland Empire and the positive impact on their tribal community. He continued, “80% of the homes have been equipped with solar and we look forward to future projects such as senior housing, a health clinic, and setting up more arrays in areas to help tribal members save money and help the environment at the same time”.

**28 / 109**

**TRIBAL SOLAR INSTALLATIONS  
GRID IE / GRID-WIDE IN 2021**

Outreach for the GRID Alternatives Inland Empire Tribal Program began in 2011. The first of many milestone projects was in partnership with the Palm Desert Redevelopment Agency to serve 152 homeowners living in the Desert Rose affordable housing development.

**197 / 604**

**EV CHARGER INSTALLATIONS  
GRID IE / GRID-WIDE IN 2021**

2021 was the year GRID Clean Mobility kicked into high gear. The benefits of electric vehicles, especially when paired with solar, drive families into a clean future, replacing gasoline with sunshine and reducing local air pollution. Over 600 households made the transition in 2021.



**ARROYO VALLEY HIGH SCHOOL, SAN BERNARDINO, CALIFORNIA**  
**CORE ACADEMY IN-PERSON CLASS**  
**NOVEMBER 2021**

GRID Alternatives Inland Empire was quick to respond at the onset of the pandemic, successfully adapting our Solar Futures program to a virtual learning curriculum without missing a single semester. Doing so allowed us to continue to provide solar education and training to students, giving them much needed hope for a brighter future.

Cynthia Corrales, Workforce & Volunteer Manager recalls, “Since we were unable to conduct solar builds with our students as we had in previous school years, we integrated more in-depth training on tools, personal protective equipment, and the installation process virtually to simulate what they’d be learning out on our build sites.”

GRID Alternatives Inland Empire came back in a big way in November 2021, teaching an in-person cohort of 100 students at Arroyo Valley High School CORE Academy in San Bernardino, CA. CORE stands for Constructing Opportunities in Renewable Energy and enrolled students have the chance to learn about green technologies. The Solar Futures program helps students increase their knowledge and skills while engaging in solar education campaigns, and solar installation projects for low-income community members. Students are once again connecting classroom learning with real-world experiences and hands-on projects.

**355 / 3,871**

**PEOPLE RECEIVED HANDS-ON  
EXPERIENCE IN 2021 / 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, and on track to add training on electric vehicle and battery energy storage systems.

**5,000 / 15,806**

**TOTAL JOB TRAINING  
HOURS IN 2021 / SINCE 2011**

With hands-on training on solar installations, individuals gain real-world experience and tangible skills while building local community powered renewable energy solutions. GRID IE will nearly double training capacity with the Riverside location training center build-out to launch the Clean Tech Training Center in 2022-2023.



## SUPPORTERS

GRID Alternatives Inland Empire's government grants, foundation investments, corporate partnerships, and community leadership empower local sustainable solutions and the mission to make renewable energy technologies and job training for the growing green 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 2021 included:

### NATIONAL PARTNERS

Bank of America

The JPB Foundation

Sunrun

Enphase

California Strategic Growth  
Council (SGC)

U.S. Department of Energy  
(DOE)

Riverside County Economic  
Development Agency

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

City of Ontario

City of Riverside

### 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

### 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

**\$100,000 - \$200,000**

Golden State Environmental  
Justice Alliance

City of Moreno Valley

**\$50,000 - \$75,000**

Edison International

Sempra Energy

**\$10,000 - \$49,999**

Wells Fargo Foundation

Citizens Business Bank

U. S. Bank

**\$2,500 - \$9,999**

Pacific Premier Bank

Milestone Media

Anza Electric Cooperative

