



Agenda

- Need and opportunities
- Overview of GRID **Alternatives**
- GRID's solar services
- Solar Affordable **Housing Program for** low-income homeowners
- How to partner with **GRID**





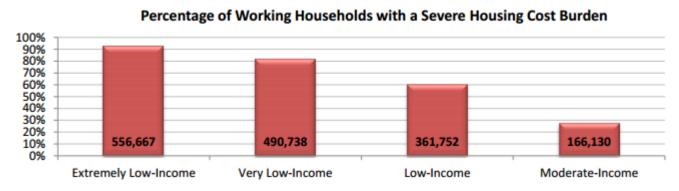
The Need

Housing burden

 Over 60% of low-income working households have severe housing cost burden (pay ≥50% of their income on housing expenses, including energy bills)

Energy burden

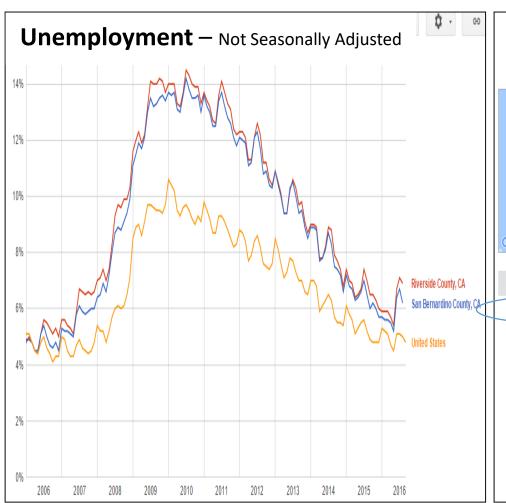
• Low-income families pay 2-3x more on energy costs as a proportion of their income



Source: http://www2.nhc.org/California.pdf



Local Issues: Unemployment & Air Pollution



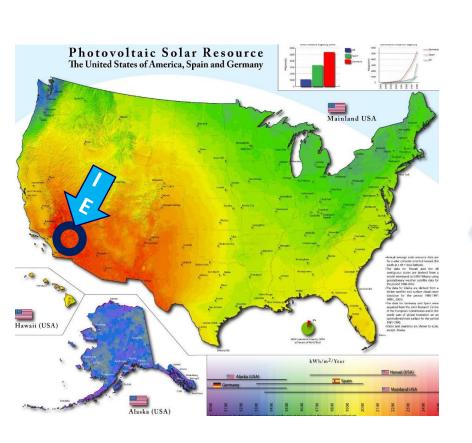








Opportunities: Solar Resource & Solar Industry Job Growth





Source: The Solar Foundation's National Solar Jobs Census 2015



About GRID Alternatives

- Nation's Largest Solar Non-Profit
 - 13 Regional Offices Across the US (CA, CO, NY/Tri-State, DC/Mid-Atlantic) National Tribal Program, Women and Veteran initiatives, supporting youth and re-entry in workforce!
- Provides Solar Solutions for Underserved Communities
 - Over 8,700 solar projects installed for low-income residents throughout the country
- Workforce Development and Volunteerism Model
 - Over 32,000 individuals have been provided with hands-on training
- Economic and Environmental Benefits
 - Generate over \$258 million worth of clean, renewable power
 - Eliminate over 695,000 tons of greenhouse gas emissions



Our Vision



A successful transition to clean, renewable energy that includes everyone.



GRID's Solar Services

| Type of Service | Single- family (Low-income homeowners) | Multifamily (Affordable multifamily housing owners) | Commercial (Mission-aligned nonprofits) |
|---------------------------------|---|---|---|
| Technical Assistance | | X | X |
| Design & Installation | X | X | X |
| Workforce Development | X | X | X |
| Resident Education & Engagement | X | X | X |



GRID's Multifamily Services

Technical Assistance

- GRID can help multifamily owners go solar by providing them with technical assistance.
- Available at no cost to all owners of affordable multifamily housing nationwide.

Design & Installation Services

 GRID is a licensed solar contractor and can provide design and installation services.

Workforce Development and Resident Engagement

 GRID provides residents and local volunteers with workforce development opportunities. GRID can also provide energy efficiency and solar education opportunities for residents.



Technical Assistance

- Make it easy for owners of affordable multifamily housing to get solar by providing technical assistance at <u>no cost</u>
 - Assess the properties in your portfolio
 - Determine if PV is feasible for your buildings (system sizing, pricing, payback)
 - Help identify financing solutions for existing, new construction, and building rehab
 - Other services to promote solar implementation (e.g., owner representation, RFP development, bid analysis, design assistance)
 - Offer GRID installation and community engagement model



Funded by The JPB Foundation



Design & Installation

- Provide <u>turnkey solar PV systems</u>: Design, permits, installation, inspections, interconnection, monitoring
- Workforce development / hands-on job training: Can also fulfill HUD Section 3 requirements for MF units







Workforce Development

- GRID provides a "classroom in the field" for job trainees, giving students hands-on experience in the rapidly growing field of solar installation
- Workforce Development Partnerships, such as C.E.T. and C.O.D.
- Volunteer, Installation Basics Training, and Team Leader Certified Programs







Leveraging Funding for Solar Projects

| Funding Source | Single-family | Multifamily |
|----------------|-----------------|-----------------------------------|
| CPUC: | SASH | MASH |
| State: | CSD (DAC) | LMF (DAC); <i>AB 693 (DAC)</i> |
| Regional: | Utility rebates | Utility rebates |
| 3rd Party: | PPA/lease | PPA |
| Other: | Donors | Donors |



Low-Income Homeowner Eligibility Criteria

- 1. Own and live in home
- 2. Income qualified: ≤ 80% limits
- 3. Solar appropriate roof (free inspection)
- 4. If MSP needed GRID pays
- 5. IID meter change GRID pays
- 6. No SS#, No Credit Check
- 7. IID System owned, no TPO

| Household Size | Maximum Household Income |
|-------------------|--------------------------------|
| 1 | \$37,550 |
| 2 | \$42,900 |
| 3 | \$48,250 |
| 4 | \$53,600 |
| 5 | \$57,900 |
| 6 | \$62,200 |
| 7 | \$66,500 |
| 8 | \$70,800 |
| | |

(2016 San Bernardino County & Riverside County Income Guidelines)



Resident Education & Engagement

- Education on energy efficiency, utility process and solar
- Referral to ESA, CARE and other low income EE programs
- Warranty of 10 yr labor; 20 yr equipment manufacturer





Solar Affordable Housing Program for Low-Income Homeowners

Homeowner Benefits:

- 50-75% reduction on IID bill
- Increase property value
- Doesn't raise property tax
- Community building and engagement

Local Worker Benefits:

- FREE Solar Job Training:
 - No experience needed
 - Hands-on with all equipment, materials, and lunch provided
 - Ages 16+ (18+ to be on roof)
 - Job placement support
 - Women encouraged to apply







SF Program HS Students & Youth

Solar Future Program

- In-class and on the job training taught by GRID staff. 16 and older, 18 to go on rooftop.
- Students gain <u>real-world job skills</u> while giving them exposure to solar career opportunities
- Participating 2017: Jurupa Valley, Palm Desert, John Muir Charter, Norte Vista, Desert Hot Springs, Learn 4 Life Charter, Riverside, Palm Desert, and NOLI Indian HS
- Indio 2017-2018?





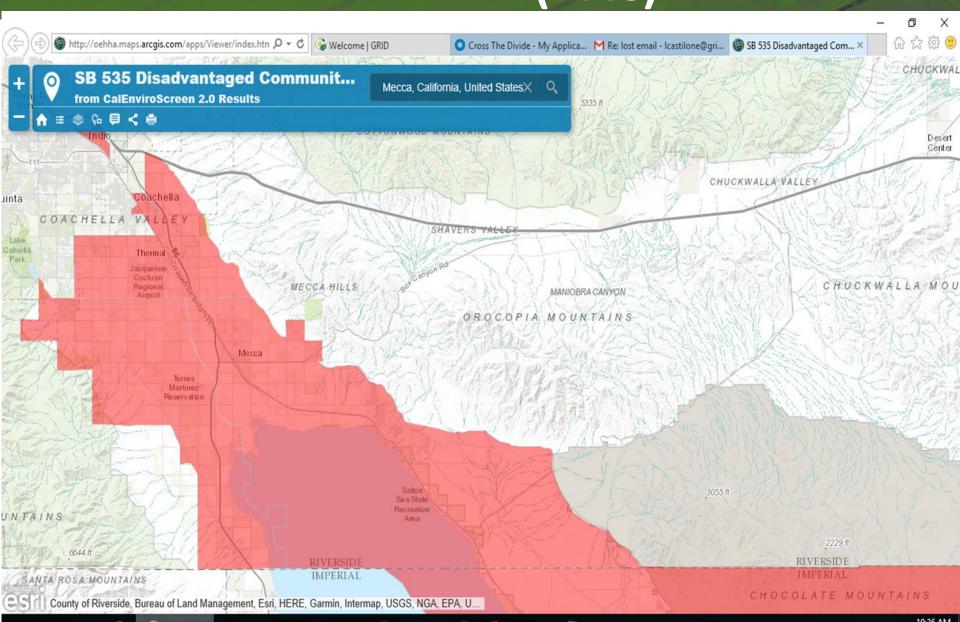
Low-Income Homeowner Costs

| | SOLAR COMPANY | HERO/YGRENE/ PACE | GRID ALTERNATIVES |
|-----------------------------|------------------|----------------------|----------------------|
| CREDIT SCORE | Required | Required | Not Required |
| LOANTERM | 15 years | 15 years | None |
| INTEREST RATE | 4% | 6% | None |
| SUBTOTAL COST | \$21,303 | \$24,303 | \$0 |
| FEDERAL TAX CREDIT (30%) | (-\$4,800) | (-\$4,800) | None |
| TOTAL COST | \$16,503 | \$19,503 | \$0 |
| YOU START SAVING | 9.6 years | 11.3 years | lmmediately |

Costs associated with a typical system size (4 kW-AC). Lifetime savings: \$43,000



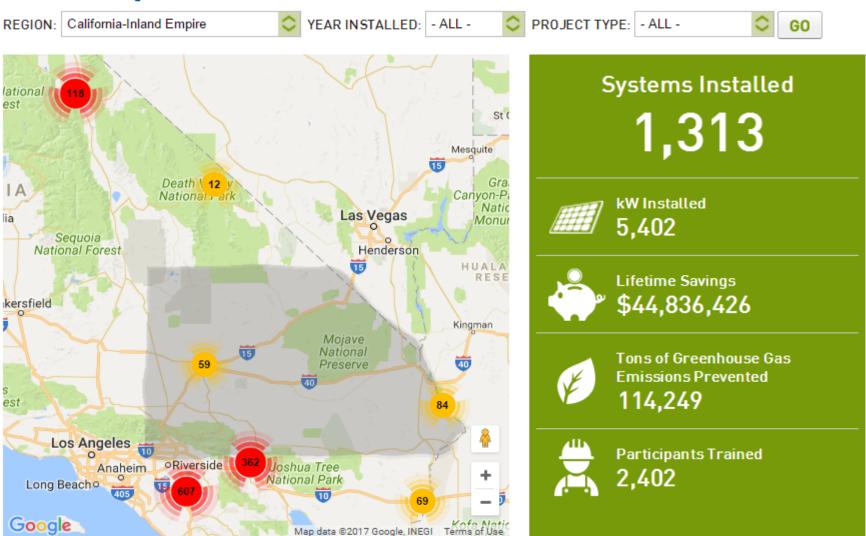
Disadvantaged Communities (DAC)





GRID's Impact in the IE

Our Impact





Some Representative Regional Supporters & Partners













































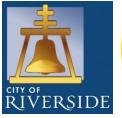
















How to Partner with GRID

1. Engage

- Set up interest call/meeting with GRID to discuss goals & set expectations
- Make decision to proceed with partnership
- Provide City Council Resolution of support

2. Promote

 GRID/City promote programs to residents, building owners, nonprofits

3. Implement

- Single-family:
 GRID provides
 homeowner
 education,
 designs, permits
 installations,
 inspections,
 interconnections,
 monitoring, job
 training
- Multifamily & Non-residential: Same as above plus technical assistance

4. Track & Celebrate

- GRID provides annual update on impact in City
- GRID/City celebrate successes in bringing solar, savings, and job training to community



People. Planet. Employment.





Contract License No. #867533 Nonprofit ID No. #26-0043353

Are you a homeowner who wants NOCOST solar?

Do you live in the RED zone?

Is your yearly income below the chart listed?

You may qualify for a state-funded No Cost solar electric system!

Easy Solar Program Application

- No social security number required

- No loan or lien on your home
- No credit score or high electric bills needed
- Cut your electricity bill up to 75%

| Household Size | Maximum <u>Income</u> |
|-------------------|--------------------------|
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