

2024 Energy Law Conference

April 19, 2024

MCLE: 1.25 Hours

Panel 5: Centering Equity and Prioritizing Consumers in Clean Energy Program Design

Moderator: Alison La Bonte

Speakers: Arthuir Bart-Williams, Claudia Polsky, and Alvaro
Sanchez

Conference Reference Materials

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Centering Equity and Prioritizing Consumers in Clean Energy Program Design

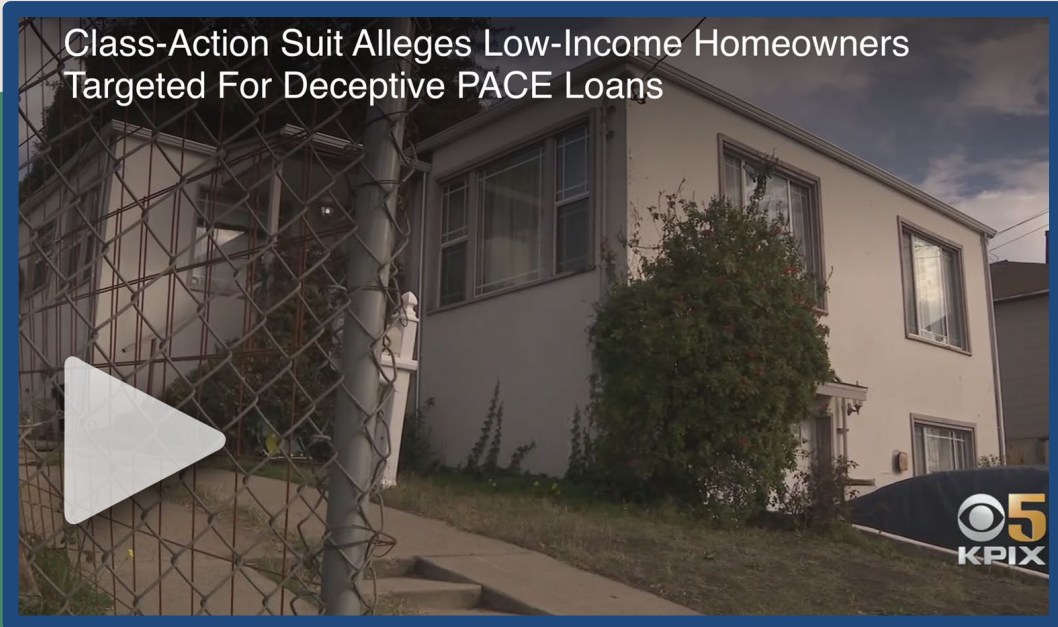
Arthur Bart-Williams, Executive Director, Bay Area, GRID Alternatives

Claudia Polsky, Clinical Professor of Law and Director, Environmental Law Clinic, Berkeley Law

Alvaro Sanchez, Vice President of Policy, Greenlining Institute

Moderated by Alison LaBonte, Founder & Principal, a la bonte advisors (Alba)

Poor “R-PACE” program design =>
financial predation & foreclosure
from clean energy retrofits



LAST WEEK TONIGHT
PACE: Last Week Tonight with John Oliver (HBO)
Watch I



The Dark Side of the Sun

How PACE Financing Has Under-Delivered Green Benefits
and Harmed Low-Income Homeowners



Berkeley Law | Environmental Law Clinic
February 2021

Solar Access Act: well-designed upscaling of residential clean energy

CALIFORNIA ENERGY COMMISSION

Enter keywords, e.g. Energy Code

HOME PROCEEDINGS RULES AND REGULATIONS PROGRAMS AND TOPICS FUNDING DATA AND REPORTS

California Energy Commission > Programs and Topics > All Programs > Residential Solar Permit Reporting - SB 379

Residential Solar Permit Reporting – SB 379

The Energy Commission's reporting hub for California cities and counties to annually provide data about online, automated solar permitting

RELATED LINKS

- Docket Log (21-SOLAR-01)
- California Automated Permit Processing Program - CalAPP

SolarAPP+ **NREL** Transforming ENERGY

For Jurisdictions For Installers About SolarAPP+

MORE THAN 160 COMMUNITIES

Are Automating Permitting with SolarAPP+™

[Read the Department of Energy Article](#)

SolarAPP+ lowers the cost of solar

System type	Average cost to homeowners today	Savings in typical municipalities	Savings in challenging municipalities
Solar	\$21,120	\$1,228	\$2,572
Solar + storage	\$33,620	\$2,270	\$5,120

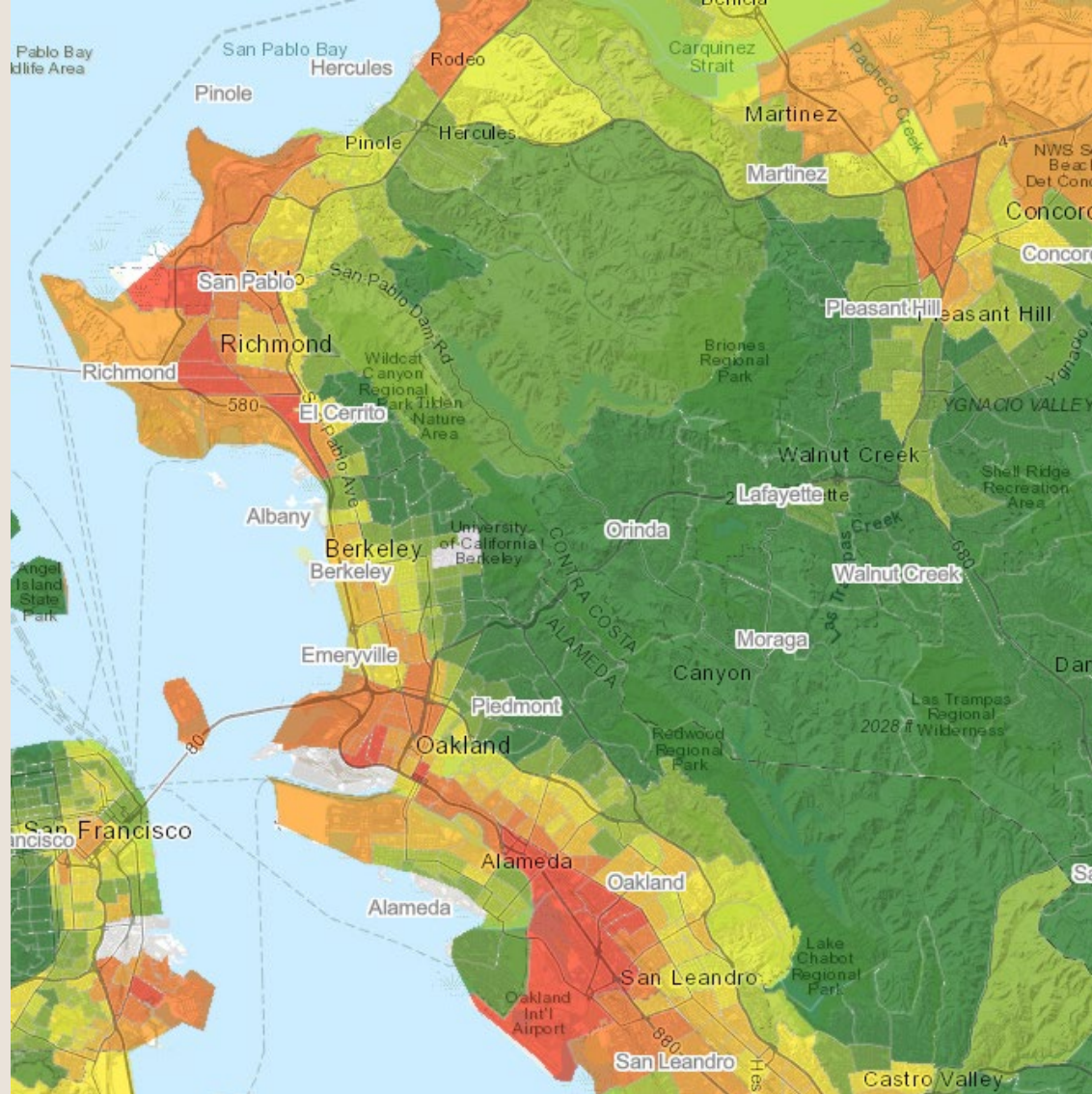
Increase in middle-income homes that become willing to go solar due to SolarAPP+

System type	Typical municipality	Challenging municipality
Solar	7%	16-17%
Solar + storage	7-10%	22-25%

Source: Flagstaff Research, for CALSSA

DAC-SASH - Disadvantaged Communities-Single-Family Affordable Solar Housing Program

DAC Areas - CalEnviroscreen 4.0 Map



Income Qualifications

Household Size	Maximum Income
1-2	\$39,440
3	\$62,150
4	\$75,000
5	\$87,850
6	\$100,700
7	\$113,550
8	\$126,400

Guidelines

	SASH	DAC-SASH
Affordable Housing Requirement	Yes	No
DAC Requirement	No	Yes
Income Eligibility	80% of area median income or less	CARE/FERA (200% of FPL or less)
Sizing Requirement	1 kW – 5 kW	
Incentive	\$3/watt	
Installer Job Training Requirement	Yes	
Third-Party Ownership Financing Allowed	Yes	

DAC-SASH Challenges

Program Penetration by GRID Regional Office, Maximum Distance						
GRID Regional Office	Distance Assumed (mi)	Total Households Served by IOU	Total DAC Households Served by IOU	Estimated DAC-SASH Eligible	Total Program Participants	Program Penetration
Bay Area	89	2,896,332	311,330	16,000	208	1.3%

Concerns When Deciding Whether to Participate



Reasons for Inactivity

Inactive Reason	Detailed Reason	Percent of All Inactive Customers
Home not solar-ready	Roof Issues (Unsafe, repairs needed, or too small)	43%
	Code barriers	13%
	Solar shading	8%
	Other professional services needed	4%
Not interested	Not interested in program	20%
	GRID lost contact with customer	10%
Eligibility	Not eligible	6%
	Energy usage too low	3%
	Other ineligible	3%

Source: Process and Load Impact Evaluation of the Disadvantaged Communities-Single-Family Affordable Solar Housing Program submitted by Evergreen Economics April 28, 2023; Brightline Group

DAC-SASH Benefits

Estimated Annual Savings Per Home

Savings	Gross Estimated Annual Savings	NTG Adjustment (net / gross)	Net Estimated Savings (after NTG adjustment)	Percent of Savings	N Observations
Annual Energy Savings	4,577 kWh	1.132	5,179 ± 28 kWh	68%	2,425,533
Annual Bill Savings	\$870	1.177	\$990 ± 6	94%	2,528,294

Distribution of Estimated GHG Impacts by IOU

IOU	CO ₂ Emissions Savings [MTon CO ₂]	CH ₄ Emissions Savings [kg CH ₄]	NO _x Emissions Savings [kg NO _x]	CO ₂ e Emissions Savings [MTon CO ₂ e]
PG&E	1,415	44	5.4	1,417
SCE	556	17	2.1	557
SDG&E	56	1.7	0.2	56
TOTAL	2,026	63	7.7	2,030

Source: Process and Load Impact Evaluation of the Disadvantaged Communities-Single-Family Affordable Solar Housing Program submitted by Evergreen Economics April 28, 2023; Brightline Group

Transformative Climate Communities

“Felt impact” seems strongest when publicly funded climate projects are community-driven and well-coordinated. Examples:

- Transformative Climate Communities (TCC)
- Community Solar
- Affordable Housing and Sustainable Communities (AHSC)
- Forest Health



TCC uses collaborative governance structures that center residents in decision-making to define their own goals and solutions

Additional Slides

Structure for Collaborative Partnership









Strategy 3:
Transit Access and Mobility
3.1: Active Transportation

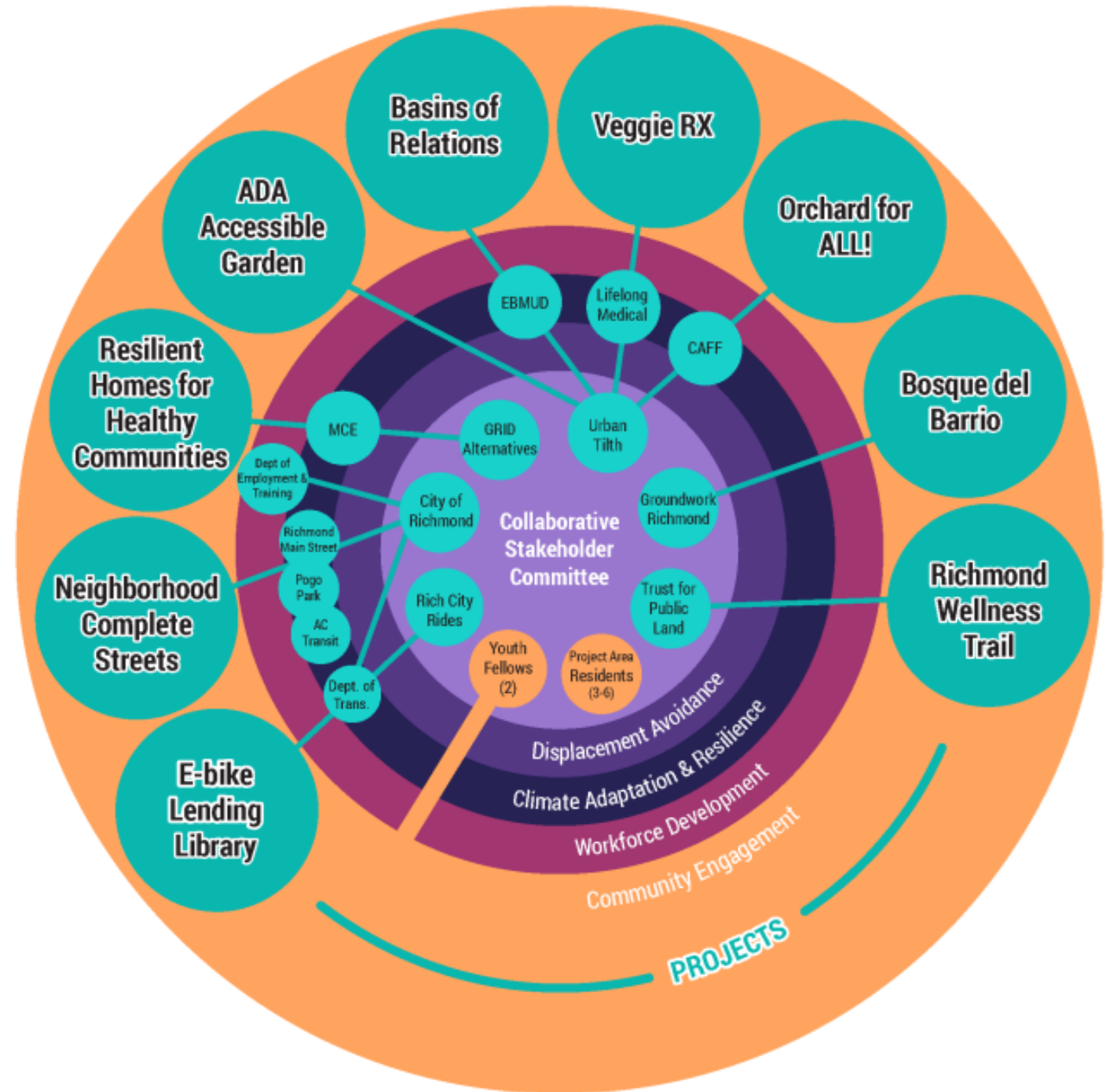
Strategy 4:
Solar Installation & Energy Efficiency

Strategy 5:
Water Efficiency

Strategy 7:
Urban Greening & Green Infrastructure

Strategy 9:
Health and Well-Being

-  Neighborhood Complete Streets
-  Richmond Wellness Trail: Phase 2
-  E-Bike Lending Library
-  Resilient Homes for Healthy Communities
-  Basins of Relations
-  Bosque del Barrio
-  ADA Accessible Garden
-  Orchard for ALL!
-  Veggie RX



Renew Rodeo

An Environmental Justice and Climate Adaptation Project

GRID Alternatives, Bay Area

Central Rodeo Neighborhood

EPA IRA Disadvantaged Community

Census Tract Block Group 060133580004



Rodeo Citizens Association



- 1** Laurel Court Agrovoltatics Community Garden and Learning Center
Rodeo Citizens Association Laurel Court Site
- 2** Rodeo Creek Pedestrian Improvements
Rodeo Creek
- 3** Rodeo Town Center Park
Parker and Railroad Avenue
- 4** Brownfields to Brightfields Community Solar and Battery Storage
Phillips 66 Refinery
- 5** Zion Hills Community Solar and Battery Storage
Zion Hills Baptist Church
- 6** New Horizons Solar and Battery Storage + Workforce Development Programs
New Horizons Career Development Center
- 7** Lefty Gomez Recreation Center Energy-Efficient Public Buildings + Solar and Battery Storage + Resilience Hub
Lefty Gomez Recreation Center
- 8** Rodeo Sanitation District Solar and Battery Storage
Rodeo Sanitation District Wastewater Treatment Plan
- 9** Rodeo Hills Elementary School Solar and Battery Storage + Resilience Hub
Rodeo Hills Elementary School
- 10** Solar- Powered Chargers for Electric Vehicles and e-bikes + e-bike Library
Lefty Gomez Recreation Center
- 11** Real-Time Air Quality Monitoring Station
Rodeo, CA