

### Principles and Policies for Low and Moderate-Income Solar

Part 2: Case Studies

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October 6, 2017

#### **Learning Objectives**

- To be familiar with several examples of low- and moderate-income (LMI) solar programs.
- 2. To learn about different LMI solar programmatic structures—funding sources, stakeholders, program scales and other variables.



#### LMI Solar Program Case Studies

- California's Single-Family Affordable Solar Homes (SASH) Program
- The Fruit Belt
   Neighborhood Solar
   Partnership
- Alpine Bank's Community Solar Project Model



# California's Single Family Affordable Homes (SASH) Program

- Geographic Scale: Statewide (PG&E, SCE, and SDG&E service territories)
- Program Budget: \$54 million (combined with SASH 1.0, the total program budget is \$162.34 million)
- Solar Capacity: 15 MW
- Program Type: Direct Incentive Rebate to lowincome single-family home owners
- Program Manager: GRID Alternatives



#### **Program Basics**

- Provides rebates of \$3 per watt for California families with a household income of less than 80 percent AMI.
- Administered by the nonprofit solar company GRID Alternatives.
- Incorporates job training.
- Serves as a referral service for efficiency improvements.

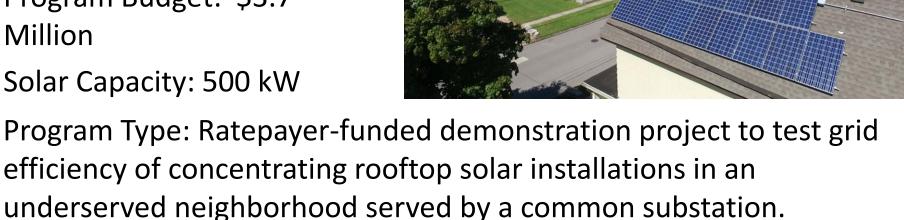


Approximately

 7,000 PV systems
 installed under
 the program to
 date.

### Fruit Belt Neighborhood Solar **Partnership**

- Geographic Scale: Neighborhood (~ 36 city blocks) in Buffalo, NY
- Program Budget: \$3.7 Million
- Solar Capacity: 500 kW



Program Manager: National Grid (utility) in partnership with the **Buffalo Niagara Medical Campus (nonprofit)** 

#### **Program Basics**

#### The neighborhood:

- Directly adjoins the Buffalo Niagara Medical Campus.
- Served by a common substation.
- Average household income is less than half of Buffalo's area median income.

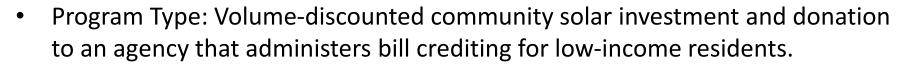


#### The program tests two hypotheses:

- 1. That providing solar offsets to LMI neighborhood residents will increase solar adoption, provide energy cost relief, and provide financial supports to the utility for accounts in arrears.
- 2. That concentrating distributed solar resources within a boundary served by a common substation will deliver measurable grid efficiency benefits.

### Alpine Bank's Community Solar Project

- Geographic Scale: A 25-kW block of community solar capacity in the Breckenridge Ullr Community Solar Array
- Program Budget: Part of an approximately \$900,000 investment in five different community solar arrays.
- Solar Capacity: 25 kW



 Program Manager: Alpine Bank in partnership with Clean Energy Collective and Family & Intercultural Resource Center (FIRC)



#### **Program Basics**

- Clean Energy Collective, a community solar developer, was statutorily required to allocate
   5 percent of each community solar garden's output to low-income customers.
- Alpine Bank, an employee-owned bank with a commitment to renewable energy, was already planning to buy community solar capacity from Clean Energy Collective for its own use.



- Alpine Bank agreed to additionally buy the 5 percent of the Breckenridge Ullr
  Community Solar Array that had to be allocated to low-income customers to help Clean
  Energy Collective meet its requirement and the bank received a volume discount for its
  purchase.
- Alpine Bank donated the additional panels to the Family & Intercultural Resource Center (FIRC), a nonprofit agency which offers low-income services, and FIRC in turn allocates the net metering credits to low-income households on a rotating basis.

#### **Contact Information**

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#### Thank you for attending our webinar

Questions? Contact:
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Visit CESA's Solar In Your Community Challenge webpage for more info and resources:

www.cesa.org/projects/sustainable-solar/solar-in-your-community-challenge-webinar-series

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#### **About This Webinar Series**

This webinar series is divided into two four-part webinars.

#### Principles and Policies for Low and Moderate Income Solar, Part 1

Friday, October 6, 2017

- 1. Opportunities and Challenges
- 2. Case Studies
- 3. Financing Options
- 4. Direct Incentives

### Principles and Policies for Low and Moderate-Income Solar, Part 2

Friday, November 17, 2017

- Presenting solar information to LMI consumers
- 2. Engaging LMI communities
- 3. Solar+storage for LMI communities
- 4. Community solar for LMI customers

Webinar recordings and registration forms are available on CESA's website at:

www.cesa.org/projects/sustainable-solar/solar-in-your-community-challenge-webinar-series



## Principles and Policies for Low and Moderate-Income Solar, Part 2

Friday, November 17, 12-2pm ET

Topics to be covered:

- Presenting solar information to LMI consumers
- Engaging LMI communities
- Solar+storage for LMI communities
- Community solar for LMI customers

Sign up at: <a href="http://bit.ly/CESA-Webinar-11-17">http://bit.ly/CESA-Webinar-11-17</a>

#### **Virtual Office Hours**

The instructors will be available for one-on-one consultations with Challenge participants after the webinars, through **virtual office hours**. To schedule a consultation, contact Diana Chace at <a href="mailto:diana@cleanegroup.org">diana@cleanegroup.org</a>