Rising Back Up
Achieving Savings and Resilience in Fire Recovery Areas

BayREN Regional Forum
March 18, 2021
How Community Choice Works

**generation**
SCP
buys cleaner energy sources, provides programs

**delivery**
PG&E
delivers energy, maintains the grid, provides bill

**customer**
YOU
cleaner energy, local control and competitive rates
Tubbs Fire

October 2017

36,000 Acres

5,800 Homes
Advanced Energy Rebuild

Build Better

Go Solar

Electrify

Plug In
### Advanced Energy Home

**$7,500**

**Flexible Performance Path**
- 20% above Title 24 energy code
- 220V outlet at stove/range, water heater, and clothes dryer
- Design rooftop for additional structural loads associated with solar panels, and add conduit for future installation
- Electric Vehicle Charging Station - Equipment free from Sonoma Clean Power

### All Electric Home

**$12,500**

**Flexible Performance Path**
- 20% above Title 24 energy code, all electric ends
- Design rooftop for additional structural loads associated with solar panels, and add conduit for future installation
- Electric Vehicle Charging Station - Equipment free from Sonoma Clean Power

### Simple Path

**$7,000**

**Simple Path**
- 2016 Title 24 High Performance Walls
- 2016 Title 24 High Performance Attics* (note: unemployment attic can qualify)
- 2019 Code windows (Max U-factor 0.30, SHGC 0.23)
- High efficiency water heater: Heat Pump Water Heater w/ EF of 3.0+ or gas tank w/ EF of 0.92 and 220V outlet
- Heating/cooling ducts that are well sealed, insulated (R-8), and located primarily in conditioned space (note: buried ducts as defined by Title 24 can qualify)
- WaterSense efficient plumbing fixtures
- Water efficient landscaping
- Energy Star Appliances
- 220V outlet at stove/Range and clothes dryer
- Electric Vehicle Charging Station - Equipment free from Sonoma Clean Power

*Must meet requirement of CEC Climate Zone 4 - see program handbook.

### Simple Plus Path

**$12,000**

**Simple Plus Path**
- 2016 Title 24 High Performance Walls
- 2016 Title 24 High Performance Attics* (note: unemployment attic can qualify)
- 2016 Title 24 High Performance Windows
- Blower Door Air Leakage Test (less than 3 ACH50)
- 2019 Title 24 Windows (Max U-factor 0.30, SHGC 0.23)
- 2016 Title 24 High Performance Water Heater w/ grid-integration controls installed
- High efficiency heat pump for heating/cooling (EER of 12.5+, HSPF of 9.5+)

*Must meet requirement of CEC Climate Zone 4 - see program handbook.

### Add solar plus battery to either option

- Solar panel system designed to offset annual electric usage with 7.5 kWh battery
- Pre-purchase of 20-year premium on 100% local renewable power (e.g., EverGreen)
- Add solar plus battery to either option
Impact of Electrification

Annual Emissions (MT CO2e)

- 2016 Title 24 Dual Fuel
- AER Home Dual Fuel
- 2016 Title 24 All-Electric
- AER Home All-Electric
- AER Home w/ Evergreen
Customer Facing

Sonoma Clean Power

Dual Fuel

All-Electric

Battery Bonus
$5,000 *

*$50% for ADUs and multi-family
Behind the Scenes

- Remaining tab: $X

- Varies depending on EDR

Dual Fuel

- SCP funds
- PG&E resource funds

All-Electric

- SCP funds
- BAAQMD funds
- PG&E resource funds

Battery Bonus
$5,000

- Remaining tab: $X
- HPWH: $1,000
- HP HVAC: $1,500
- Solar PV: $3,000

- Varies depending on EDR
Case Study
Participation Numbers

- 450 Homes Applied
- 30% All-Electric Homes
- 1300 kWh Battery Capacity
- 25% Over 2016 Title 24
### Advanced Energy Build

![Image of houses](image.png)

$2.2M \times 100$

#### Market Rate

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Rebate</th>
<th>Battery Bonus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Fuel</td>
<td>$1,000</td>
<td>$1,000</td>
</tr>
<tr>
<td>All-Electric</td>
<td>$3,500</td>
<td>$1,000</td>
</tr>
</tbody>
</table>

#### Affordable Homes

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Rebate</th>
<th>Battery Bonus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Family</td>
<td>$5,000</td>
<td>$5,000</td>
</tr>
<tr>
<td>Multifamily</td>
<td>$2,500</td>
<td>Up to $25,000</td>
</tr>
</tbody>
</table>
Best Practices

- Dress in Layers
- Use One Voice
- Partner Up
- Keep It Local
Lessons Learned

E for Effort

Directions Please

Electrify Everything! (except that)

Math is Hard
GridSavvy

- **Shape Sonoma Clean Power loads** (customer usage) to match supply (procured energy sources).
- Use as a resource to **displace gas powered plants**.
- Get customers excited about demand-response capable technologies, and pay them for their contribution to making a cleaner grid.
The Advanced Energy Center

The Advanced Energy Center has the potential to speed deployment of energy efficiency, make energy efficiency programs more accessible to all customers, and increase customer knowledge of energy efficiency and energy code requirements.
The Advanced Energy Center has the potential to speed deployment of energy efficiency, make energy efficiency programs more accessible to all customers, and increase customer knowledge of energy efficiency and energy code requirements.
Next Generation Education Area

Training & Certification Room

Emerging Tech Deployment Displays

Induction Cooktop Demonstration Area

Architectural Planning Room
Insulated Concrete Forms

- High R-value
- Fire resistance
- Sound-proofing
Thank you

SCOTT SALYER
PROGRAM MANAGER
SSALYER@SONOMACLEANPOWER.ORG