BAYREN

Local Governments Empowering Our Communities

ASSOCIATION FOR ENERGY AFFORDABILITY INC.

STOPWASTE

at home • at work • at school

TECH

CLEAN CALIFORNIA

BAMBE and TECH

Nick Dirr - Senior Director, Programs; AEA
Chris Hunter - Program Services Specialist, StopWaste
Ben Cooper - Program Manager, Stopwaste

The Bay Area Regional Energy Network (BayREN)

BayREN is a highly effective and trusted group of local governments that deliver targeted, integrated, and regional-scale climate solutions focused on energy, water, and resilience.

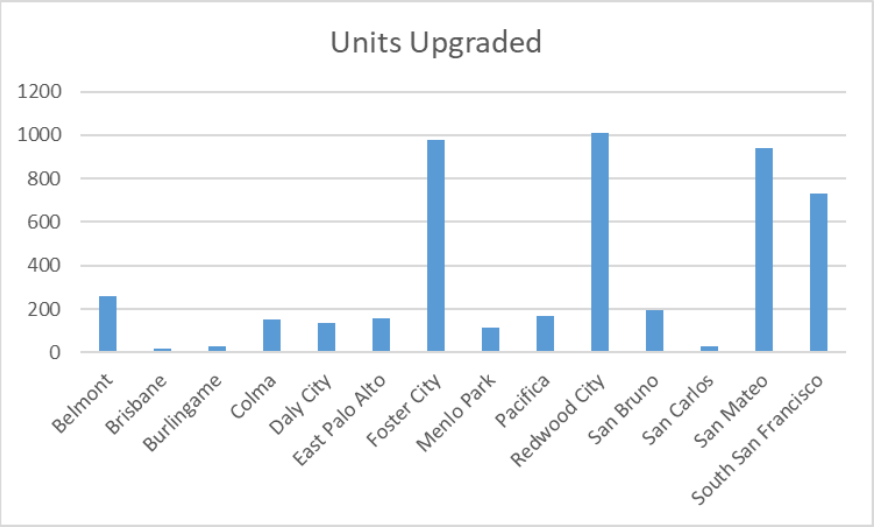
BAYREN

Bay Area Multifamily Building Enhancements (BAMBE) Program Overview

- **Eligibility:** Residential properties in the Bay Area with 5+ units
  - Priority given to affordable properties and underrepresented property types
- **No-Cost Consulting**
  - Energy & water usage analysis, site visits, scope development
  - One-stop-shop to connect with other programs
- **Cash Rebates**
  - $750 per unit calculated for whole building*
  - Additional incentives through the Clean Heating Pathway
  - Choose your own contractors
- **Learn more:** www.bayren.org/multifamily

BAMBE Projects to Date

- San Mateo County projects since 2013:
  - 68 projects, 4930 units - over 5% of all SMC MF units
  - $3,767,900 paid in incentives
  - Currently 882 units in pipeline
- Average energy savings per site
  - Standard BAMBE path: 15.1%
  - Clean Heating Pathway: 39.1%
- Regionally in 2021:
  - 60% projects under 100 units
  - 52% in low-income communities
  - 19% affordable properties
  - 26% Clean Heating Pathway



BAYREN

TECH Program Overview

What is TECH?

•CA's flagship heat pump market transformation program, designed to integrate and complement other existing offerings

•Our mission is to help put CA on a path to carbon-free homes by 2045 while striving for scale, equity, regulatory simplicity, and market transformation

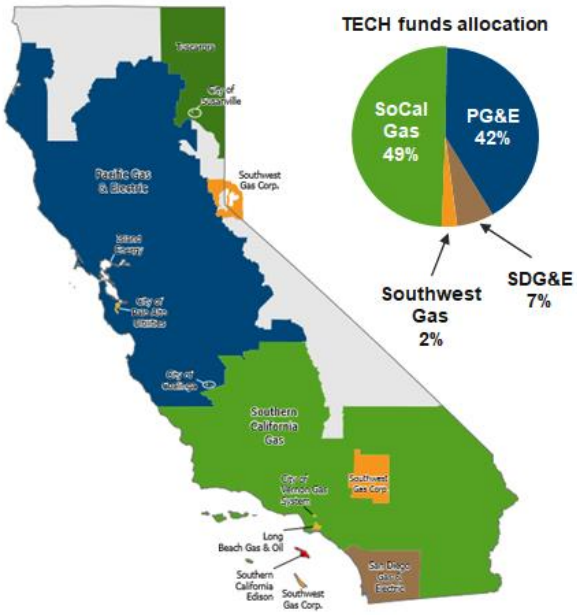
Program Details

•4-year, ~$116M budget ($72m in incentives)

•Eligible customers: SF and MF residences in gas IOU territory

•GHG and market transformation goals

•Existing buildings retrofits



Map source: https://cecgis-caenergy.opendata.arcgis.com/pages/pdf-maps

BAYREN

TECH MF Incentives

Apartment Measures

- In-unit HPWH
- In-unit HP HVAC
- Panel Upgrades

Central System (multi-apt) Measures

- Central HPWH
- Central HP HVAC

Common Area Measures

- Common Area HPWH
- Common Area HP HVAC
- Pool/Spa Heat Pump Water Heaters

Reserve	Retrofit	Receive
• Submit TECH MF Reservation Form • Signed by Owner AND Contractor • Approved Form locks in funding • Assistance from AEA where needed	• Complete measure installations • Document scope • Document meter info	• Contractor submits for incentive • Contractor receives check from Energy Solutions

BAYREN

TECH MF + BAMBE Example Incentive Opportunities

Water Heating and Space Heating Upgrade Incentives per Apartment Unit			
	BayREN Incentive[1,3]	TECH Incentive[3]	Total
Central Gas Water Heater to Central Electric Heat Pump Water Heating System	$1,550[2]	$1,200 – $1,800	$2,750-$3,350
In-Unit Gas Water Heater to In-unit Electric Heat Pump Water Heater	$1,750	$1,400-$2,100	$3,150-$3,850
In-Unit Gas Furnace to In-unit Electric Heat Pump HVAC System	$1,750	$1,000-$2,400	$2,750-$4,150

1. *BayREN's Multifamily program is a multi-measure program. Requires minimum 3 qualifying measures and minimum 0.25MTCO2/apartment unit reduction to qualify*
2. *For up to first 125 apartment units per property; $750 per apartment unit thereafter*
3. *Incentives also available for heat pump equipment serving communal space*

BAYREN

Additional TECH MF Opportunities

Pilots

•Portfolio Level Electrification Roadmap

•Central Heat Pump Water Heater Technical Support

•Property Electrification Readiness Plan

Training

- **Introductory courses**

  •Whole Building Science (building science, ventilation, systems, etc)

  •Multifamily Electrification 101

- **Intermediate**

  •MF retrofits

  •Individual HPWHs and CPWHs

  •Space Conditioning Design and Installation

- **Advanced**

  •Field trainings

Questions or to Learn More:

- https://energy-solution.com/tech-incentives/multifamily/
- TECHMF@aea.us.org

BAYREN

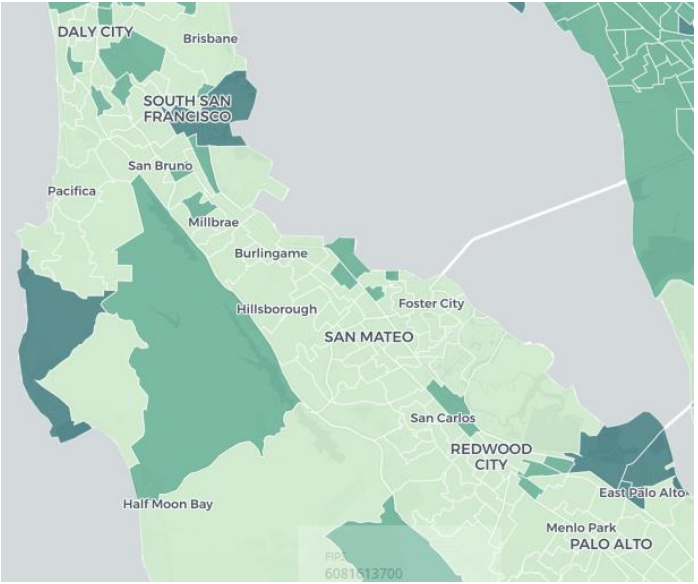
BAMBE Initiatives

- NOAH Pilots in San Mateo and Alameda Counties
- TA+
- BAMBE Direct Financing
- BAHHI
- Air District MF EV charging pilot

BAYREN

Naturally Occurring Affordable Housing (NOAH) Pilots

- NOAH = Residential rental properties (single or multifamily) that are affordable (below area median rent), but unsubsidized by any federal, state, or local programs
- Partnering with Alameda County Planning Department and San Mateo Office of Sustainability
- Separate listening sessions with owners/managers and renters
- Report that will inform BAMBE redesign



BAYREN

TA+

- Additional support with project management, resource procurement, contractor engagement, and education & training to support the participation of **properties that have building and ownership types that traditionally struggle with program participation**
- Starting Q2 of 2022

BAMBE Direct Financing

- Target projects - small properties and NOAH
- Focus on electrification measures
- Financing features
  - Loans from $5,000-$50,000
  - No fees
  - Personal guarantee replaces collateral req
  - Repayment term < measure life
  - Alternative underwriting

BAYREN

Bay Area Healthy Homes Initiative (BAHHI)

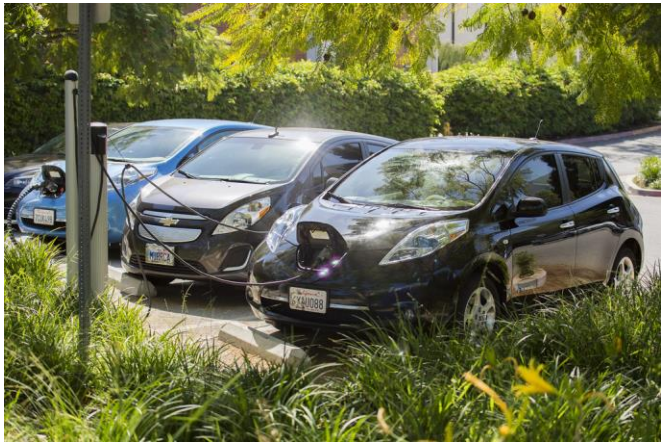
Partnership between BayREN and Alameda County Public Health Department to co-leverage resources from the BAMBE and Asthma Start programs with the goal of:

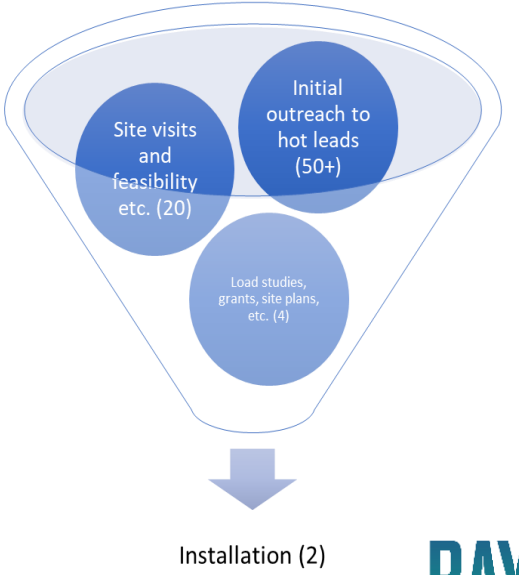
- Improving indoor air quality
- Reducing triggers that lead to emergency room visits and hospitalizations for vulnerable communities in Alameda County
- Increasing the comfort and efficiency of homes

BAYREN

MF EV Charging Pilot

- Outreach, education, and comprehensive TA to MF bldg owners/managers in AB617 West Oakland/Richmond/San Pablo





BAYREN

Questions? Thank you!

Nick Dirr, Senior Director, Program; AEA
ndirr@aea.us.org, 510-431-1792

Chris Hunter, Program Services Specialist, StopWaste
chunter@stopwaste.org, 510-891-6567

Ben Cooper, Program Manager, Stopwate
bcooper@stopwaste.org, 510-891-6511

BAYREN