

Resource Management and Climate Protection Committee

October 21, 2020



Bay Area Regional Energy Network (BayREN)

- Collaboration of the 9 Bay Area Counties
- Funded by ratepayer dollars, overseen by the California Public Utilities Commission
- Programs: Single Family, Green Labeling, Multifamily, Codes & Standards, Commercial, and Water Upgrades \$ave





Three areas of expertise:

- 1. Promoting Healthy and Energy Efficient Buildings
- Building Government Capacity
- 3. Reducing Carbon Emissions





- Local government-run
- Programs designed to make it easy for homes, multifamily buildings, and businesses to save money and energy by upgrading equipment, like lighting, HVAC, refrigeration, etc.



Regional and local collaboration

Potential grant opportunities





Local jurisdictions





Contractors









Non-profit organizations

...and more!





BayREN collaborates across the region to leverage resources and identify opportunities

- Supporting Partner for the Switch is On statewide electrification campaign led by the Building Decarbonization Coalition
- Informed the development of the new Bay Area Energy Atlas tool to support local climate action work across all Bay Area jurisdictions
- Partnered with BAAQMD and CCAs to offer incentives for Heat Pump Water Heaters
- Regular collaboration with ABAG/MTC on key Bay Area planning processes like Plan Bay Area

Examples of Roles filled by County Representatives

- The Door Opener
- The Opportunist
- The Brand Steward
- The Connector
- The Engager



Single Family Program Services



Online Home
Evaluation & Free
Energy Efficiency Kit

Energy Advising & Rebates

BayREN Home+

Green House Calls

Qualified Participating Contractors

Target audience: homeowners and renters



Home Electrification Rebates Available

- Heat Pump Space Heating \$1000
- Heat Pump Water Heater \$1000*
- Induction Electric Range or Cooktop \$300
- Heat Pump Clothes Dryer \$300

BayRENresidential.org

*Additional stackable PCE incentive by the end of 2020



Increase of Electrification Efforts









BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT





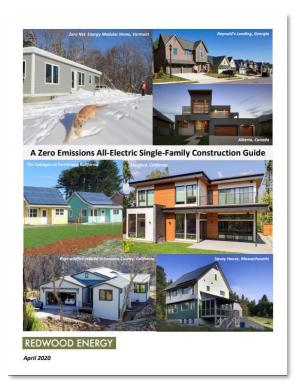










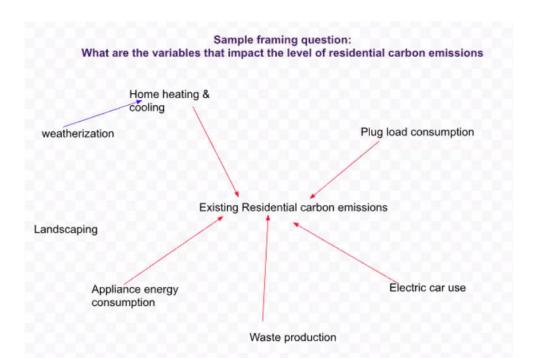


Funding to "Map" the System



2 Stakeholder workshops

- October 28
- Early December



2 Focus groups

- Contractors Nov. 17
- Homeowners Nov. 18



Funding for 10 Case Studies

- At least 5 home types/profiles
- Include real-world costs to electrify
- Highlight co-benefits/stories
- Systems mapping effort will inform the scope

*Criteria for case studies are in development





Metrics for 2020 – Single Family Program

- Over 300 home projects submitted
- 260 Green House Calls
- 7 workshops for San Mateo
 County residents & contractors
- 6 mailers; 5,500 reached





Green Labeling Program



Home Energy Score

Rebates

Green Labeling Program

Realtor trainings

Energy upgrade recommendations

Target audience: homeowners, realtors, and assessors



Metrics for 2020 – Green Labeling Program

- 46 rebates issued
- One two-day National
 Association of Realtors Green
 Designation training complete
- More outreach end of 2020





Multifamily Program Services



No-Cost Consulting

Energy & Water Savings

Multifamily
Building
Enhancements
Program

\$750 rebate/unit (energy efficiency)

Electrification Rebates

Target audience: multifamily property owners



Electrification Rebates Available

BAMBE Rebate	Rebate
Reduce >0.25 tonnes CO2	\$750 per apt in building
Electrification Adders	Rebate
In-unit Measures	*
In-unit Heat Pump Water Heater	\$1,000
In-unit Heat Pump HVAC	\$1,000
In-unit Laundry Dryer	\$250
In-unit Electric Cooking	\$350

Central System Measures		
Central Heat Pump Water Heater	\$800 per	
(2-18 apts served)	apt served	
Central Heat Pump Water Heater	\$15,000	
(19 or more apts served)		
Central Heat Pump HVAC	\$800 per	
	apt served	
Common Area Measures - these require an additional		
measure from the BAMBE "core" list		
Common Area Heat Pump HVAC	\$1000	
Laundry/Common Area HP Water Heater	\$1,000	
Pool Heat Pump Water Heater	\$1,500	



Metrics for 2020 – Multifamily Program

- 199 units complete, 670 in construction
- Workshop and mailer complete; planning additional outreach

BayREN.org/multifamily







Codes & Standards Services



Trainings

Forums

Codes & Standards Program

Reach Code Support Code Compliance Tools

Target audience: building department staff



Online Trainings for Building Departments

Energy Code Trainings

- Free live online trainings on Energy Code Compliance
 - 60-90 minutes in length
 - can be scheduled for staff meetings
 - ICC CEUs for building department staff
 - Topics include: Heat Pump Water Heaters, 2019 Energy Code Changes, Reach Codes, and more
- On-demand Heat Pump Water Heater training now available
- https://www.bayrencodes.org/services/trainings/





Municipal Assistance for Zero Net Energy/Zero Net Carbon Buildings

- Building specific assistance or portfolio review
- Retrofits or new construction
- Coordination with SMC Energy Watch, PCE









Quarterly Forums



Open Reach Code & Policy Working Group



Calls every two months

- Open to all local government staff
- To learn what others are doing
- To ask for help or advice
- To receive updates on statewide initiatives
- To explore potential policies



Metrics for 2020 – Codes & Standards Program

- About 10 trainings hosted
- One regional forum hosted;130 attendees
- Ongoing coordination on resources for municipalities, contractors, and building staff





Commercial



Technical assistance

Performancebased incentives

BayREN Business

Microloans

Coordination with SMC Energy Watch

Target audience: Small businesses



Target Customers

Small & medium businesses <50,000 sq. ft in Bay Area

- Retail
- Offices
- Personal and business services
- Restaurants
- Automotive services stations and dealerships









Eligible Measures





How it Works



A free, no-obligation energy assessment



Recommendations to improve energy efficiency



Turnkey installation



No-cost maintenance



Microloan



- 0% interest microloans (<\$2,500)
- Increase accessibility of funds and energy savings programs for hard-to-reach and small and micro businesses in the Bay Area
- Partnership with Mission Asset Fund (nonprofit)





Partnership Marketing

- Coordinating with other OOS and PCE programs serving small businesses
- SOON: Reaching out to cities, local chambers to align efforts
- SOON: Distributing flyers via Environmental Health info visits



CLIMATE CHANGE ENERGY & WATER

LIVABLE COMMUNITIES

WASTE REDUCTION

ABOUT f 🐯 💆 🚠 TRANSLATE Q



ON THIS PAGE

BAYREN BUSINESS

GREEN BUSINESS PROGRAM

PENINSULA CLEAN ENERGY EV

SMC ENERGY

SMC WASTE DISPOSABLE FOOD WARE ORDINANCE

FUNDING & FINANCE

SMALL BUSINESS RESOURCE CENTER

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CALL ALEXANDRIA GALLIZIOLI TO LEARN MORE AT (XXX) XXX-XXXX

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PENINSULA CLEAN ENERGY EV

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Financing for Water Savings



On-bill financing for residential projects

Empower water savings without rebates

Water Upgrades \$ave

Administered via water utility billing

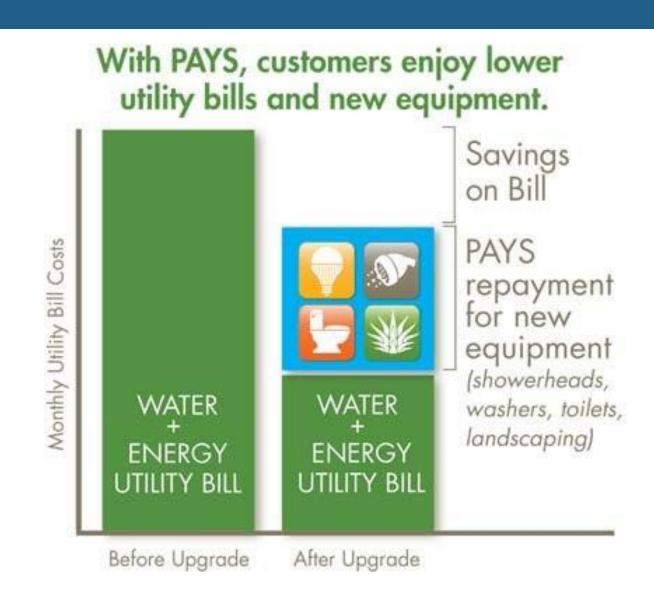
Now available regionally

Target audience: Residents



"Pay-As-You-Save" Loan Model

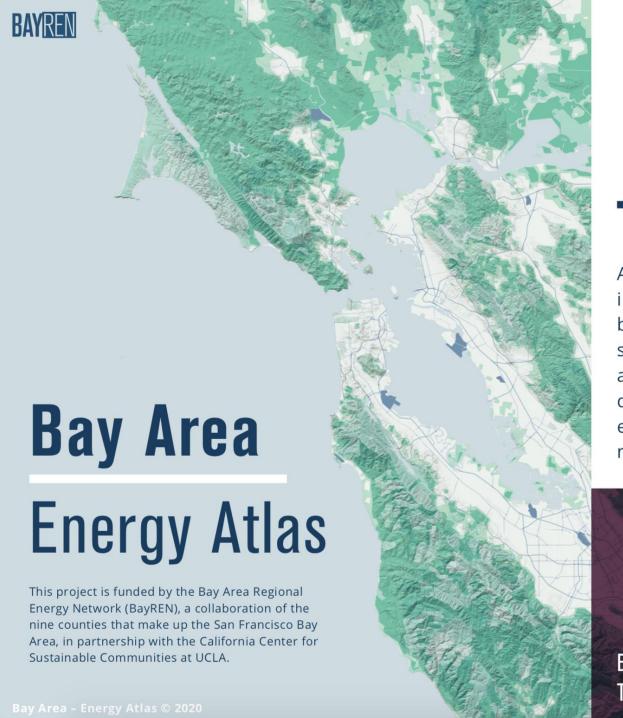
- No up-front payments, credit checks, debt obligations, or liens
- On-bill charge is lower than estimated savings
- Guarantee: failed measures are repaired or payment obligation terminated



Next Steps

- Program design refined based on 3 pilots
- Final contracting with program implementer - EEtility
- Enrolling water agencies now
 - Sebastopol contracting
 - EBMUD interested
 - Santa Rosa interested
- Program launch early 2021





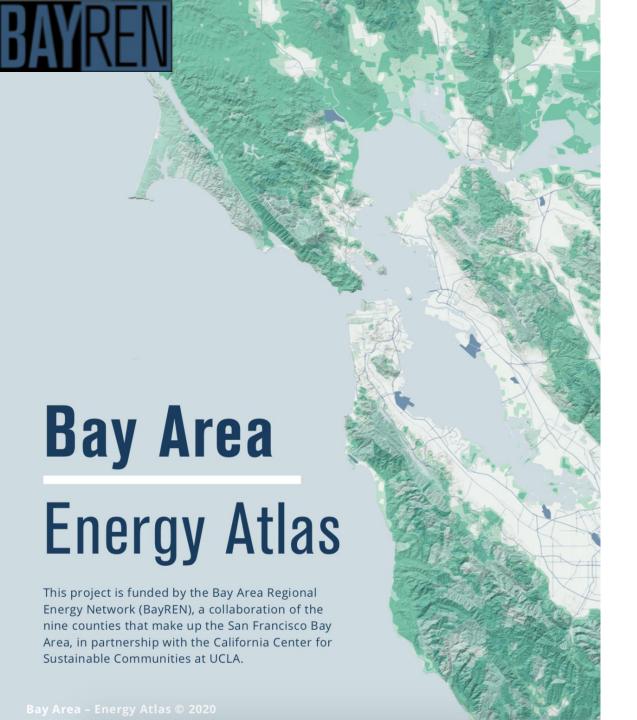


A first of its kind interactive website build with the largest set of publicly available disaggregated energy data in the nation.



Building Type

Building Size



Annual energy consumption totals, per capita, median per SQFT by use types:

- Single family residential
- Multi-family residential
- Commercial
- Industrial
- Institutional
- Other

Units:

- Electricity
- Natural Gas
- Combined BTU

Years: 2013-2017

Aggregated following CPUC rules for customer privacy (15/15)

Questions?



Thank you!

Denise Lin
Sustainability Coordinator
dlin@smcgov.org

Susan Wright
Sustainability Specialist
swright@smcgov.org



