



Local Governments Empowering Our Communities

BayREN Program Overview

2024 – 2027

Ryan Melendez | 2/23/24

Overview

The Bay Area Regional Energy Network (BayREN) is a **coalition** of the Bay Area's **nine counties** — a network of local governments and the Association of Bay Area Governments (ABAG) partnering to **promote energy, water and greenhouse gas reduction** for residents, small businesses and local governments.



PROGRAM OFFERINGS



Residential

- Single Family Home+
- Bay Area Multifamily Building Enhancements Program (BAMBE)
- Green Labeling



Commercial

- BayREN Business
- BayREN Refrigerant Replacement Program (BRRR)



Public Sector

- Integrated Energy Services (IES)
- Targeted Decarbonization Services (TDS)



Cross Cutting

- Codes & Standards
- Climate Careers
- Water Upgrades Save

Residential: Single Family Home+ Program

- Eligibility: Be a PG&E customer and own 1-4 unit home built before 2016
- Program offerings:
 - Rebate \$ for energy efficiency upgrades
 - Includes weatherization & building shell, heating and cooling systems, water heaters, and certain consumer appliances
 - Added electrification incentives in 2020
 - No-cost Home Energy Advisor service
(866) 878-6008
advisor@bayren.org
 - Network of trained participating contractors



For more info, please visit <https://www.bayren.org/home-rebates>

Home+ Rebates

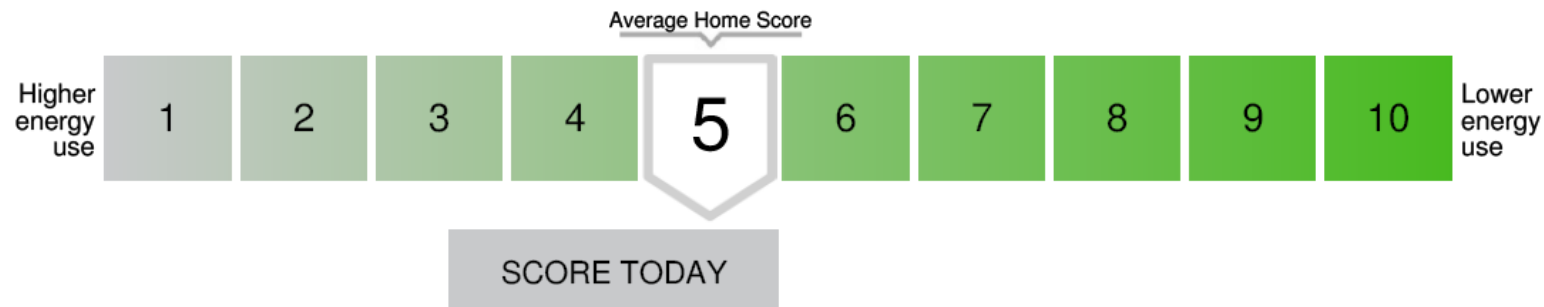
Home+ Measure	Rebate
Heat Pump Water Heater	\$400
Induction Cooktop	\$250
Wall Insulation	\$1,000
Attic Insulation	\$1,000
Air Sealing	\$150
Duct Sealing/Replacement	\$500
Heat Pump HVAC	\$400
Heat Pump Clothes Dryer	\$250
Energy Efficient Air Conditioning	\$200

*Note: BayREN Single Family program is undergoing a redesign process to better serve underserved communities. Look forward to a revamped Single Family program launching in Q3 2024.



Residential: Green Labeling

- Program offerings:
 - Home Energy Score - Developed by U.S. Department of Energy to create standardized label for understanding a home's efficiency and compare it to similar homes
 - Home Energy Score Report estimates home energy use, associated costs, and provides recommendations to improve the home's efficiency
 - BayREN offers \$200 rebate for HES assessments and streamlines with Home+ program
 - Green Real Estate Trainings – free training opportunities for realtors to learn about the benefits to sustainable homes and green buildings.



U.S. DEPARTMENT OF ENERGY
Home Energy Score



Know your home. Know your Score.

HOME PROFILE

LOCATION:
2227 Mcgee Ave
Berkeley, CA 94703

YEAR BUILT:
1921

HEATED FLOOR AREA:
2,863 sq.ft.

NUMBER OF BEDROOMS:
6

ASSESSMENT

ASSESSMENT DATE:
07/28/2023

ASSESSOR:
Matthew Shedd
Blue Rock Home, Inc.

PHONE:
(925) 335-6770

EMAIL:
matt@
bluerockhome.com



Local Governments Empowering Our Communities

Flip over to learn how to
improve this score and
use less energy.

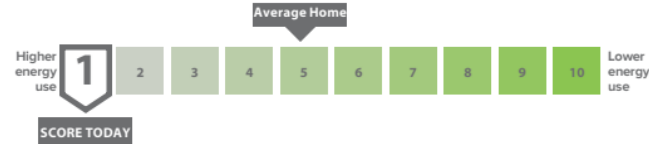
THIS HOME'S
HOME ENERGY SCORE

1 out of 10

THIS HOME'S ESTIMATED
ENERGY COSTS

\$2,013 per year

Home Energy Score details



Official Assessment | ID# 436196

The Home Energy Score is a national rating System developed by the U.S. Department of Energy. The Score reflects the estimated energy use of a home based upon the home's structure and heating, cooling, and hot water systems. The average score is a 5. Learn more at [HomeEnergyScore.gov](https://www.HomeEnergyScore.gov).

How much energy is this home likely to use?

Electric:	9,425 kWh/yr	\$1,084
Natural Gas:	852 therms/yr	\$929
Other:		\$0
Solar PV:		(\$0)

Total energy costs per year \$2,013

This home's carbon footprint



- Actual energy use and costs may vary based on occupant behavior and other factors.
- Estimated energy costs were calculated based on average utility prices for the nine Bay Area Counties (\$0.12/kwh for electricity; \$1.09/therm for natural gas; \$2.21/gal for propane; \$2.58/gal for fuel oil).
- Carbon footprint is based only on estimated home energy use. Carbon emissions are estimated based on utility and fuel-specific emissions factors provided by the California Public Utilities Commission.
- Your carbon footprint may be lower if you get your electricity through a Community Choice Energy (CCE) provider. For more information visit Cal-CCA.org.

Tackle energy waste today!

Enjoy the rewards of a comfortable, energy efficient home that saves you money.

- ☒ Get your home energy assessment. Done!
- ☐ Choose energy improvements from the list of recommendations below.

Need help deciding what to do first? The BayREN Home Upgrade Advisors offer free phone consults with independent expert home advisors. Call 866-878-6008.

- ☐ Check out bayren.org/rebates-financing/single-family-homeowners for information on BayREN energy efficiency programs and financing opportunities.
- ☐ Select a contractor (or two, for comparison) and obtain bids.
- ☐ Perform upgrades and enjoy a more comfortable and energy efficient home.

SCORE TODAY

1

out of 10

Energy Improvements, customized for your home.

FEATURE	TODAY'S CONDITION	RECOMMENDED IMPROVEMENTS
Attic Insulation	Ceiling insulated to R-03	Insulate to R-44 or higher and air seal
Wall Insulation	Insulated to R-00	Insulate to R-13 or higher
Envelope/Air Sealing	Not professionally airsealed	At least 30% leakage reduction from vintage table defaults
Ducts (Duct Repair)	Insulated & Un-sealed	No recommendation
Floor Insulation	Insulated to R-00	Insulate to R-19 or higher
Heating Equipment	Natural gas furnace,82% AFUE	Electric Heat Pump 9.4 HSPF/17 SEER or higher
Water Heater	Standard natural gas tank	Heat Pump Water Heater 3.24 UEF or higher
Windows	Single-pane	Double-pane or other high-efficiency windows
Cooling System	N/A	No recommendation
Appliances: Induction Cooking	Gas Range/Cooktop	Induction electric range/cooktop replacing a natural gas range/cooktop
Appliances: Heat Pump Dryer	Gas Dryer	Heat pump clothes dryer 4.5 Combined Energy Factor (CEF) replacing a natural gas clothes dryer

ADDITIONAL COMMENTS AND RECOMMENDATIONS:

Draft Training Schedule



Date	Class	County	Format
5-Mar	NAR Green Designation	Alameda	Live
6-Mar	BayREN Reps & Realtors Meet & Greet	Alameda & Contra Costa	Live
7-Mar	The Power to Generate Listings	All	Virtual
26-Mar	NAR Green Designation	San Francisco	Live
28-Mar	Green Home Tour	Alameda & Contra Costa	Live
5-Apr	Green Home Tour	San Francisco & San Mateo	Live
17-Apr	NAR Green Designation	Sonoma & Marin	Live
29-Apr	Green Home Tour	Sonoma & Marin	Live
5-Jun	BayREN Reps & Realtors Meet & Greet	Sonoma & Marin	Live
25-Jun	Accredited Green Appraiser	All	Virtual
27-Jun	Green Lending Hot Topics	All	Live
9-Jul	NAR Green Designation - NAREB	Solano & Napa	Live
18-Jul	Green Home Tour - Fairfield	Solano & Napa	Live
19-Jul	The Power to Generate Listings	All	Virtual
24-Jul	Buzz About ADUs	All	Virtual
6-Aug	NAR Green Designation	San Mateo & Santa Clara	Live
14-Aug	Electrification/Induction Demo	Contra Costa & Alameda	Live
15-Aug	Green Home Tour	San Mateo & Santa Clara	Live
29-Aug	Mentoring Session 1	Solano & Napa	Live
9-Sep	Mentoring Session 2	Santa Clara & San Mateo	Live
10-Sep	NAR Green Designation - Broker	Santa Clara & San Mateo	Live
23-Sep	Inflation Reduction Act: Part 1	All	Virtual
25-Sep	BayREN Reps & Realtors Meet & Greet	Santa Clara & San Mateo	Live
30-Sep	Inflation Reduction Act: Part 2	All	Virtual
2-Oct	Electrification/Induction Demo	Napa & Solano	Live
8-Oct	Inflation Reduction Act: Part 3	All	Virtual
22-Oct	Inflation Reduction Act: Part 4	All	Virtual
13-Nov	BayREN Reps & Realtors Meet & Greet	Napa & Solano	Live

Residential: Bay Area Multifamily Building Enhancements (BAMBE) program

- Eligibility:
 - Existing residential properties **located in the 9-county Bay Area** and served by PG&E
 - **5 or more dwelling units** (renter- and owner-occupied both eligible)
- Requirements:
 - Must install 2 or more unique measures that achieve combined modeled energy savings of at least 10%
- Program offerings:
 1. No-cost, no-obligation Technical Assistance provided in partnership w/ the Associate for Energy Affordability (AEA)
 - Energy usage analysis, site visits, and project scope development
 - One-stop-shop to connect w/ contractors, financing options, & other programs
 2. Cash Rebates
 - Base rebate = \$500/unit
 - Rebate adders for properties pursuing electrification & those located in high-priority communities
 - May receive 25% of rebate up-front through BayREN; financing options available to fill funding gaps



Examples of eligible measures

Eligible	Non-eligible
<ul style="list-style-type: none">■ Building envelope■ HVAC equipment■ Domestic Hot Water equipment■ In-unit appliances■ Low-flow water fixtures■ LED Lighting■ Pool heaters and pumps■ Thermostats, recirculation pumps and other operational equipment	<ul style="list-style-type: none">■ Solar PV■ EV Charging■ Battery storage■ Non-energy related remodels■ Landscaping■ Green building materials

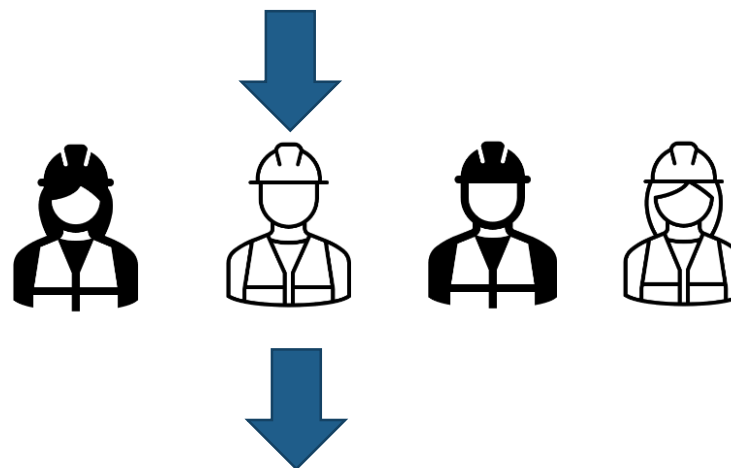


Commercial

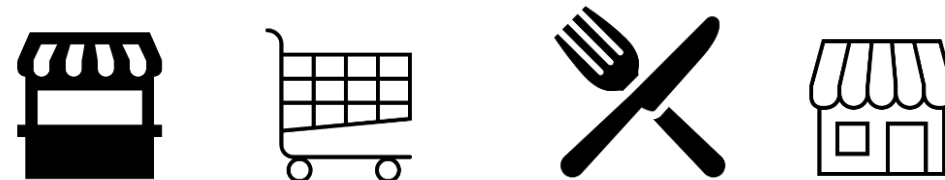


BayREN Business Program

Aggregators/Contractors



Hard to Reach (HTR)
Small Businesses



Commercial: BayREN Business Program

■ Eligibility:

- Serving **Only** Hard-to-Reach (HTR)
- Small & micro businesses
- Maximum energy thresholds:
 $\leq 150,000$ kWh & $\leq 50,000$ therms
- Examples of businesses: Offices, corner/grocery store, small/medium retail, restaurants, auto repair, gym
 - Receive service from PG&E or CCA
 - 12 months of meter (gas & electric) data
 - Limited building uses, types
- Aggregators paid based on *actual* energy savings

• Program Offerings: Measure Agnostic

- Any measure is allowed as long as it shows savings at the meter
- Aggregators do lighting, limited refrigeration and limited HVAC measures
- No aggregators installing water heaters yet



All projects must be Hard to Reach (HTR) (3 pts required)

Criteria	Description	Point Value
Location	Located in a Disadvantaged Community*	2
Language	Primary language @ business is other than English	1
Business Size	≤ 25 employees <i>or</i> annual energy use: <20-kW or <10,000 therms	1
Rented, Leased?	Leased or Rented Facility	1

*Top 25 percentile are Disadvantaged Communities:

<https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40>



Commercial

NEW!

BayREN Refrigerant Replacement Program (BRRR)

This new program is still being developed, it aims to replace environmentally harmful refrigerants with eco-friendlier options at low-to-no cost to food service and convenience store businesses.



Two New Public Programs

Targeted Decarbonization Services

- Decarbonization Showcase
- Decarbonization Education and Financing

Integrated Energy Services

- Energy Concierge
- Energy Roadmapping

Public Sector: Integrated Energy Services Program

Energy Concierge

- Objective single point of contact to help local government staff with identifying the best technical assistance, financing, and incentive options for public facilities projects
- To provide assistance with applications and accessing programs

Energy Roadmapping Service

- Technical and engineering assistance to develop roadmaps for improving public facilities to meet energy goals
- Energy assessments for designated and potential Community Resilience Centers, and technical assistance for energy improvements



Public Sector: Targeted Decarbonization Services Program

Decarbonization Showcase

- Technical and financial support for selected public facilities projects
- Projects must pilot and demonstrate approaches to building decarbonization
- Collect and share real-world data

Decarbonization Education & Financing

- Familiarize local government staff with decarbonization equipment and financing strategies
- Explore financing alternatives, including:
 - leveraging alternative funding sources
 - testing incentives



BayREN Codes & Standards Program

Building Dept. Staff - Energy Code Compliance

- Training for local building department staff
- Permit guides
- Online ePermit Tool
- CodeCycle Tool

Local Government Staff Support: Energy Policy/Reach Code Support

- Quarterly Regional Forums
- Reach Code & Policy Working Group Calls in even-numbered months

www.bayrencodes.org

All services and resources are free!



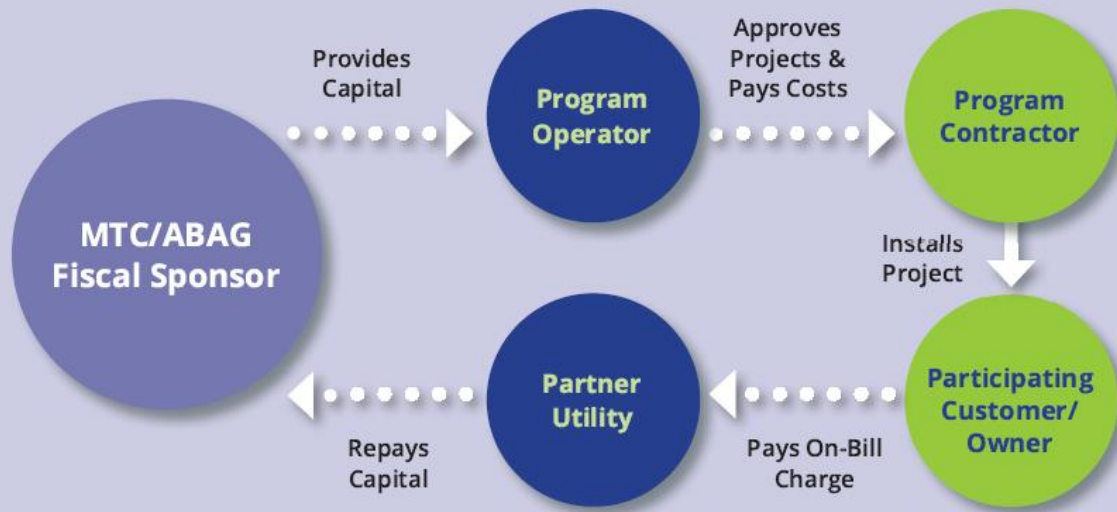


Cross-Cutting

Water Upgrades \$ave Program

- California's 1st On-bill tariff program
- Utilities sign up to participate, and then customers can take advantage
- Supports Water conservation by:
 - BayREN provides project capital
 - Managing customer enrollment, project installation, and project close out
 - Securing customer agreements
 - Qualifying contractors
 - Onboarding, scheduling, & paying contractors
 - Overseeing project QA/QC
 - Answering customer/contractor questions including dispute resolution
 - Assisting w/ billing system set-up and project repayment tracking

Program Model





Water Upgrades Save

- **Benefits to utility customers:**
 - No up-front payment, debt, or liens
 - Monthly on-bill charge is significantly lower than estimated savings
 - On-bill charge is tied to the meter, not the customer
 - Failed improvements are repaired or the charge is terminated



Cross-Cutting

NEW!

Workforce, Education & Training - Climate Careers

- The Opportunity Build program teaches skills to prepare individuals for careers in union construction trades.
- The Climate Careers program addresses climate change by employing youth to provide energy efficiency services to Northern CA households. Youth are trained to conduct Green House Calls in their own communities.
- The Green House Call provides a “home energy kit” equipped with energy and water savings equipment and information about other energy-saving programs for homeowners and renters.





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