

Home Electrification Webinar



Agenda

- Home Performance Improvements
 Andy Lentz, BayREN
- 2. Reducing Your Carbon Footprint
 Andy Lentz, BayREN
- 3. Rebates, Financing Options and Complementary Programs
 Tonya Veitch, County of Santa Clara





Home Performance Improvements

Andy Lentz
BayREN Home+



How Well Do You Know Your Home?

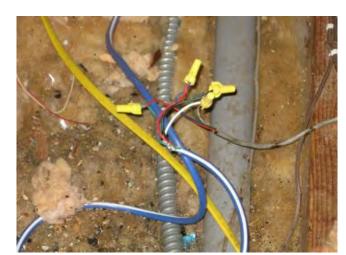
Improper Insulation

Pest Infestation

Fire Hazards









Exposed Wiring

Leaky Ducts



The Whole-House Approach

PROBLEMS

Moisture in Attic or Crawl Space

Drafty Rooms

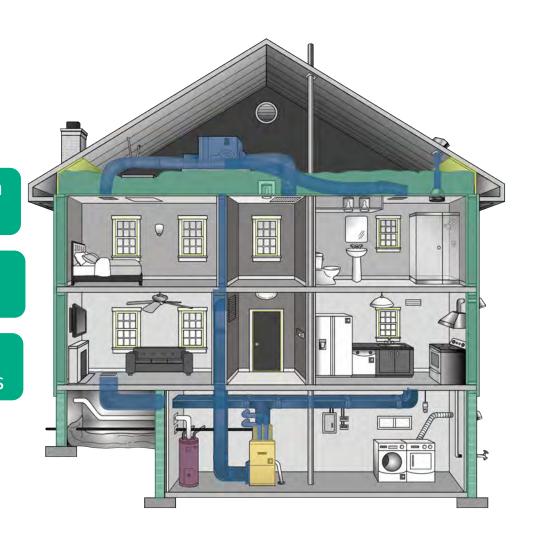
Hot/Cold Rooms

Excessive Dust

Condensation on Windows

Mold & Mildew

Unsafe Carbon Monoxide Levels



SOLUTIONS

Air sealing

Insulation

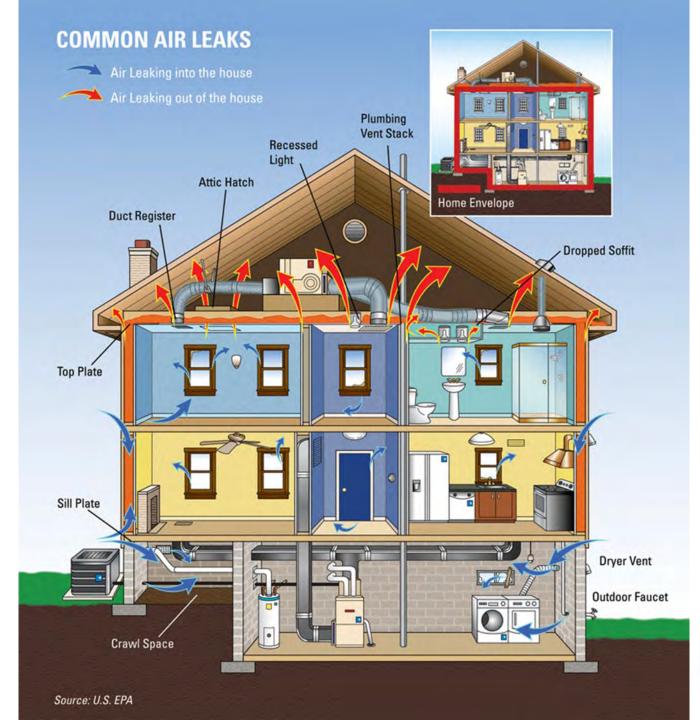
Duct sealing

High-efficiency heating and cooling

High-efficiency water heater



Air Leakage





Air Sealing & Insulation

First Sealing





Then Insulation





Air sealing: the "secret sauce"



- A drafty home typically isn't air sealed
- Most homes have the equivalent of an open window in small air leaks
- If you don't seal drafts first, air will flow through the insulation
- A leaky home means poor indoor air quality



Insulation: the "comfort creator"



- Insulation is like a sweater or fleece jacket for your home.
- Insulation is a thermal barrier
- Not all insulation is effectively installed
- Insulation leads to a more comfortable and durable home
- Insulation reduces capacity and size of new mechanical equipment



Ducts











Duct Sealing / Replacement

- Leaky ducts are like a leaky garden hose
- Leaky ducts require cleaning & air bypasses your filter
- Avoid wear and tear on your furnace or air conditioner
- Get comfortable. Conditioned air where you want it, and when you want it



Reducing Your Carbon Footprint



Photo credit: A. O. Smith

Conventional Water Heaters and Furnaces



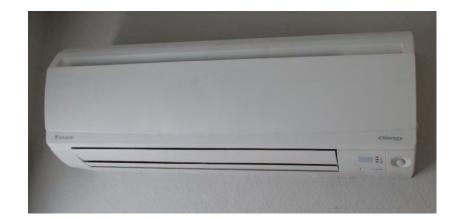




Electrification



Photo credit: A. O. Smith









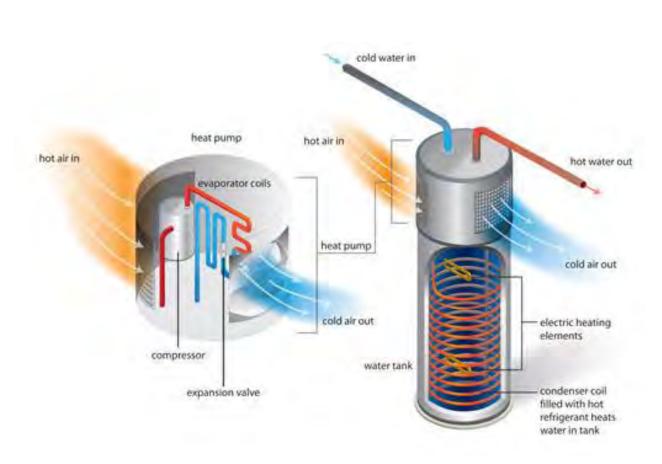
Heating and Cooling Flexibility





Source: EnergySTAR

Heat Pump Water Heaters – 3-4x More Efficient!









BayREN Home+

Tonya Veitch County of Santa Clara





Who We Are

- Bay Area Regional Energy Network
- Collaboration of the 9 Bay Area Counties
- Funded by ratepayer dollars, overseen by the CPUC
- Energy efficiency programs including Single Family, Multifamily, Financing, Codes & Standards & Small Business

BayREN.org





Online Home
Evaluation & Free
Energy Efficiency Kit

Energy Advising

BayREN Home+

Cash Rebates

Qualified
Participating
Contractors

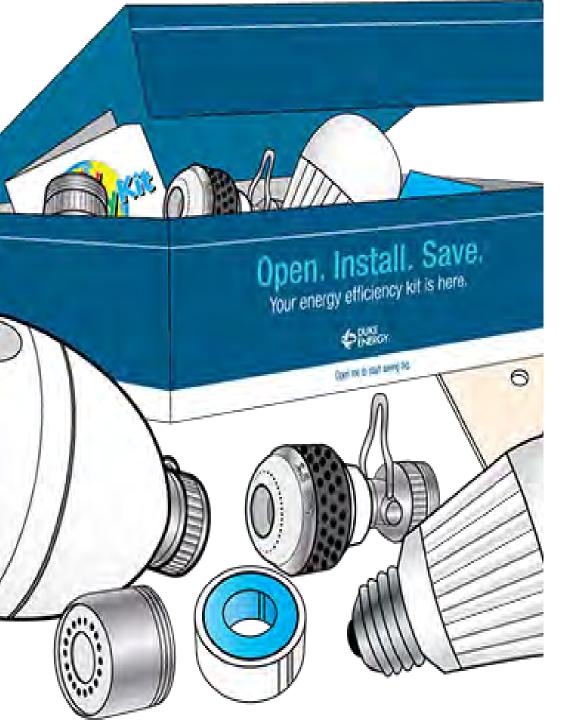




Program Eligibility

- Single Family home in the Bay
 Area built in 2016 or earlier
 - Can include townhomes, condos
- Must be a PG&E, SVCE or SJCE rate payer
- Use a participating contractor or rater





Online Home Evaluation & Free Energy Efficiency (EE) Kit

- Take a short online home evaluation (10 minutes)
- Receive custom recommendations
- Share your energy data
- Select your free EE kit package for at-home delivery





Energy Advising

- Unbiased expert, well versed in energy efficiency
- Analysis and explanation of energy usage data
- Development of Energy Efficiency Action Plans
- Estimate or bid reviews
- Ongoing support and guidance
- One-stop shop





Participating Contractors



Specially trained in building performance



Vetted through program requirements



Those not meeting program guidelines and best practices are removed



Handle all the paperwork



Quality control checks



Safety testing required



Rebates



"A la carte" rebates

- Step 1: Visit BayRENresidential.org or speak to a Home Energy Advisor
 - Register for an EE Kit
 - View Measures List
- Step 2: Select measures for installation
- Step 3: Work with a Participating Contractor and install measure(s)
- Step 4: Participating Contractor submits necessary information and rebate is sent to designated payee



Sample Projects

Measure	2021 Rebate (1500 sq ft home)
Attic Insulation >= R44	\$1,000
Duct Replacement <=5%	\$800
High Efficiency Heat Pump >= 17 SEER / 9.4 HSPF	\$1,000
Combine one or more Building Shell measures with a Heating or Cooling measure	\$500
CAS Test-Out Incentive	\$150
Total Rebate	\$3,450

Measure	2021 Rebate (1500 sq ft home)
Heat Pump Water Heater >=	\$1,000
3.1 UEF (Electrification) *	
CAS Test-Out Incentive	\$150
Total Rebate	\$1,150



Appliance Electrification Measures

Measure	2020 Rebate Amount	
Appliance Electrification Measures		
Induction electric range (no hybrid) or cooktop (no replace existing natural gas range or cooktop)	nust	\$300
Heat pump clothes dryer >= 4.50 Combined Energy Factor (CEF) (must replace existing natural gas clothes dryer and listed as ENERGY STAR Efficient heat pump clothes dryer.		\$300
Note: In order to receive appliance electrification incentives, these measures require the PG&E accompliance to submit a rebate application through the customer facing BayREN Home+ Portal and provide photographs of installed equipment and proof of existing natural gas equipment	d <mark>e</mark>	



Financing options

Which is the best fit for you?



Understanding your Financing Options

APPROVED



Acceptable for short term.

Quick and easy to qualify.



REEL

Low fixed rates.
Longer loan terms.
No home equity needed.
No fees.



Longer loan terms
One annual payment.
Payment transfers at sale.
Can finance solar.



MORTGAGE PRODUCTS

Home Equity Line of Credit, Energy Efficient Mortgages, and Rehab Loans.



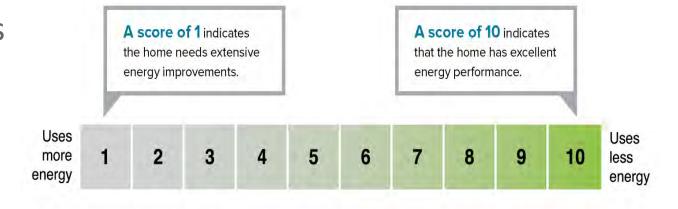
Complementary Programs

More information to help you make decisions!



Home Energy Score

- Department of Energy (DOE) Program
- Compare your home to others on a 1-10 scale
- Receive customized recommendations from a certified Home Energy Score Assesor
- Receive up to \$200 rebate towards your assessment
- Visit BayREN.org/HES to find a qualified Assessor





Green House Calls

Step 1: Fill out an assessment survey online or over the phone.

Step 2: Receive your free kit and install the items

Step 3: Get personalized tips to programs and devices that can help you save even more!

Sign up today and get priority to our program in 2021!

https://bit.ly/2Zu81Di

Any further questions?

Please reach out to us at eekits@risingsunopp.org
or 510-665-1501



Where do I start?



Call an Advisor 866-878-6008



Find a Contractor or Assessor



Visit the websites:

BayRENresidential.org

BayREN.org/HES

