**BENEFITS OF AN ALL-ELECTRIC LIFESTYLE**

An all-electric home with an electric car costs about half as much to operate and uses about one-third of the energy of a typical California home with gas-fired appliances and a gasoline car. An all-electric home also reduces indoor air pollution, is healthier for you, and when paired with rooftop solar panels or the 100% clean electricity option from your Community Choice Aggregation (CCA) provider, emits zero greenhouse gas emissions.

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**Rooftop Solar Panels** provide renewable electricity. If you can’t add solar to your home or if your solar energy system can’t handle all your usage, “opt up” to 100% clean electricity from your local CCA electricity provider (examples include Silicon Valley Clean Energy’s GreenPrime, Peninsula Clean Energy’s ECO100, CleanPowerSF’s SuperGreen, and San Jose Clean Energy’s TotalGreen).

**Battery Storage System** captures electricity from solar panels during the daytime and allows you to use it when electricity rates are higher during the night time.

**Heat Pump HVAC** is an electric all-in-one heating and air conditioning system. The most common systems for homes are ducted or ductless mini-split systems. During the summer, a heat pump HVAC pulls heat from inside your home and moves it outside to provide air conditioning. During the winter, a heat pump HVAC pulls heat from outside and moves it into your home for heating.

**High-Efficiency Washer & Electric Dryer** removes more water from clothes, which means less time and energy spent on drying clothes. Many electric dryers are on the market and can be installed as easily as their gas alternatives. Less water consumed reduces the energy needed to treat, transport, and heat it. Now available: Condensing Dryer and Heat Pump Condensing Dryer; some models are ventless. Also, Combination Washer and Condensing Dryer saves space and doesn’t require venting.

**LED Lighting** uses 75% less energy than incandescent lighting, lasts 25 times longer, and doesn’t contain mercury.

**Induction Cooktops** are a more energy-efficient alternative to conventional gas and radiant electric cooktops. Compared to gas, these cooktops heat twice as fast, provide more temperature control, and significantly reduce air pollution and fire hazards inside your home.

**Heat Pump Water Heaters** are two to three times more efficient than gas water heaters. They use electricity to move heat from the surrounding air into the tank to heat water.

**Electric Vehicles** can be charged with a rooftop solar system and battery storage system or paired with a 100% clean energy option from a CCA. Replacing a gas-powered vehicle with an electric vehicle reduces outdoor air pollution that we breathe. Electric vehicles have very low maintenance costs and are about half as expensive to fuel than gas powered vehicles.

**Electric Panel Upgrade** may be needed when you install solar, switch to an electric heat pump system, or add an electric vehicle charger. Talk to an electrician about including enough capacity in the panel to make the switch from gas to electric in the future.

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Images provided by the City of Palo Alto Utilities
RESOURCES

No- or Low-cost Programs
Contact a no-cost Home Energy Advisor through Bay Area Regional Energy Networks1 (BayREN): Call (866) 878-6008 or email advisor@bayren.org.

“Opt up” to choose a 100% renewable electricity option with your local Community Choice Aggregator (CCA): cal-cca.org

Test a portable induction cooktop and cookware for free, courtesy of City of Palo Alto (3-week loan): acterra.org/induction

For San Jose residents, City of San Jose sponsors a 2-week loan program: sjenvironment.org/inductioncooking

Energy Efficient Electric Equipment
Look for the ENERGY STAR® label when buying heat pump systems, induction cooktops, and other appliances. ENERGY STAR® products are independently certified to save energy without sacrificing features or functionality: energystar.gov

PG&E offers energy-efficiency rebates, including a $100 rebate on smart thermostats if you are on, or join, an energy incentive program: pge.com

Renewable Energy
Deduct up to 30% of the cost of installing a rooftop solar energy system or solar-powered battery storage system through federal tax credits ending 12/31/19. After that, the tax reduction will drop down to 26% for 2020, 22% for 2021, and to zero after 2023: energystar.gov/about/federal_tax_credits

Bay Area SunShares offers yearly discounts on rooftop solar and electric vehicles: bayareasunshares.org

Electric Vehicles
Visit Acterra’s Karl Knapp GoEV Program website for news, events, and money-saving resources on EVs. Sign up for Acterra’s monthly GoEV Newsletter for the latest updates and discounts: acterra.org/goev

PG&E is currently offering a Clean Fuel EV rebate for its customers: pge.com

The fast-moving effects of climate change are now resulting in clear threats to human health and welfare in the Bay Area. At the same time, policy support for climate action at the federal level is at its weakest. There is national consensus that effective climate action at the local level is not only possible but necessary, if we are to both mitigate the worst effects of climate change and help our communities adapt to change that is already taking place.

Acterra works with residents, cities, counties, and businesses on the local impacts of climate change. We provide the knowledge, tools, and opportunities, connecting our community and empowering everyone to take meaningful environmental action.

For more information, contact Acterra: acterra.org • (650) 962-9876 • info@acterra.org

*Income-qualified programs and resources

1BayREN is implemented by local county governments and provides regional-scale energy efficiency programs to homeowners and renters in nine counties: bayrenresidential.org