

Consider Going All-Electric

Healthier Homes. Lower Costs. Cleaner Environment.

Why electrify?

- Help Long Beach meet its CAP (Climate Action & Adaption Plan) goals. All-electric homes have 40-50% lower Greenhouse Gas emissions than homes that run on gas.¹
- Lower utility costs (no need to run on gas lines).
- Healthier indoor air quality. Homes with gas cooking regularly exceed safe limits of Nitrogen Oxides and other pollutants.²
- Kitchens are safer and easier to clean with induction cooking. Pots and pans heat up; the surfaces around them do not.
- Facilitates energy code compliance with heat pumps and heat pump water heaters.
- If you plan to install solar panels, your electric systems can operate on power produced on your roof. If you also install a battery, your solar panels can keep your power on in case of a power outage.

¹ "Residential Building Electrification in California," E3, April 2019

² "Effects of Residential Gas Appliances on Indoor and Outdoor Air Quality and Public Health in California," UCLA Fielding School of Public Health, April 2020

What are the Benefits?

- Less utility and site-prep cost, no gas line or meter.
- Less space dedicated to utility rooms (multifamily and mixed use).
- More flexibility in locating and moving appliances.
- Ideal for ADUs, both site-built and modular.
- Ideal for remodelers who are looking to lower their carbon footprint.

How is it done?

- Heat pump technology moves energy to provide heating, cooling, hot water and clothes drying more efficiently than gas.
- Induction (electric) ranges heat steel and iron pans safely and efficiently.
- A general contractor, mechanical contractor and electrician may be needed to convert to all-electric.
- State and federal rebates may be available.



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DEVELOPMENT



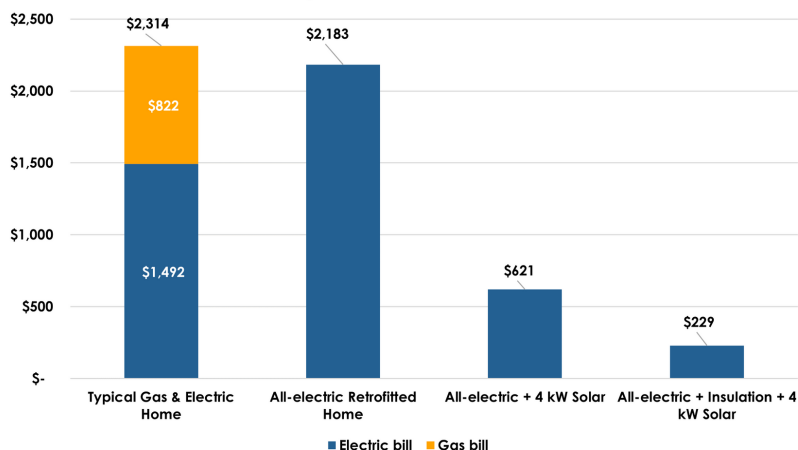
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What are the costs?

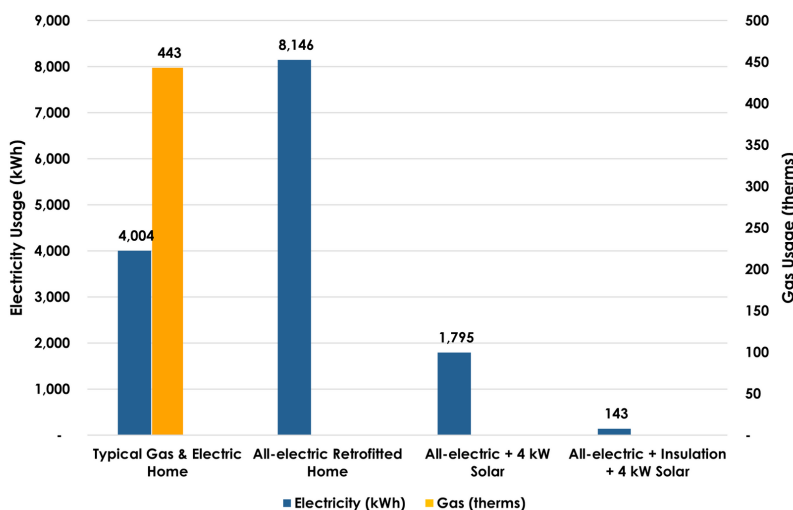
- Base case for typical gas and electric home: 2,100 square feet, one-story three-bedroom, constructed circa 1958, gas furnace and A/C unit, ducts in attic, typical insulation levels and windows, Southern California Edison and Long Beach gas rates as of September 2022.
- Base case for electric home: TOU-D-PRIME rate plan.
- Utility costs in the chart to the right are in terms of cost per year.

Utility Costs: Gas vs Electric



Why am I Just Hearing About This?

- California is committed to all-electric homes and is rolling out new incentive programs all the time.
- Long Beach is committed to meeting CAP goals by lowering emissions from buildings and that requires that we use less fossil fuel in homes.
- While the construction industry changes slowly, we now have a better understanding of the effects of operating our homes on fossil fuels on our environment and our individual health and safety.
- All-electric technologies have improved and are now superior to gas-powered equipment and vehicles.



Helpful Resources

City of Long Beach: longbeach.gov/lbcap

Southern California Edison: sce.com

The Switch is On: switchison.org



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