



A Handy Guide to Home Electrification

For Single-Family Homeowners



[Get started >](#)

Moving towards an all-electric home

California is moving toward all-electric buildings to achieve carbon neutrality by 2045. **Making your home fully electric will have a positive impact on the environment by cutting carbon emissions, while helping you reduce energy use, improve indoor air quality, and live more comfortably.**

Whether you are upgrading one appliance or designing an all-electric home, PG&E is here to support you.

We can help you maximize your cost savings and complete your electrification project as quickly and efficiently as possible.

PG&E is committed to healing the planet

In 2022, the electricity we delivered was 96% greenhouse gas emissions-free. And we're committed to reaching a net zero energy system in 2040—five years ahead of California's current carbon neutrality goal. We aim for this transition to be equitable and viable, leaving no one behind.

- > **Learn more** about home electrification projects
- > **Evaluate** what upgrades you can make
- > **Review** the electrification process
- > **Electrify** your home



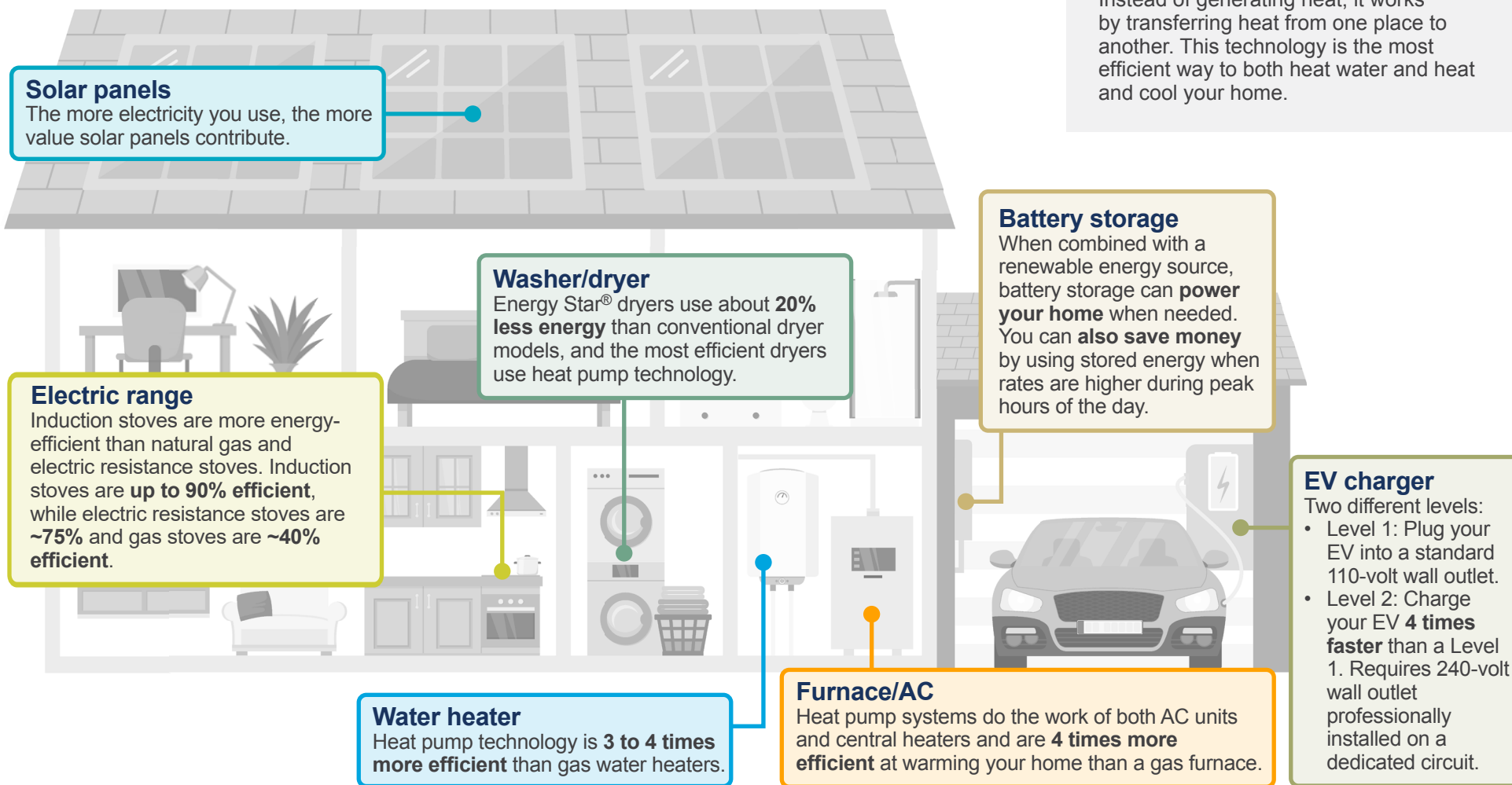
Help with your home electrification project

When you are ready to start a project, there are many helpful resources available. An experienced professional can help you organize your electrification upgrade in manageable steps that build on each other and prevent missteps. A variety of programs and plans can help save you money during your project and beyond. And there are free project management tools, too.



- 1 Licensed contractors** can provide expert guidance and know-how that may lead to potential savings. They may coordinate with essential third parties like city inspectors. And, if they are participating in the [GoGreen Financing Program](#), they can help you set up financing with competitive rates, zero fees and no closing costs.
- 2 Project incentives and rebate programs** that save you money are available from many sources. Check out the [list of resources](#) in the back of this guide.
- 3 Electric rate plan options** are available based on your home energy needs. [Compare plans](#) to pick the best one for you, based on how much electricity you use and when you use it.
- 4 Online tools** are available to help you manage your project, modify your PG&E services and more via [Your Projects Platform](#).

Home electrification options



Did you know heat pump technology is essential to moving to an all-electric home?

Instead of generating heat, it works by transferring heat from one place to another. This technology is the most efficient way to both heat water and heat and cool your home.

Compare and buy energy-efficient appliances at the [Energy Action Guide](#)

What to consider when getting started

Identify the project scope with your contractor



Working with a licensed contractor, you can identify the most cost-effective and energy-efficient appliances for your project, as well as what new technology you want to add.

Once you know exactly what you want to do, your contractor can determine how much power your home will need after your upgrades.

To search for a local contractor by location, specialty and more, visit [Switch is On](#).

Does your electrical panel need an upgrade?



Your home is wired to use a set amount of electricity, and older homes typically have less capacity.

If your home upgrade plans will require more power than you have now, you will have to increase the amount of power coming in. This is called a “service panel upgrade.”

Upgrading your panel will likely cost between \$2,000 - \$6,000, depending on its age. You may be able to get your panel upgrade financed through the [GoGreen Financing Program](#).

Avoid electrical panel upgrades



You may be able to electrify with your existing panel if you select appliances that fit within its limits. Here are some additional options:

Smart panels and combiner panels enable you to manage the load on individual electrical circuits based on your energy needs and pre-determined settings.

Circuit sharing devices enable you to have several outlets in your home share a single circuit. This device automatically prioritizes the load, so your outlets are never asked to provide more than they can deliver.

All-electric baseline cost savings



As part of tiered and most of time-of-use rate plans, energy used within your baseline allowance is billed at the lowest price. The price increases as you use more energy and move beyond the allowance amount during your billing cycle.

For tiered and time-of-use rate plans, the **all-electric baseline** offers a higher baseline for customers that install permanent heating systems (e.g., heat pump space heating). An increase in your baseline quantity will increase the amount of energy that is billed at the lowest rate.

To request an all-electric baseline allowance, call PG&E at [1-800-743-5000](tel:1-800-743-5000).

Choose the rate plan that best fits your household

As you transition from gas to electric appliances, your overall electricity usage will rise. However, your total energy expenses may fall due to the increased efficiency of electric appliances or electric vehicles versus older fossil fuel costs.

This is a good time to move to a rate plan that best suits your new needs. PG&E offers a variety of rate plans to help you maximize the benefits of moving to an all-electric home.



[Review rate plan options for your electrification project >](#)

Rate plan options for your electrification project

Electric Home Rate Plan (E-ELEC)

Your best option if you have one or more of these technologies:

- Electric vehicle (EV) charger
- Battery storage
- Electric heat pump for water heating or climate control

Time-of-Use Rate Plans

These rate plans offer lower prices when renewable energy is more plentiful and demand is low.

You can cut costs by shifting your energy use to partial-peak or off-peak hours of the day, when rates are lower.

Electric Vehicle (EV) Rate Plans

If you own an EV and charge at home, you are eligible for rate plans which help you lower your energy costs:

Home Charging EV2-A: Combines your vehicle's electricity usage with your home's electricity usage.

EV-B: Separates your vehicle's electricity usage from those of your home and requires a second meter.

Both EV rate plans are Time-of-Use, so there are different prices for electricity depending on the time of day.

Heat pump appliances also qualify for these rates.

[Compare electric rate plans in your online account and find the best one for you >](#)

Who's responsible for each step?

There are three key roles



You: Project recipient

Provide overall direction, select new appliances, and pay for behind-the-meter costs, as well as front-of-the-meter costs where applicable.



Your contractor: Project developer, Installer

Provide expertise and management, create documentation, determine the right panel size, attain necessary permits, and complete project installation.



PG&E: Engineering, review, and approval

Ensure you safely get the energy you need, estimate all front-of-the-meter costs, perform all front-of-the-meter construction, and handle disconnect/reconnect services.

What these terms mean

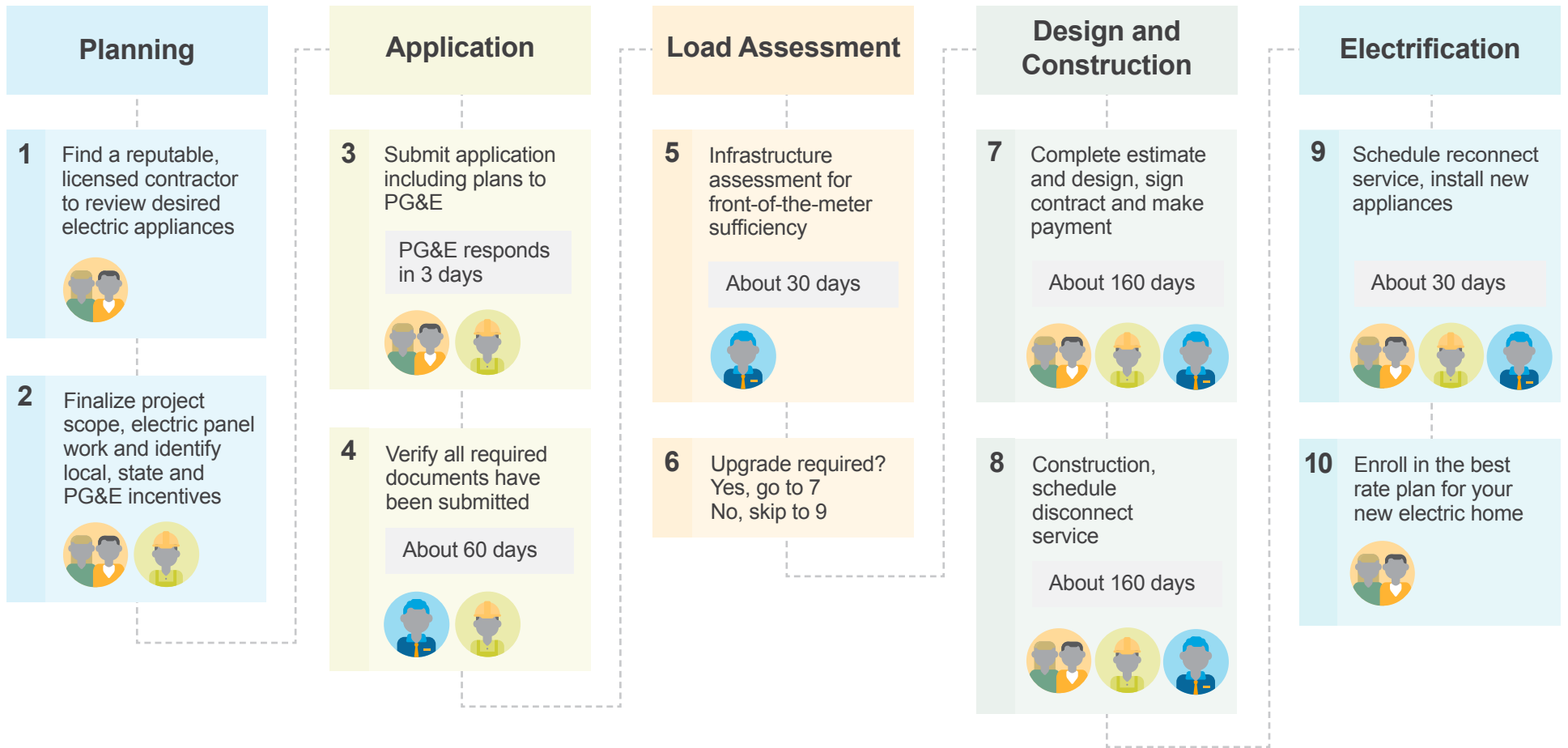
Front-of-the-meter

refers to all the wiring and other infrastructure required to bring power to your house. PG&E will cover \$3,225 worth of expenses per meter to enable your electrification project. Any amount exceeding this allowance would be your responsibility.

Behind-the-meter

refers to all wiring within your home. You are responsible for any upgrades needed here to facilitate your electrification project.

Lifecycle of a home electrification project



Timelines may vary based on project specifications.

How to disconnect your gas service once you've gone all-electric

After your home has converted to all-electric, you can safely stop gas services by submitting an application to modify your services.

PG&E will ensure that all gas infrastructure is safely depressurized and removed from your home.

You'll also eliminate the minimum daily charge to remain connected to the gas system. It's about 13 cents a day.

If you've had gas service for more than 10 years, it'll be discontinued at no cost to you. If less than 10 years, we will provide an estimate of your costs after you submit an application for removal.

Apply online at yourprojects-pge.com

You can also speak to a representative at **1-877-743-7782**



Ready to get started?

Here are your next steps:

- 1 Review new electric appliances.** PG&E's Energy Action Guide can help you find the latest energy-efficient options, all in one place.
- 2 Find your contractor.** They will be your go-to resource, so it's important to find someone you work well with.

[Browse appliances at the Energy Action Guide >](#)

[Find a licensed contractor >](#)

[Submit your project application >](#)



Quick resources

Contractors

Find a licensed contractor near you:

switchison.cleanenergyconnection.org

Check your contractor's license:

cslb.ca.gov

Learn more about GoGreen Financing and find participating contractors:

gogreenfinancing.com/residential

Planning

Watt Diet Calculator: Avoid electric panel upgrades by selecting efficient products and using load sharing devices with this tool.

redwoodenergy.net/watt-diet-calculator

Electric Rate Plans

Review your rate plan choices and find the best option for your household:

pge.com/rateanalysis

Learn more about:

- Baseline Allowance
pge.com/baseline
- Electric Home Rate Plan (E-ELEC)
pge.com/electrichome
- Time-of-Use Rate Plans
pge.com/touinfo
- Electric Vehicle Rate Plans
ev.pge.com/rates

EV Resources from PG&E

EV Savings Calculator: Estimate and compare costs, savings and more.
ev.pge.com

EV Charging: Get help with choosing and installing the right charging station for your home.
pge.com/evcharging

EV Rate Plans: Identify the lowest cost electric rate for your EV.
ev.pge.com/rates

Incentives

Check with your contractor to learn more about latest incentives.

Switch is On: Use this tool to find incentives and programs available in your area.
incentives.switchison.org

Golden State Rebates: Get instant savings on energy-efficiency products.
goldenstater rebates.com

The California Energy-Smart Homes Program: Take advantage of incentives offered for residential new construction and alterations.
caenergysmarthomes.com

EV Resources and Rewards from the California Air Resource Board: Review resources available from local retailers to learn more about the benefits of owning an EV and California Clean Fuel Rewards.
cleanfuelreward.com

